

Structural Index of (Anti)aromaticity for Fused Polycyclic Hydrocarbons in the Triplet and Singlet States: HOMA or HOMER?

Marija Baranac-Stojanović*

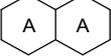
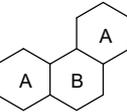
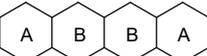
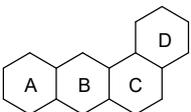
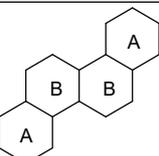
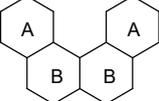
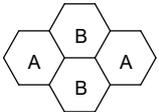
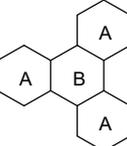
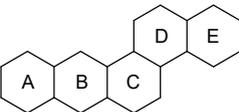
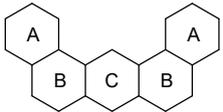
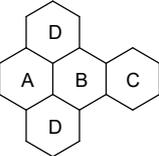
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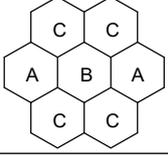
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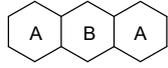
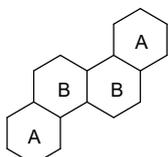
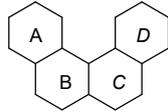
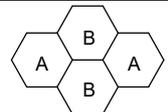
Table S1. Symmetry point group (PG), HOMA, HOMER, Shannon aromaticity index (SA), electron density of delocalized bond per atom (EDDB_p, in e), multicenter index (MCI) and NICS(1)_{zz} (in ppm) calculated for S₀ state of given polycycles at the CAM-B3LYP/6-311+G(d,p) level of theory. "Peri" means molecular perimeter.

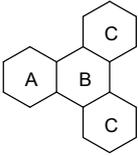
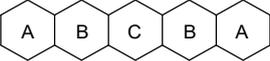
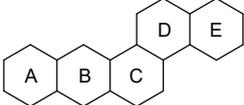
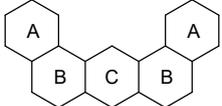
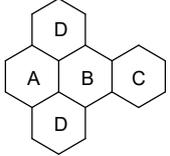
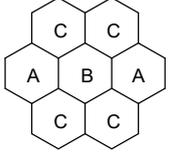
Compound	PG	HOMA	HOMER	SA	EDDB _p	MCI	NICS(1) _{zz}
	D _{2h}	A: 0.819 peri: 0.835	-0.858 -1.265	0.0008 0.0009	0.5039 0.5302	0.071	-29.1 /
	D _{2h}	A: 0.646 B: 0.829 peri: 0.767	-1.022 -0.256 -1.265	0.0017 0.0005 0.0013	0.3411 0.5404 0.4310	0.050 0.053	-25.3 -35.3 /
	C _{2v}	A: 0.910 B: 0.503 peri: 0.754	-0.862 -0.502 -1.077	0.0004 0.0018 0.0012	0.6574 0.2354 0.5224	0.086 0.029	-29.1 -19.9 /
	D _{2h}	A: 0.529 B: 0.745 peri: 0.746	-1.177 -0.269 -1.295	0.0022 0.0008 0.0014	0.2774 0.4443 0.4154	0.041 0.044	-22.0 -35.0 /
	C _s	A: 0.735 B: 0.850 C: 0.317 D: 0.939 peri: 0.719	-0.940 -0.352 -0.627 -0.866 -1.166	0.0013 0.0004 0.0024 0.0003 0.0014	0.4020 0.5326 0.1945 0.7125 0.4651	0.058 0.056 0.021 0.093	-26.7 -32.4 -13.8 -28.3 /
	C _{2h}	A: 0.885 B: 0.623 peri: 0.715	-0.863 -0.463 -0.971	0.0005 0.0014 0.0014	0.6065 0.3206 0.4916	0.082 0.039	-28.6 -22.1 /
	C _{2v} ^a	A: 0.837 B: 0.421 peri: 0.607	-0.858 -0.741 -1.305	0.0008 0.0025 0.0021	0.6243 0.3181 0.5048	0.082 0.040	-29.3 -22.4 /
	D _{2h}	A: 0.921 B: 0.592 peri: 0.761	-0.483 -0.364 -1.213	0.0002 0.0014 0.0012	0.6684 0.2861 0.4863	0.071 0.029	-35.7 -15.8 /
	D _{3h}	A: 0.940 B: 0.162 peri: 0.694	-0.950 0.186 -0.948	0.0003 0.0014 0.0014	0.7221 0.1366 0.5702	0.096 0.013	-26.4 -9.4 /
	D _{2h} ^b	A: 0.454 B: 0.663 C: 0.727 peri: 0.747	-1.284 -0.365 -0.156 -1.285	0.0026 0.0011 0.0007 0.0014	0.2476 0.3608 0.4158 0.4199	0.036 0.036 0.037	-19.3 -32.9 -37.7 /
	C _s	A: 0.709 B: 0.856 C: 0.436 D: 0.669 E: 0.870 peri: 0.695	-0.969 -0.308 -0.614 -0.460 -0.862 -1.050	0.0014 0.0004 0.0021 0.0013 0.0006 0.0015	0.3789 0.5379 0.2290 0.3496 0.5841 0.4415	0.055 0.056 0.027 0.044 0.079	-26.1 -32.9 -16.3 -22.6 -28.3 /
	C _{2v}	A: 0.928 B: 0.404 C: 0.903 peri: 0.687	-0.858 -0.567 -0.394 -1.096	0.0003 0.0022 0.0003 0.0015	0.6943 0.2128 0.6153 0.4743	0.091 0.024 0.065	-28.2 -15.9 -31.0 /
	C _{2v}	A: 0.564 B: 0.287 C: 0.939 D: 0.922 peri: 0.713	-0.418 0.432 -0.949 -0.599 -1.109	0.0016 0.0010 0.0003 0.0003 0.0014	0.2708 0.2013 0.7164 0.6861 0.5288	0.029 0.013 0.094 0.076	-16.3 -5.7 -25.4 -32.4

	D_{2h}^c	A: 0.793 B: 0.679 C: 0.793 peri: 0.759	-0.289 0.822 -0.829 -0.973	0.0007 0.0000 0.0007 0.0011	0.4203 0.3707 0.4204 0.4171	0.045 0.018 0.045	-30.5 -5.4 -30.5 /
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^a i 155.6 cm^{-1} (HH steric interaction). ^b RHF \rightarrow UHF. ^c i 111.0 cm^{-1} (out-of-plane central ring).

Table S2. Symmetry point group (PG), spin density at carbon atoms (SD), HOMA, HOMER, Shannon aromaticity index (SA), electron density of delocalized bond per atom (EDDB_P, in e), multicenter index (MCI) and NICS(1)_{zz} (in ppm) calculated for T₁ state of given polycycles at the UCAM-B3LYP/6-311+G(d,p) (normal font) and M06-2X/6-311+G(d,p) (*italic*) levels of theory. "Peri" means molecular perimeter. NICS is calculated only with UCAM-B3LYP.

Compound	PG	SD	HOMA	HOMER	SA	EDDB _P	MCI	NICS(1) _{zz}
	D_{2h}	A: 0.91 <i>0.93</i> peri: 1.88 <i>1.89</i>	0.540 <i>0.525</i> 0.638 <i>0.623</i>	-0.615 <i>-0.469</i> -0.911 <i>-0.735</i>	0.0018 <i>0.0017</i> 0.0018 <i>0.0017</i>	0.2397 <i>0.2509</i> 0.3467 <i>0.3552</i>	0.031 <i>0.031</i>	26.1 /
	D_{2h}	A: 0.50 <i>0.51</i> B: 0.95 <i>1.00</i> peri: 1.89 <i>1.90</i>	0.877 <i>0.874</i> 0.530 <i>0.481</i> 0.835 <i>0.816</i>	-0.716 <i>-0.518</i> 0.962 <i>0.984</i> -0.480 <i>-0.303</i>	0.0005 <i>0.0005</i> 0.0000 <i>0.0000</i> 0.0007 <i>0.0006</i>	0.5560 <i>0.5762</i> 0.3565 <i>0.3567</i> 0.5572 <i>0.5692</i>	0.069 <i>0.071</i> 0.011 <i>0.011</i>	-5.1 25.9 /
	C_{2v}	A: 0.51 <i>0.52</i> B: 1.14 <i>1.11</i> peri: 1.90 <i>1.88</i>	0.774 <i>0.760</i> -0.101 <i>-0.104</i> 0.560 <i>0.558</i>	-0.692 <i>-0.525</i> -0.818 <i>-0.704</i> -1.219 <i>-1.021</i>	0.0009 <i>0.0009</i> 0.0031 <i>0.0029</i> 0.0021 <i>0.0020</i>	0.5168 <i>0.5213</i> 0.1325 <i>0.1395</i> 0.4404 <i>0.4456</i>	0.054 <i>0.055</i> 0.007 <i>0.007</i>	8.5 36.6 /
	D_{2h}	A: 0.34 <i>0.35</i> B: 0.65 <i>0.67</i> peri: 1.90 <i>1.90</i>	0.948 <i>0.932</i> 0.544 <i>0.525</i> 0.879 <i>0.871</i>	-0.679 <i>-0.458</i> 0.267 <i>0.341</i> -0.492 <i>-0.310</i>	0.0001 <i>0.0002</i> 0.0008 <i>0.0008</i> 0.0004 <i>0.0004</i>	0.7165 <i>0.7081</i> 0.2650 <i>0.2829</i> 0.6289 <i>0.6407</i>	0.082 <i>0.080</i> 0.018 <i>0.019</i>	-17.7 8.9 /
	C_s	A: 0.57 <i>0.55</i> B: 1.00 <i>1.05</i> C: 0.39 <i>0.39</i> D: 0.17 <i>0.19</i> peri: 1.90 <i>1.91</i>	0.829 <i>0.846</i> 0.544 <i>0.501</i> 0.820 <i>0.798</i> 0.744 <i>0.717</i> 0.769 <i>0.753</i>	-0.721 <i>-0.529</i> 0.770 <i>0.847</i> -0.114 <i>0.035</i> -0.890 <i>-0.707</i> -0.554 <i>-0.376</i>	0.0007 <i>0.0006</i> 0.0003 <i>0.0002</i> 0.0005 <i>0.0004</i> 0.0012 <i>0.0012</i> 0.0010 <i>0.0009</i>	0.4602 <i>0.5109</i> 0.3146 <i>0.3262</i> 0.5606 <i>0.5595</i> 0.4408 <i>0.4331</i> 0.4936 <i>0.5056</i>	0.061 <i>0.065</i> 0.012 <i>0.011</i> 0.050 <i>0.050</i> 0.061 <i>0.060</i>	4.8 35.1 -14.3 -21.5 /
	C_{2h}^a	A: 0.29 <i>0.29</i> B: 0.93 <i>0.91</i> peri: 1.91 <i>1.92</i>	0.944 <i>0.935</i> 0.014 <i>0.007</i> 0.632 <i>0.624</i>	-0.770 <i>-0.557</i> -0.847 <i>-0.717</i> -1.106 <i>-0.898</i>	0.0002 <i>0.0002</i> 0.0030 <i>0.0028</i> 0.0017 <i>0.0017</i>	0.7077 <i>0.7099</i> 0.2279 <i>0.2347</i> 0.4908 <i>0.5221</i>	0.086 <i>0.086</i> 0.009 <i>0.010</i>	-7.0 32.4 /
	C_{2v}/C_s^b	A: 0.38 <i>0.47</i> B: 0.95 <i>1.06</i> C: 0.70 <i>0.70</i> D: 0.32 <i>0.32</i> peri: 1.92 <i>1.92</i>	0.838 <i>0.781</i> -0.343 <i>-0.245</i> -0.248 <i>-0.248</i> 0.823 <i>0.823</i> 0.678 <i>0.590</i>	-0.800 <i>-0.602</i> -1.520 <i>-1.163</i> -1.307 <i>-0.531</i> -1.087 <i>-1.080</i>	0.0008 <i>0.0009</i> 0.0043 <i>0.0038</i> 0.0041 <i>0.0007</i> 0.0017 <i>0.0021</i>	0.6023 <i>0.5168</i> 0.2224 <i>0.2559</i> 0.1719 <i>0.6553</i> 0.5248 <i>0.4655</i>	0.076 <i>0.068</i> 0.008 <i>0.011</i> 0.010 <i>0.075</i>	3.4 40.0 /
	D_{2h}	A: 0.68 <i>0.69</i> B: 0.33	0.586 <i>0.562</i> 0.836	0.021 <i>0.096</i> -0.230	0.0010 <i>0.0010</i> 0.0005	0.3634 <i>0.3712</i> 0.5019	0.022 <i>0.022</i> 0.050	25.7 -5.4

		0.34 peri: 1.90 1.90	0.821 0.738 0.725	-0.048 -0.734 -0.547	0.0004 0.0011 0.0011	0.5116 0.4305 0.4418	0.050	/
	C_{2v}/C_s^c	A: 0.16 0.11 B: 0.81 0.72 C: 0.88 0.90 peri: 1.92 1.92	0.866 0.971 0.463 -0.296 0.808 0.308 0.779 0.531	-0.403 -0.703 0.727 -0.699 -0.371 -1.145 -0.350 -1.198	0.0005 0.0001 0.0004 0.0028 0.0006 0.0028 0.0007 0.0022	0.7610 0.7895 0.1349 0.1097 0.3449 0.3004 0.4285 0.3984	0.013 0.037 0.040 0.039 0.032 0.020	-0.2 53.6 53.4 /
	D_{2h}	A: 0.23 0.24 B: 0.44 0.45 C: 0.63 0.68 peri: 1.90 1.91	0.912 0.894 0.640 0.625 0.481 0.454 0.872 0.866	-0.707 -0.494 -0.204 -0.067 0.603 0.623 -0.584 -0.400	0.0003 0.0004 0.0011 0.0010 0.0005 0.0005 0.0005 0.0005	0.6479 0.6392 0.2950 0.3134 0.2823 0.2896 0.5804 0.5931	0.078 0.076 0.028 0.029 0.011 0.012	-23.1 -7.1 9.8 /
	C_s	A: 0.52 0.51 B: 0.95 0.98 C: 0.43 0.44 D: 0.23 0.23 E: 0.04 0.05 peri: 1.90 1.91	0.869 0.837 0.568 0.527 0.826 0.799 0.395 0.359 0.933 0.923 0.743 0.728	-0.709 -0.510 0.894 0.936 -0.175 -0.14 -0.474 -0.369 -0.862 -0.642 -0.634 -0.456	0.0005 0.0005 0.0001 0.0001 0.0005 0.0005 0.0021 0.0021 0.0003 0.0003 0.0011 0.0011	0.5258 0.5564 0.3486 0.3558 0.5760 0.5720 0.2318 0.2382 0.6951 0.6956 0.5085 0.5183	0.066 0.069 0.012 0.012 0.052 0.052 0.024 0.024 0.090 0.090	0.3 32.3 -8.4 -11.4 -27.2 /
	C_{2v}	A: 0.21 0.21 B: 0.41 0.41 C: 1.13 1.15 peri: 1.91 1.91	0.691 0.677 0.830 0.804 0.527 0.485 0.731 0.713	-0.945 -0.752 -0.131 0.007 0.729 0.759 -0.604 -0.436	0.0015 0.0014 0.0004 0.0004 0.0004 0.0004 0.0012 0.0011	0.3927 0.3986 0.5617 0.5603 0.2903 0.2970 0.4713 0.4774	0.054 0.055 0.050 0.049 0.010 0.011	-17.3 -7.6 53.0 /
	C_{2v}	A: 0.56 0.52 B: 0.22 0.24 C: 0.12 0.15 D: 0.65 0.67 peri: 1.90 1.90	0.550 0.571 0.695 0.658 0.780 0.755 0.613 0.589 0.700 0.690	-0.338 -0.162 0.521 0.638 -0.910 -0.711 -0.233 -0.107 -0.745 -0.574	0.0015 0.0013 0.0003 0.0003 0.0011 0.0011 0.0012 0.0012 0.0013 0.0013	0.2729 0.3128 0.4054 0.4211 0.4828 0.4731 0.3681 0.3755 0.4155 0.4255	0.027 0.030 0.033 0.033 0.065 0.064 0.027 0.028	12.7 -17.0 -26.3 26.7 /
	D_{2h}^d	A: 0.49 0.39 B: 0.13 0.15 C: 0.42 0.47 peri: 1.80 1.79	0.260 0.723 0.857 0.823 0.734 0.488 0.658 0.662	-0.763 -0.107 0.289 0.411 -0.022 -0.121 -1.246 -0.974	0.0027 0.0008 0.0001 0.0001 0.0006 0.0014 0.0018 0.0016	0.1782 0.3709 0.5126 0.4894 0.4179 0.2688 0.4099 0.3303	0.013 0.037 0.040 0.039 0.032 0.020	57.6 3.3 44.7 /

^a i 45.0/53.3 cm^{-1} (out-of-plane due to HH steric interactions). ^b i 179.2/210.3 cm^{-1} (HH steric interaction). ^c Non-planar. ^d i 294.6/588.9 cm^{-1} (out-of-plane central ring), i 170.7/363.5 cm^{-1} (bond lengths).

Table S3. Symmetry point group (PG), HOMA, HOMER, Shannon aromaticity index (SA), electron density of delocalized bond per atom (EDDB_p, in e), multicenter index (MCI) and NICS(1)_{zz} (in ppm) calculated for S₀ state of given polycycles at the CAM-B3LYP/6-311+G(d,p) level of theory. "Peri" means molecular perimeter.

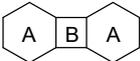
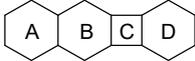
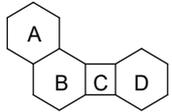
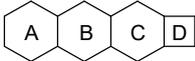
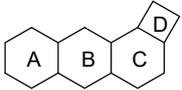
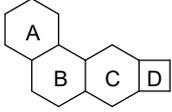
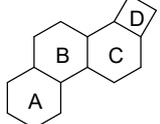
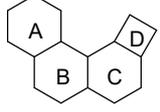
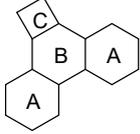
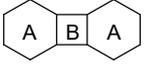
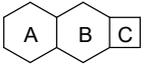
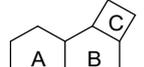
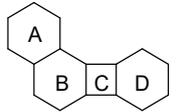
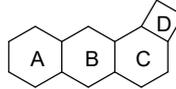
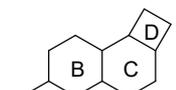
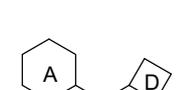
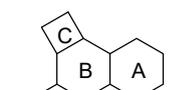
Compound	PG	HOMA	HOMER	SA	EDDB _p	MCI	NICS(1) _{zz}
	C _{2v}	A: 0.679 B: -1.499 peri: -0.430	-2.073 -4.639 -4.043	0.0016 0.0116 0.0080	0.3878 0.0221 0.2145	0.090 0.015	-8.1 46.5 /
	D _{2h}	A: 0.858 B: -0.954 peri: 0.270	-1.425 -1.630 -2.151	0.0006 0.0063 0.0041	0.6399 0.0353 0.4752	0.104 0.016	-14.1 36.6 /
	C _{2v}	A: 0.932 B: 0.172 C: -1.006 peri: 0.008	-0.766 -2.390 -2.921 -2.833	0.0009 0.0038 0.0079 0.0052	0.7370 0.1490 0.0444 0.3499	0.094 0.032 0.021	-25.2 -2.9 36.7 /
	C _s	A: 0.573 B: 0.828 C: -1.949 peri: -0.138	-1.042 -1.049 -6.442 -3.145	0.0020 0.0009 0.0154 0.0063	0.3246 0.6487 0.0227 0.3216	0.046 0.074 0.011	-19.4 -19.1 61.9 /
	C _{2v}	A: 0.893 B: 0.377 C: -0.820 D: 0.915 peri: 0.401	-0.750 -1.780 -0.967 -1.212 -1.925	0.0005 0.0027 0.0044 0.0003 0.0034	0.6753 0.2307 0.0468 0.7184 0.4707	0.086 0.040 0.017 0.105	-26.2 -10.4 30.2 -16.6 /
	C _s	A: 0.708 B: 0.876 C: -1.033 D: 0.799 peri: 0.364	-0.886 -0.627 -2.289 -1.604 -1.799	0.0014 0.0006 0.0082 0.0009 0.0035	0.4155 0.6230 0.0291 0.5446 0.4183	0.059 0.069 0.017 0.099	-23.5 -21.0 45.5 -9.1 /
	C _{2v}	A: 0.798 B: 0.765 C: -0.086 D: -0.836 peri: 0.265	-0.866 -0.493 -2.735 -2.351 -2.406	0.0009 0.0009 0.0049 0.0066 0.0042	0.4674 0.4488 0.1246 0.0679 0.3114	0.063 0.052 0.020 0.023	-26.4 -25.6 -0.3 30.4 /
	C _s	A: 0.522 B: 0.682 C: 0.791 D: -2.201 peri: 0.046	-1.183 -0.297 -0.899 -7.437 -2.649	0.0023 0.0010 0.0012 0.0174 0.0053	0.2761 0.4286 0.5944 0.0234 0.3721	0.041 0.042 0.063 0.009	-19.3 -28.5 -23.4 68.5 /
	C _s	A: 0.849 B: 0.686 C: 0.352 D: -1.113 peri: 0.163	-0.852 -0.314 -2.222 -3.370 -2.335	0.0007 0.0011 0.0031 0.0090 0.0046	0.5578 0.3904 0.1929 0.0319 0.3364	0.076 0.046 0.045 0.019	-27.9 -23.0 -3.4 41.8 /
	C _s	A: 0.938 B: 0.219 C: 0.768 D: -1.704 peri: 0.055	-0.859 -0.684 -1.401 -5.572 -2.603	0.0003 0.0027 0.0012 0.0137 0.0052	0.7170 0.1874 0.5534 0.0230 0.3554	0.093 0.019 0.077 0.013	-27.4 -10.5 -14.2 57.0 /
	C _s	A: 0.949 B: 0.274 C: 0.773 D: -1.726 peri: 0.076	-0.870 -0.585 -1.327 -5.558 -2.567	0.0002 0.0025 0.0011 0.0135 0.0050	0.7204 0.1925 0.5462 0.0243 0.3610	0.093 0.019 0.078 0.014	-27.9 -10.1 -14.1 58.7 /
	C _{2v}	A: 0.812 B: 0.620 C: -2.495 peri: -0.007	-0.785 -0.484 -8.670 -2.564	0.0009 0.0021 0.0200 0.0055	0.5434 0.4249 0.0243 0.4160	0.071 0.037 0.007	-26.7 -21.1 64.5 /

Table S4. Symmetry point group (PG), spin density at carbon atoms (SD), HOMA, HOMER, Shannon aromaticity index (SA), electron density of delocalized bond per atom (EDDB_p, in e), multicenter index (MCI) and NICS(1)_{zz} (in

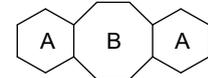
ppm) calculated for T₁ state of given polycycles at the UCAM-B3LYP/6-311+G(d,p) (normal font) and M06-2X/6-311+G(d,p) (*italic*) levels of theory. "Peri" means molecular perimeter. NICS is calculated only with UCAM-B3LYP.

Compound	PG	SD	HOMA	HOMER	SA	EDDB _p	MCI	NICS(1) _{zz}
	C _{2v}	A: 0.89 <i>0.91</i> B: 1.44 <i>1.42</i> peri: 1.90 <i>1.90</i>	0.764 <i>0.730</i> 0.037 <i>0.020</i> 0.615 <i>0.618</i>	-0.568 <i>-0.396</i> 0.428 <i>0.409</i> -0.400 <i>-0.244</i>	0.0006 <i>0.0006</i> 0.0008 <i>0.0007</i> 0.0015 <i>0.0013</i>	0.4534 <i>0.4534</i> 0.1765 <i>0.1670</i> 0.5078 <i>0.5177</i>	0.044 <i>0.042</i> 0.089 <i>0.089</i>	-23.6 -25.2 /
	D _{2h}	A: 0.97 <i>0.97</i> B: 1.08 <i>1.05</i> peri: 1.95 <i>1.95</i>	0.515 <i>0.490</i> -0.117 <i>-0.166</i> 0.776 <i>0.771</i>	-0.918 <i>-0.761</i> 0.274 <i>0.180</i> -0.730 <i>-0.546</i>	0.0016 <i>0.0015</i> 0.0001 <i>0.0002</i> 0.0012 <i>0.0011</i>	0.2795 <i>0.2849</i> 0.0764 <i>0.0691</i> 0.4386 <i>0.4522</i>	0.027 <i>0.026</i> 0.057 <i>0.055</i>	-19.4 -35.6 /
	C _{2v}	A: 0.33 <i>0.35</i> B: 0.69 <i>0.71</i> C: 1.32 <i>1.30</i> peri: 1.90 <i>1.91</i>	0.662 <i>0.627</i> 0.522 <i>0.471</i> -0.375 <i>-0.341</i> 0.545 <i>0.571</i>	-0.894 <i>-0.732</i> -0.544 <i>-0.429</i> -0.491 <i>-0.407</i> -1.062 <i>-0.829</i>	0.0015 <i>0.0016</i> 0.0012 <i>0.0012</i> 0.0020 <i>0.0012</i> 0.0022 <i>0.0018</i>	0.4159 <i>0.4056</i> 0.3621 <i>0.3598</i> 0.0767 <i>0.0753</i> 0.4771 <i>0.4838</i>	0.055 <i>0.053</i> 0.026 <i>0.024</i> 0.057 <i>0.060</i>	-25.1 -28.8 -23.2 /
	C _s	A: 0.27 <i>0.29</i> B: 0.90 <i>0.90</i> C: 1.43 <i>1.41</i> peri: 1.92 <i>1.92</i>	0.906 <i>0.887</i> 0.571 <i>0.539</i> 0.312 <i>0.282</i> 0.737 <i>0.734</i>	-0.682 <i>-0.477</i> -0.008 <i>0.079</i> 0.871 <i>0.841</i> -0.345 <i>-0.199</i>	0.0004 <i>0.0004</i> 0.0008 <i>0.0008</i> 0.0001 <i>0.0001</i> 0.0011 <i>0.0010</i>	0.6696 <i>0.6598</i> 0.3073 <i>0.3153</i> 0.3016 <i>0.2892</i> 0.5419 <i>0.5510</i>	0.081 <i>0.079</i> 0.019 <i>0.019</i> 0.110 <i>0.107</i>	-26.9 -12.7 -26.0 /
	C _s /C _{2v}	A: 0.35 <i>0.39</i> B: 0.70 <i>0.72</i> C: 0.96 <i>0.93</i> D: 1.11 <i>1.06</i> peri: 1.95 <i>1.95</i>	0.542 <i>0.715</i> 0.427 <i>0.470</i> -0.342 <i>0.126</i> 0.265 <i>0.770</i> 0.718 <i>0.787</i>	-1.035 <i>-0.447</i> -0.706 <i>-0.006</i> -0.201 <i>0.918</i> -1.370 <i>-0.197</i> -1.064 <i>-0.294</i>	0.0021 <i>0.0010</i> 0.0016 <i>0.0009</i> 0.0006 <i>0.0003</i> 0.0003 <i>0.0003</i> 0.0015 <i>0.0008</i>	0.3385 <i>0.3717</i> 0.3159 <i>0.3116</i> 0.0752 <i>0.0608</i> 0.2196 <i>0.3071</i> 0.4118 <i>0.5248</i>	0.060 <i>0.044</i> 0.012 <i>0.018</i> 0.041 <i>0.044</i> 0.031 <i>0.020</i>	-4.7 18.1 15.9 11.9 /
	C _s	A: 0.33 <i>0.33</i> B: 1.02 <i>0.98</i> C: 1.02 <i>1.00</i> D: 0.68 <i>0.72</i> peri: 1.95 <i>1.95</i>	0.916 <i>0.905</i> 0.258 <i>0.279</i> -0.104 <i>-0.100</i> 0.801 <i>0.748</i> 0.801 <i>0.800</i>	-0.682 <i>-0.469</i> -0.419 <i>-0.268</i> 0.440 <i>0.459</i> -0.585 <i>-0.418</i> -0.632 <i>-0.438</i>	0.0003 <i>0.0003</i> 0.0016 <i>0.0014</i> 0.0003 <i>0.0002</i> 0.0005 <i>0.0006</i> 0.0010 <i>0.0009</i>	0.7101 <i>0.7132</i> 0.2562 <i>0.2624</i> 0.1763 <i>0.1642</i> 0.5067 <i>0.4789</i> 0.5724 <i>0.5800</i>	0.083 <i>0.082</i> 0.011 <i>0.012</i> 0.050 <i>0.052</i> 0.054 <i>0.049</i>	-22.0 3.5 -24.5 -27.3 /
	C _{2v} ^a	A: 0.63 <i>0.59</i> B: 0.99 <i>1.06</i> C: 0.37 <i>0.39</i> D: 0.20 <i>0.20</i> peri: 1.90 <i>1.01</i>	0.758 <i>0.792</i> 0.536 <i>0.484</i> 0.755 <i>0.773</i> -1.452 <i>-1.461</i> 0.145 <i>0.139</i>	-0.736 <i>-0.552</i> 0.720 <i>0.815</i> -1.324 <i>-1.016</i> -4.630 <i>-4.588</i> -1.831 <i>-1.627</i>	0.0011 <i>0.0007</i> 0.0003 <i>0.0002</i> 0.0011 <i>0.0010</i> 0.0117 <i>0.0117</i> 0.0043 <i>0.0041</i>	0.3758 <i>0.4402</i> 0.2992 <i>0.3126</i> 0.4642 <i>0.4953</i> 0.0269 <i>0.0263</i> 0.3379 <i>0.3561</i>	0.053 <i>0.059</i> 0.013 <i>0.012</i> 0.066 <i>0.066</i> 0.017 <i>0.017</i>	8.6 32.5 0.1 33.7 /

	C_s	A: 0.13 0.14 B: 0.27 0.28 C: 0.90 0.91 D: 1.35 1.32 peri: 1.92 1.92	0.821 0.797 0.709 0.690 0.413 0.396 0.335 0.310 0.756 0.752	-0.800 -0.611 -0.382 -0.223 -0.091 -0.011 0.844 0.841 -0.548 -0.383	0.0008 0.0008 0.0010 0.0010 0.0012 0.0011 0.0001 0.0001 0.0011 0.0010	0.5086 0.5005 0.4174 0.4239 0.2867 0.2930 0.3218 0.3172 0.4940 0.5045	0.067 0.066 0.044 0.043 0.013 0.014 0.105 0.103	-27.2 -25.2 -3.8 -21.7
	C_s	A: 0.09 0.10 B: 0.34 0.36 C: 0.75 0.77 D: 1.33 1.31 peri: 1.91 1.92	0.933 0.923 0.314 0.279 0.605 0.554 -0.945 -0.087 0.591 0.598	-0.840 -0.623 -0.502 -0.393 -0.513 -0.389 0.096 0.115 -0.905 -0.706	0.0003 0.0003 0.0023 0.0022 0.0010 0.0010 0.0012 0.0010 0.0019 0.0017	0.6960 0.6954 0.2377 0.2453 0.3814 0.3748 0.1085 0.1047 0.4750 0.4839	0.089 0.089 0.022 0.022 0.029 0.026 0.071 0.072	-27.6 -13.0 -26.2 -25.8
	C_s	A: 0.08 0.09 B: 0.23 0.25 C: 0.88 0.89 D: 1.44 1.41 peri: 1.92 1.92	0.864 0.853 0.626 0.594 0.672 0.641 0.259 0.233 0.664 0.659	-0.824 -0.621 -0.289 -0.148 -0.079 0.044 0.775 0.744 -0.519 -0.367	0.0006 0.0006 0.0013 0.0013 0.0007 0.0006 0.0003 0.0003 0.0015 0.0013	0.5920 0.5966 0.3458 0.3494 0.3475 0.3541 0.2490 0.2349 0.4751 0.4838	0.079 0.079 0.039 0.038 0.026 0.025 0.104 0.102	-28.0 -21.6 -16.1 -26.2
	C_s	A: 0.07 0.08 B: 0.25 0.27 C: 0.88 0.88 D: 1.42 1.39 peri: 1.91 1.92	0.885 0.877 0.684 0.660 0.625 0.594 0.248 0.214 0.700 0.697	-0.830 -0.624 -0.176 -0.032 -0.152 -0.040 0.803 0.755 -0.463 -0.306	0.0009 0.0005 0.0010 0.0010 0.0008 0.0008 0.0001 0.0001 0.0013 0.0011	0.7658 0.6031 0.3694 0.3721 0.3364 0.3435 0.2503 0.2368 0.4879 0.4967	0.079 0.079 0.039 0.038 0.025 0.024 0.104 0.101	-28.8 -21.5 -16.5 -26.3
	C_{2v}	A: 0.22 0.23 B: 0.82 0.82 C: 1.48 1.46 peri: 1.92 1.93	0.909 0.894 0.296 0.265 0.430 0.410 0.701 0.694	-0.723 -0.527 0.389 0.431 0.988 0.984 -0.499 -0.346	0.0004 0.0004 0.0010 0.0009 0.0001 0.0000 0.0013 0.0012	0.6953 0.6898 0.2249 0.2291 0.3665 0.3560 0.5778 0.5800	0.084 0.084 0.009 0.010 0.122 0.119	-22.8 -4.1 -20.4

^a i 485.8 cm^{-1} (bond lengths).

Table S5. Symmetry point group (PG), HOMA, HOMER, Shannon aromaticity index (SA), electron density of delocalized bond per atom (EDDB_p, in e), multicenter index (MCI) and NICS(1)_{zz} (in ppm) calculated for S₀ state of given polycycles at the CAM-B3LYP/6-311+G(d,p) level of theory. "Peri" means molecular perimeter.

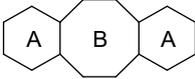
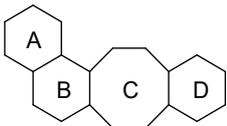
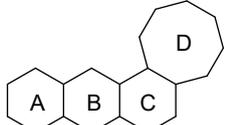
Compound	PG	HOMA	HOMER	SA	EDDB _p	MCI	NICS(1) _{zz}
	C_{2v}^a	A: 0.954 B: -0.164 peri: 0.234	-0.876 -3.189 -2.660	0.0003 0.0060 0.0042	0.7463 0.0578 0.3154	0.101 0.002	-10.1 45.2 /
	D_{2h}^b	A: 0.963 B: -0.094 peri: 0.455	-0.886 -2.055 -1.761	0.0002 0.0045 0.0028	0.7752 0.0734 0.4736	0.100 0.002	-16.4 30.3 /

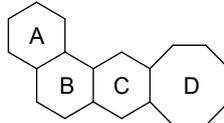
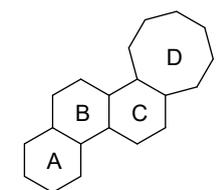
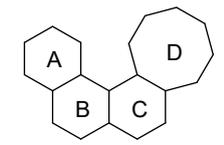
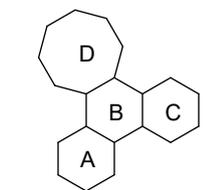
	C_{2v}^c	A: 0.895 B: 0.759 C: -0.093 peri: 0.442	-0.868 -0.486 -2.769 -2.030	0.0005 0.0011 0.0055 0.0031	0.5798 0.3276 0.0823 0.3000	0.076 0.047 0.003	-22.9 -8.6 33.2 /
	C_s^d	A: 0.756 B: 0.674 C: -0.206 peri: 0.232	-0.927 -0.547 -3.498 -2.322	0.0012 0.0013 0.0063 0.0042	0.4781 0.5213 0.0449 0.2898	0.067 0.060 0.002	-25.9 -16.5 57.2 /
	C_{2v}^e	A: 0.865 B: 0.821 C: -0.082 D: 0.956 peri: 0.544	-0.866 -0.401 -1.810 -0.873 -1.524	0.0006 0.0007 0.0042 0.0002 0.0024	0.5350 0.3818 0.0872 0.7875 0.4166	0.072 0.051 0.002 0.102	-24.4 -15.4 24.1 -18.7 /
	C_s^f	A: 0.785 B: 0.648 C: -0.076 D: 0.974 peri: 0.432	-0.905 -0.621 -2.189 -0.924 -1.597	0.0011 0.0015 0.0045 0.0001 0.0028	0.5056 0.4699 0.0580 0.7935 0.4127	0.070 0.056 0.002 0.104	-26.8 -19.6 36.8 -14.0 /
	C_{2v}^{ge}	A: 0.699 B: 0.863 C: 0.578 D: -0.054 peri: 0.526	-0.949 -0.333 -0.630 -2.583 -1.835	0.0014 0.0004 0.0019 0.0052 0.0026	0.3900 0.5184 0.2256 0.1013 0.2968	0.056 0.053 0.031 0.004	-24.1 -26.7 -6.9 26.9 /
	C_s^h	A: 0.656 B: 0.816 C: 0.460 D: -0.225 peri: 0.292	-1.055 -0.206 -0.844 -3.663 -2.125	0.0017 0.0005 0.0023 0.0065 0.0037	0.3299 0.5293 0.3397 0.0429 0.2880	0.049 0.051 0.042 0.001	-23.4 -32.2 -17.7 62.2 /
	C_s^i	A: 0.898 B: 0.592 C: 0.869 D: -0.098 peri: 0.442	-0.844 -0.502 -0.453 -2.879 -1.811	0.0005 0.0016 0.0006 0.0055 0.0029	0.6313 0.2832 0.4753 0.0693 0.3178	0.083 0.034 0.064 0.003	-28.2 -18.1 -8.1 38.7 /
	C_s^j	A: 0.923 B: 0.433 C: 0.771 D: -0.191 peri: 0.310	-0.910 -0.529 -0.461 -3.367 -1.997	0.0004 0.0021 0.0010 0.0061 0.0036	0.6558 0.2405 0.6467 0.0481 0.3226	0.086 0.028 0.073 0.002	-28.8 -18.0 -13.4 53.5 /
	C_1^k	A: 0.892 B: 0.415 C: 0.813 D: -0.311 peri: 0.258	-0.814 -0.623 -0.578 -3.975 -2.225	0.0005 0.0023 0.0008 0.0067 0.0038	0.6699 0.2585 0.5964 0.0443 0.3226	0.087 0.031 0.076 0.001	-28.7 -18.3 -28.7 8.5 /
	C_{2v}^l	A: 0.859 B: 0.197 C: 0.859 D: -0.246 peri: 0.214	-0.975 -0.117 -0.975 -3.782 -1.997	0.0008 0.0018 0.0008 0.0065 0.0038	0.6287 0.2215 0.6287 0.0410 0.3544	0.084 0.026 0.084 0.001	-28.5 -14.2 -28.5 60.1 /

^a *i* 108.1 cm⁻¹ (COT out-of-plane (oop)). ^b *i* 59.1 cm⁻¹ (oop). ^c *i* 87.3 cm⁻¹ (COT oop). ^d *i* 159.9 cm⁻¹ (COT oop), 43.0 cm⁻¹ (HH steric). ^e *i* 43.4 cm⁻¹ (COT oop). ^f *i* 101.9 cm⁻¹, 28.7 cm⁻¹ (HH steric). ^g *i* 77.9 cm⁻¹ (COT oop). ^h *i* 163.4 cm⁻¹ (COT oop), 41.8 (oop). ⁱ *i* 91.5 cm⁻¹ (COT oop). ^j *i* 166.5 cm⁻¹ (COT oop), 50.0 (oop). ^k COT ring is nonplanar. ^l *i* 222.8 cm⁻¹ (COT oop), 148.0 (HH steric), 43.5 (oop).

Table S6. Symmetry point group (PG), spin density at carbon atoms (SD), HOMA, HOMER, Shannon aromaticity index (SA), electron density of delocalized bond per atom (EDDB_p, in e), multicenter index (MCI) and NICS(1)_{zz} (in ppm) calculated for T₁ state of given polycycles at the UCAM-B3LYP/6-311+G(d,p) (normal font) and M06-2X/6-311+G(d,p) (*italic*) levels of theory. "Peri" means molecular perimeter. NICS is calculated only with UCAM-B3LYP.

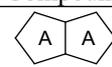
Compound	PG	SD	HOMA	HOMER	SA	EDDB _p	MCI	NICS(1) _{zz}
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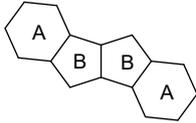
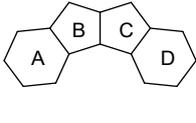
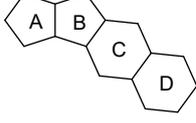
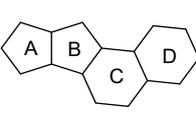
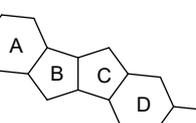
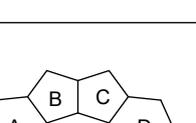
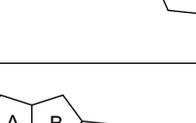
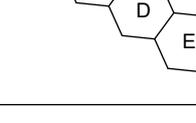
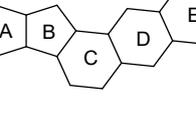
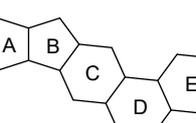
	C_{2v}	A: 0.48 0.50 B: 1.63 1.63 peri: 1.90 1.91	0.745 0.704 0.748 0.742 0.808 0.805	-0.764 -0.587 -0.273 -0.121 -0.731 -0.537	0.0012 0.0013 0.0008 0.0008 0.0009 0.0009	0.5422 0.5215 0.5068 0.5271 0.5627 0.5779	0.066 0.063 0.026 0.027	-30.1 -25.4 /
	D_{2h}	A: 0.54 0.55 B: 1.45 1.43 peri: 1.92 1.93	0.541 0.529 0.738 0.698 0.737 0.733	-1.082 -0.877 0.165 0.264 -0.962 -0.743	0.0022 0.0021 0.0004 0.0004 0.0013 0.0013	0.3403 0.3463 0.4955 0.4888 0.4809 0.4918	0.045 0.045 0.021 0.020	-25.1 -34.2 /
	C_{2v}	A: 0.20 0.21 B: 0.41 0.43 C: 1.49 1.50 peri: 1.90 1.91	0.773 0.741 0.730 0.682 0.594 0.595 0.799 0.797	-0.899 -0.714 -0.079 0.025 -0.452 -0.311 -0.750 -0.567	0.0011 0.0012 0.0009 0.0010 0.0015 0.0014 0.0010 0.0009	0.4199 0.4050 0.4181 0.4138 0.3862 0.4073 0.4790 0.4976	0.058 0.055 0.039 0.037 0.015 0.016	-28.0 -33.8 -16.2 /
	C_s^a	A: 0.13 0.14 B: 0.49 0.50 C: 1.67 1.65 peri: 1.90 1.91	0.892 0.878 0.258 0.218 0.826 0.809 0.691 0.685	-0.848 -0.629 -0.715 -0.598 -0.277 -0.126 -0.922 -0.735	0.0005 0.0005 0.0027 0.0027 0.0006 0.0006 0.0015 0.0015	0.6589 0.6589 0.2954 0.3018 0.6054 0.6159 0.5527 0.5643	0.085 0.085 0.028 0.027 0.035 0.036	-28.9 -18.2 -29.3 /
	C_s/C_{2v}	A: 0.21 0.22 B: 0.44 0.44 C: 1.30 1.34 D: 0.54 0.58 peri: 1.92 1.93	0.732 0.625 0.658 0.659 0.486 0.603 0.493 0.335 0.713 0.735	-0.865 -0.845 -0.129 -0.047 -0.325 0.153 -1.090 -1.210 -0.989 -0.777	0.0012 0.0017 0.0011 0.0011 0.0016 0.0007 0.0024 0.0031 0.0015 0.0013	0.3860 0.3193 0.3780 0.3917 0.2668 0.4247 0.3341 0.2502 0.4025 0.4752	0.051 0.045 0.032 0.034 0.011 0.015 0.039 0.034	-23.8 -28.9 -20.4 -16.2 /
	C_s^b	A: 0.15 0.15 B: 0.60 0.58 C: 1.43 1.42 D: 0.45 0.48 peri: 1.93 1.93	0.943 0.925 0.004 0.022 0.696 0.689 0.745 0.699 0.676 0.670	-0.844 -0.613 -0.999 -0.843 0.024 0.203 -0.833 -0.659 -0.986 -0.774	0.0003 0.0003 0.0035 0.0032 0.0006 0.0005 0.0012 0.0013 0.0016 0.0015	0.7313 0.7195 0.2095 0.2264 0.4638 0.4828 0.4843 0.4554 0.5211 0.5271	0.094 0.092 0.016 0.017 0.020 0.021 0.061 0.057	-26.4 -5.9 -27.8 -29.2 /
	C_{2v}/C_s^c	A: 0.09 0.10 B: 0.18 0.20 C: 0.38 0.40 D: 1.39 1.41 peri: 1.90 1.91	0.629 0.590 0.830 0.789 0.584 0.548 0.492 0.498 0.793 0.791	-1.023 -0.873 -0.223 -0.072 -0.094 0.016 -0.643 -0.498 -0.830 -0.639	0.0017 0.0018 0.0004 0.0005 0.0013 0.0013 0.0019 0.0018 0.0011 0.0010	0.3371 0.3272 0.4840 0.4641 0.3120 0.3331 0.3291 0.3580 0.4706 0.4846	0.048 0.047 0.046 0.044 0.027 0.028 0.011 0.013	-25.5 -36.6 -29.7 -8.3 /
	C_s^d	A: 0.05 0.06 B: 0.12 0.13 C: 0.50	0.772 0.758 0.839 0.811 0.047	-0.917 -0.726 -0.298 -0.134 -0.869	0.0011 0.0011 0.0005 0.0005 0.0033	0.4240 0.4279 0.5066 0.5015 0.2481	0.060 0.060 0.054 0.053 0.018	-27.0 -31.2 -9.3

		0.52 D: 1.65 1.64 peri: 1.91 1.91	0.022 0.849 0.829 0.686 0.682	-0.746 -0.291 -0.145 -1.001 -0.814	0.0032 0.0005 0.0005 0.0015 0.0015	0.2602 0.6414 0.6445 0.4994 0.5079	0.018 0.038 0.038	-29.2 / /
	C_s	A: 0.05 0.06 B: 0.18 0.20 C: 0.42 0.45 D: 1.54 1.53 peri: 1.90 1.91	0.929 0.921 0.445 0.402 0.779 0.724 0.675 0.675 0.745 0.740	-0.846 -0.629 -0.509 -0.394 -0.151 -0.034 -0.351 -0.205 -0.789 -0.611	0.0003 0.0003 0.0020 0.0020 0.0008 0.0009 0.0011 0.0010 0.0012 0.0011	0.6914 0.6950 0.2252 0.2281 0.4877 0.4676 0.4449 0.4691 0.4975 0.5079	0.089 0.089 0.024 0.023 0.047 0.044 0.019 0.021	-28.6 -16.0 -32.6 -20.5 /
	C_s^e	A: 0.03 0.04 B: 0.13 0.13 C: 0.48 0.50 D: 1.65 1.64 peri: 1.90 1.91	0.892 0.880 0.601 0.574 0.405 0.363 0.800 0.788 0.668 0.659	-0.890 -0.680 -0.433 -0.285 -0.604 -0.460 -0.283 -0.127 -0.841 -0.658	0.0005 0.0005 0.0015 0.0015 0.0010 0.0023 0.0009 0.0006 0.0016 0.0015	0.6012 0.6007 0.3163 0.3245 0.3699 0.3694 0.5697 0.5868 0.5105 0.5222	0.080 0.080 0.039 0.039 0.037 0.036 0.032 0.033	-28.3 -21.6 -21.9 -27.8 /
	C_{1f}	A: 0.05 0.06 B: 0.14 0.15 C: 0.49 0.51 D: 1.62 1.60 peri: 1.90 1.90	0.864 0.849 0.599 0.589 0.498 0.470 0.827 0.814 0.713 0.711	-0.807 -0.606 -0.467 -0.296 -0.421 -0.257 -0.246 -0.102 -0.762 -0.566	0.0006 0.0006 0.0016 0.0015 0.0018 0.0018 0.0005 0.0005 0.0013 0.0012	0.6013 0.5977 0.3361 0.3472 0.3487 0.3472 0.5681 0.5765 0.5153 0.5242	0.079 0.079 0.040 0.040 0.035 0.034 0.032	-30.8 -22.3 -21.6 -24.8 /
	C_{2v}^g	A: 0.10 0.11 B: 0.47 0.48 C: 0.10 0.11 D: 1.70 1.69 peri: 1.91 1.91	0.910 0.898 -0.220 -0.264 0.910 0.898 0.861 0.842 0.599 0.589	-0.973 -0.750 -0.170 -0.131 -0.973 -0.750 -0.304 -0.148 -0.913 -0.738	0.0005 0.0005 0.0018 0.0017 0.0005 0.0005 0.0005 0.0005 0.0018 0.0017	0.7111 0.7078 0.1729 0.1854 0.7111 0.7078 0.6414 0.6441 0.5779 0.5836	0.094 0.093 0.012 0.012 0.094 0.093 0.040 0.040	-24.6 -6.2 -24.6 -28.0 /

^a *i* 80.5/92.1 cm⁻¹ (HH steric). ^b *i* 67.7/75.9 cm⁻¹ (HH steric). ^c *i* 32.6 cm⁻¹ (out-of-plane). ^d *i* 79.5/95.9 cm⁻¹ (HH steric). ^e *i* 95.3/113.6 cm⁻¹ (HH steric). ^f The system is nonplanar. ^g *i* 152.8, 125.2/165.5, 137.1, 29.1 cm⁻¹ (HH steric).

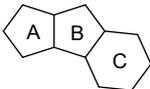
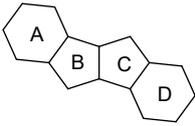
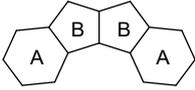
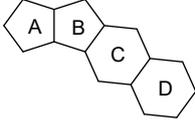
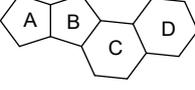
Table S7. Symmetry point group (PG), HOMA, HOMER, Shannon aromaticity index (SA), electron density of delocalized bond per atom (EDDB_p, in e), multicenter index (MCI) and NICS(1)_{zz} (in ppm) calculated for S₀ state of given polycycles at the CAM-B3LYP/6-311+G(d,p) level of theory. "Peri" means molecular perimeter, "peri-p" perimeter of pentalene subunit.

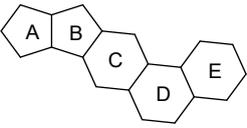
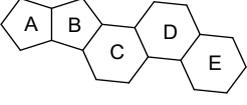
Compound	PG	HOMA	HOMER	SA	EDDB _p	MCI	NICS(1) _{zz}
	C_{2h}	A: -0.420 peri: -0.459	-3.268 -4.229	0.0067 0.0080	0.0605 0.0434	0.021 -0.010	48.6 /
	C_s	A: -0.279 B: -0.282 C: 0.928 peri-p: -0.202 peri: 0.202	-2.852 -1.502 -1.112 -2.762 -2.508	0.0057 0.0042 0.0003 0.0059 0.0043	0.0756 0.0683 0.7175 0.0585 0.3039	0.026 0.013 0.102 -0.001	30.8 32.0 -13.2 / /

	C_{2h}	A: 0.950 B: -0.225 peri-p: -0.095 peri: 0.468	-1.016 -1.419 -1.759 -1.793	0.0002 0.0039 0.0045 0.0028	0.7558 0.0794 0.0682 0.4541	0.102 0.016 0.001	-17.1 22.4 / /
	C_s^a	A: 0.915 B: -0.075 C: -0.098 D: 0.044 peri-p: -0.066 peri: 0.461	-1.071 -0.965 -1.838 -1.906 -1.922 -1.943	0.0003 0.0034 0.0039 0.0041 0.0044 0.0030	0.6879 0.0919 0.0949 0.1402 0.0725 0.2803	0.096 0.016 0.024 0.019 -0.001	2.4 62.7 70.1 26.1 / /
	C_s	A: -0.176 B: -0.296 C: 0.567 D: 0.887 peri-p: -0.119 peri: 0.372	-2.542 -1.222 -1.187 -0.773 -2.354 -2.119	0.0051 0.0036 0.0019 0.0005 0.0052 0.0034	0.0841 0.0950 0.2995 0.6270 0.0836 0.3054	0.029 0.012 0.045 0.080 0.001	22.3 23.7 -10.8 -24.8 / /
	C_s	A: -0.316 B: -0.251 C: 0.876 D: 0.763 peri-p: -0.241 peri: 0.298	-2.982 -1.825 -0.404 -0.862 -3.092 -2.036	0.0060 0.0048 0.0004 0.0011 0.0064 0.0037	0.0707 0.0643 0.3576 0.2099 0.0522 0.298	0.025 0.015 0.062 0.063 -0.003	40.8 43.8 -18.7 -24.1 / /
	C_s	A: 0.953 B: -0.175 C: -0.269 D: 0.611 E: 0.868 peri-p: -0.082 peri: 0.526	-0.974 -1.304 -1.212 -1.060 -0.780 -1.546 -1.697	0.0001 0.0036 0.0035 0.0017 0.0006 0.0042 0.0025	0.7643 0.0866 0.1043 0.3344 0.5934 0.0877 0.4167	0.100 0.016 0.013 0.048 0.077 0.001	-18.8 17.5 17.2 -15.2 -25.7 / /
	C_s	A: 0.909 B: 0.117 C: 0.079 D: 0.191 E: 0.228 peri-p: 0.075 peri: 0.582	-0.998 -0.508 -1.181 -1.105 -1.646 -1.294 -1.597	0.0003 0.0026 0.0029 0.0028 0.0036 0.0034 0.0023	0.6816 0.1270 0.1220 0.1866 0.1825 0.0961 0.3092	0.093 0.019 0.026 0.019 0.026 -0.002	33.4 124.2 143.8 73.4 24.5 / /
	C_s	A: -0.117 B: -0.315 C: 0.321 D: 0.819 E: 0.735 peri-p: -0.082 peri: 0.454	-2.362 -1.165 -1.516 -0.314 -0.917 -2.189 -1.946	0.0047 0.0035 0.0030 0.0006 0.0012 0.0049 0.0030	0.0892 0.1110 0.2052 0.5075 0.4091 0.0993 0.2898	0.031 0.012 0.029 0.053 0.058 0.002	17.3 18.9 -8.2 -27.7 -25.3 / /
	C_s	A: -0.337 B: -0.255 C: 0.745 D: 0.792 E: 0.625 peri-p: -0.265 peri: 0.365	-3.034 -2.014 -0.457 -0.240 -1.049 -3.255 -1.856	0.0061 0.0051 0.0010 0.0006 0.0021 0.0067 0.0033	0.0690 0.0629 0.4181 0.5098 0.3256 0.0504 0.3043	0.024 0.016 0.046 0.049 0.048 -0.004	45.3 48.8 -19.4 -31.0 -22.9 / /
	C_s	A: -0.210 B: -0.256 C: 0.721 D: 0.594 E: 0.887 peri-p: -0.127 peri: 0.446	-2.644 -1.265 -1.035 -0.383 -0.845 -2.462 -1.848	0.0053 0.0037 0.0012 0.0015 0.0005 0.0054 0.0032	0.0821 0.0852 0.4090 0.3080 0.6187 0.0740 0.3171	0.028 0.013 0.059 0.036 0.083 0.001	26.2 28.1 -10.9 -19.6 -28.1 / /
	C_s	A: -0.294 B: -0.249 C: 0.920 D: 0.431 E: 0.920 peri-p: -0.221	-2.913 -1.696 -0.515 -0.490 -0.856 -2.962	0.0059 0.0046 0.0002 0.0020 0.0004 0.0034	0.0732 0.0650 0.6679 0.2323 0.6784 0.0552	0.025 0.015 0.073 0.026 0.089 -0.002	37.5 40.1 -16.2 -15.8 -28.2 /

		peri: 0.348	-1.846	0.0034	0.3312		/
^a RHF → UHF instability.							

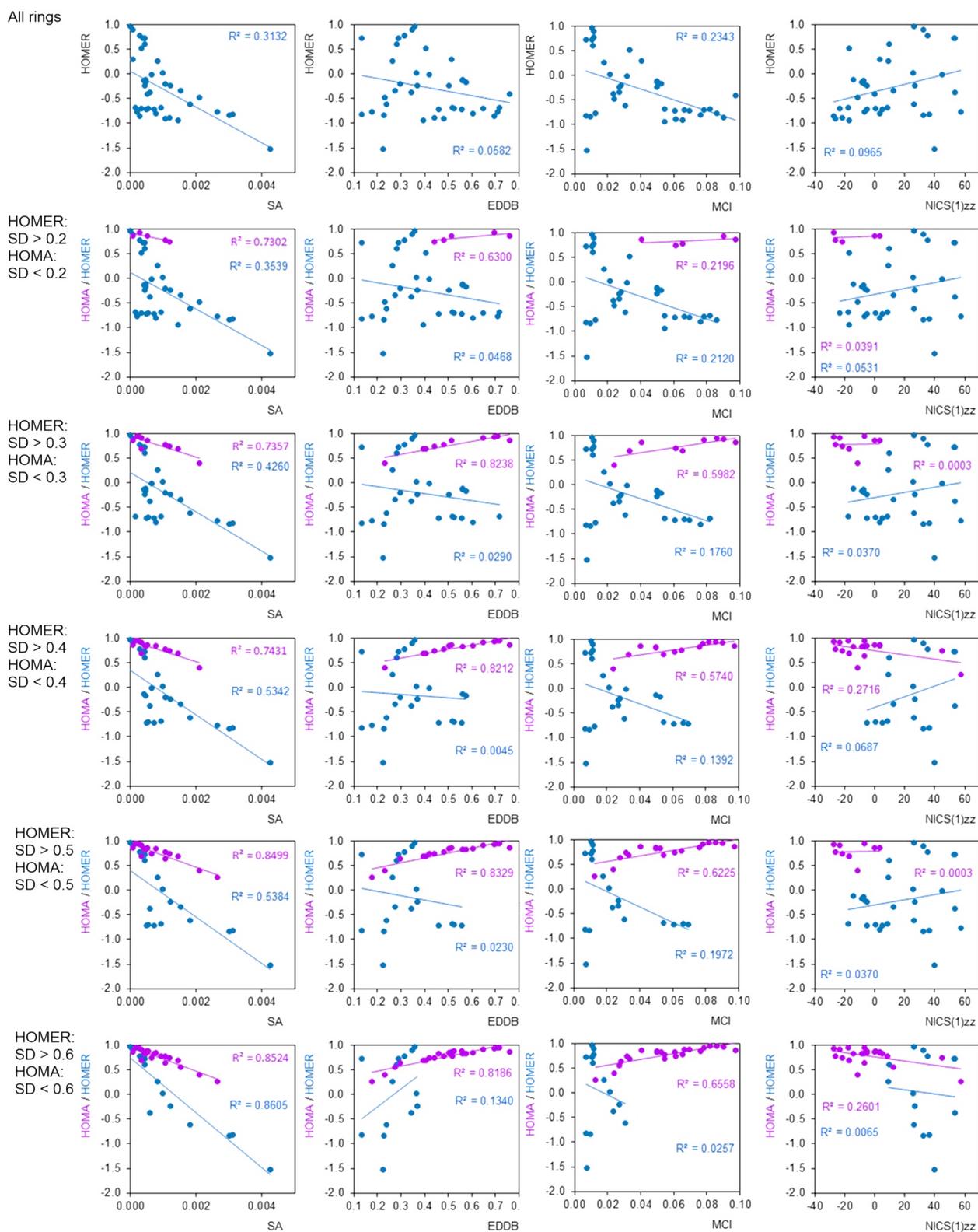
Table S8. Symmetry point group (PG), spin density at carbon atoms (SD), HOMA, HOMER, Shannon aromaticity index (SA), electron density of delocalized bond per atom (EDDB_p, in e), multicenter index (MCI) and NICS(1)_{zz} (in ppm) calculated for T₁ state of given polycycles at the UCAM-B3LYP/6-311+G(d,p) (normal font) and M06-2X/6-311+G(d,p) (*italic*) levels of theory. "Peri" means molecular perimeter. NICS is calculated only with UCAM-B3LYP.

Compound	PG	SD	HOMA	HOMER	SA	EDDB _p	MCI	NICS(1) _{zz}
	D _{2h}	A: 1.15 <i>1.15</i> peri: 1.90 <i>1.91</i>	0.487 <i>0.432</i> 0.892 <i>0.862</i>	-0.066 <i>-0.002</i> 0.086 <i>0.235</i>	0.0007 <i>0.0007</i> 0.0000 <i>0.0000</i>	0.4806 <i>0.4786</i> 0.6333 <i>0.6916</i>	0.045 <i>0.045</i> 0.052 <i>0.053</i>	-30.5 / / /
	C _s	A: 1.10 <i>1.10</i> B: 0.93 <i>0.94</i> C: 0.43 <i>0.45</i> peri-p: 1.64 <i>1.64</i> peri: 1.91 <i>1.92</i>	0.387 <i>0.359</i> 0.370 <i>0.313</i> 0.896 <i>0.869</i> 0.539 <i>0.538</i> 0.738 <i>0.743</i>	-0.404 <i>-0.290</i> 0.610 <i>0.607</i> -0.654 <i>-0.447</i> -0.016 <i>0.116</i> -0.504 <i>-0.311</i>	0.0016 <i>0.0014</i> 0.0003 <i>0.0003</i> 0.0003 <i>0.0000</i> 0.0011 <i>0.0009</i> 0.0010 <i>0.0009</i>	0.2982 <i>0.3207</i> 0.3045 <i>0.3130</i> 0.6682 <i>0.6506</i> 0.3936 <i>0.4158</i> 0.5470 <i>0.5605</i>	0.048 <i>0.048</i> 0.026 <i>0.026</i> 0.076 <i>0.073</i> 0.016 <i>0.017</i> / /	-19.3 / -14.9 / -27.4 / / /
	C _s /C _{2h} ^a	A: 0.55 <i>0.56</i> B: 0.98 <i>0.88</i> C: 0.81 <i>0.88</i> D: 0.42 <i>0.56</i> peri-p: 1.42 <i>1.41</i> peri: 1.93 <i>1.94</i>	0.609 <i>0.646</i> 0.237 <i>0.251</i> 0.416 <i>0.251</i> 0.874 <i>0.646</i> 0.393 <i>0.575</i> 0.762 <i>0.582</i>	-0.842 <i>-0.613</i> 0.293 <i>0.132</i> 0.148 <i>0.132</i> -0.627 <i>-0.613</i> 0.056 <i>0.298</i> -0.699 <i>-0.439</i>	0.0015 <i>0.0012</i> 0.0010 <i>0.0007</i> 0.0008 <i>0.0007</i> 0.0004 <i>0.0012</i> 0.0012 <i>0.0004</i> 0.0011 <i>0.0006</i>	0.3874 <i>0.4005</i> 0.2195 <i>0.3095</i> 0.3232 <i>0.3095</i> 0.6163 <i>0.4005</i> 0.2901 <i>0.4355</i> 0.4837 <i>0.5317</i>	0.042 <i>0.047</i> 0.026 <i>0.026</i> 0.032 <i>0.026</i> 0.069 <i>0.047</i> 0.009 <i>0.016</i> / /	-15.0 / -20.4 / -11.4 / -23.0 / /
	C _{2v}	A: 0.37 <i>0.38</i> B: 0.87 <i>0.89</i> peri-p: 1.38 <i>1.39</i> peri: 1.92 <i>1.92</i>	0.916 <i>0.901</i> 0.384 <i>0.343</i> 0.442 <i>0.420</i> 0.777 <i>0.772</i>	-0.759 <i>-0.536</i> 0.664 <i>0.683</i> 0.597 <i>0.640</i> -0.512 <i>-0.330</i>	0.0002 <i>0.0002</i> 0.0004 <i>0.0004</i> 0.0005 <i>0.0005</i> 0.0009 <i>0.0008</i>	0.6967 <i>0.6903</i> 0.2933 <i>0.3036</i> 0.3575 <i>0.3741</i> 0.6053 <i>0.6142</i>	0.083 <i>0.082</i> 0.026 <i>0.027</i> 0.005 <i>0.006</i> / /	-25.7 / -6.0 / / /
	C _s	A: 1.06 <i>1.07</i> B: 0.79 <i>0.82</i> C: 0.36 <i>0.37</i> D: 0.18 <i>0.19</i> peri-p: 1.50 <i>1.52</i> peri: 1.91 <i>1.92</i>	0.346 <i>0.327</i> 0.322 <i>0.275</i> 0.596 <i>0.582</i> 0.834 <i>0.804</i> 0.383 <i>0.373</i> 0.689 <i>0.688</i>	-0.510 <i>-0.376</i> 0.632 <i>0.636</i> -0.636 <i>-0.458</i> -0.762 <i>-0.575</i> -0.155 <i>-0.048</i> -0.776 <i>-0.582</i>	0.0020 <i>0.0018</i> 0.0003 <i>0.0003</i> 0.0014 <i>0.0013</i> 0.0007 <i>0.0008</i> 0.0016 <i>0.0014</i> 0.0015 <i>0.0013</i>	0.2685 <i>0.2869</i> 0.2798 <i>0.2794</i> 0.3612 <i>0.3756</i> 0.5449 <i>0.5270</i> 0.2207 <i>0.3445</i> 0.4639 <i>0.4765</i>	0.046 <i>0.048</i> 0.021 <i>0.022</i> 0.038 <i>0.038</i> 0.070 <i>0.068</i> 0.008 <i>0.009</i> / /	-10.3 / -7.2 / -24.7 / -28.1 / /
	C _s	A: 1.08 <i>1.07</i> B: 0.99 <i>0.98</i> C: 0.44 <i>0.47</i> D: 0.14 <i>0.871</i>	0.473 <i>0.441</i> 0.419 <i>0.349</i> 0.697 <i>0.638</i> 0.871	-0.239 <i>-0.134</i> 0.452 <i>0.0429</i> -0.082 <i>0.049</i> -0.772	0.0010 <i>0.0009</i> 0.0004 <i>0.0004</i> 0.0008 <i>0.0009</i> 0.0006	0.3883 <i>0.4254</i> 0.3465 <i>0.3505</i> 0.3761 <i>0.3689</i> 0.5897	0.049 <i>0.049</i> 0.030 <i>0.030</i> 0.035 <i>0.032</i> 0.076	-28.3 / -21.7 / -21.2 / -27.9

	C _s	A: 1.08	0.362	-0.479	0.0019	0.2769	0.047	-14.4
		<i>1.08</i>	0.339	-0.354	0.0017	0.2957	<i>0.048</i>	
		B: 0.84	0.369	0.684	0.0002	0.2921	0.023	-9.6
		<i>0.86</i>	0.316	0.675	0.0002	0.2913	<i>0.023</i>	
		C: 0.38	0.745	-0.498	0.0008	0.4677	0.048	-25.9
		<i>0.39</i>	0.720	-0.311	0.0008	0.4708	<i>0.047</i>	
		D: 0.16	0.507	-0.402	0.0017	0.2728	0.030	-19.0
		<i>0.17</i>	0.461	-0.288	0.0018	0.2743	<i>0.029</i>	
		E: 0.05	0.903	-0.840	0.0004	0.6494	0.085	-28.4
		<i>0.05</i>	0.896	-0.631	0.0004	0.6561	<i>0.086</i>	
		peri-p: 1.55	0.461	-0.076	0.0013	0.3574	0.011	/
		<i>1.55</i>	0.456	0.035	0.0012	0.3724	<i>0.012</i>	
		peri: 1.92	0.666	-0.770	0.0015	0.4568		/
<i>1.92</i>	0.663	-0.586	0.0014	0.4706				
	C _s	A: 1.09	0.443	-0.302	0.0013	0.3444	0.049	-24.8
		<i>1.08</i>	<i>0.414</i>	<i>-0.193</i>	<i>0.0011</i>	<i>0.3766</i>	<i>0.049</i>	
		B: 0.96	0.416	0.518	0.0004	0.3251	0.028	-17.9
		<i>0.96</i>	<i>0.351</i>	<i>0.503</i>	<i>0.0004</i>	<i>0.3332</i>	<i>0.028</i>	
		C: 0.42	0.808	-0.129	0.0005	0.4821	0.047	-23.7
		<i>0.45</i>	<i>0.760</i>	<i>0.030</i>	<i>0.0005</i>	<i>0.4653</i>	<i>0.044</i>	
		D: 0.13	0.546	-0.407	0.0016	0.2815	0.033	-19.4
		<i>0.14</i>	<i>0.529</i>	<i>-0.276</i>	<i>0.0016</i>	<i>0.2944</i>	<i>0.034</i>	
		E: 0.04	0.896	-0.843	0.0005	0.6341	0.084	-28.3
		<i>0.05</i>	<i>0.881</i>	<i>-0.633</i>	<i>0.0005</i>	<i>0.6304</i>	<i>0.083</i>	
		peri-p: 1.67	0.665	0.052	0.0008	0.4451	0.022	/
		<i>1.65</i>	<i>0.667</i>	<i>0.211</i>	<i>0.0006</i>	<i>0.4768</i>	<i>0.024</i>	
		peri: 1.92	0.710	-0.588	0.0012	0.4792		/
<i>1.93</i>	<i>0.711</i>	<i>-0.403</i>	<i>0.0011</i>	<i>0.4947</i>				

^a *i* 416.3 cm⁻¹ (bond lengths).

Correlations for polybenzenoid compounds (T₁)



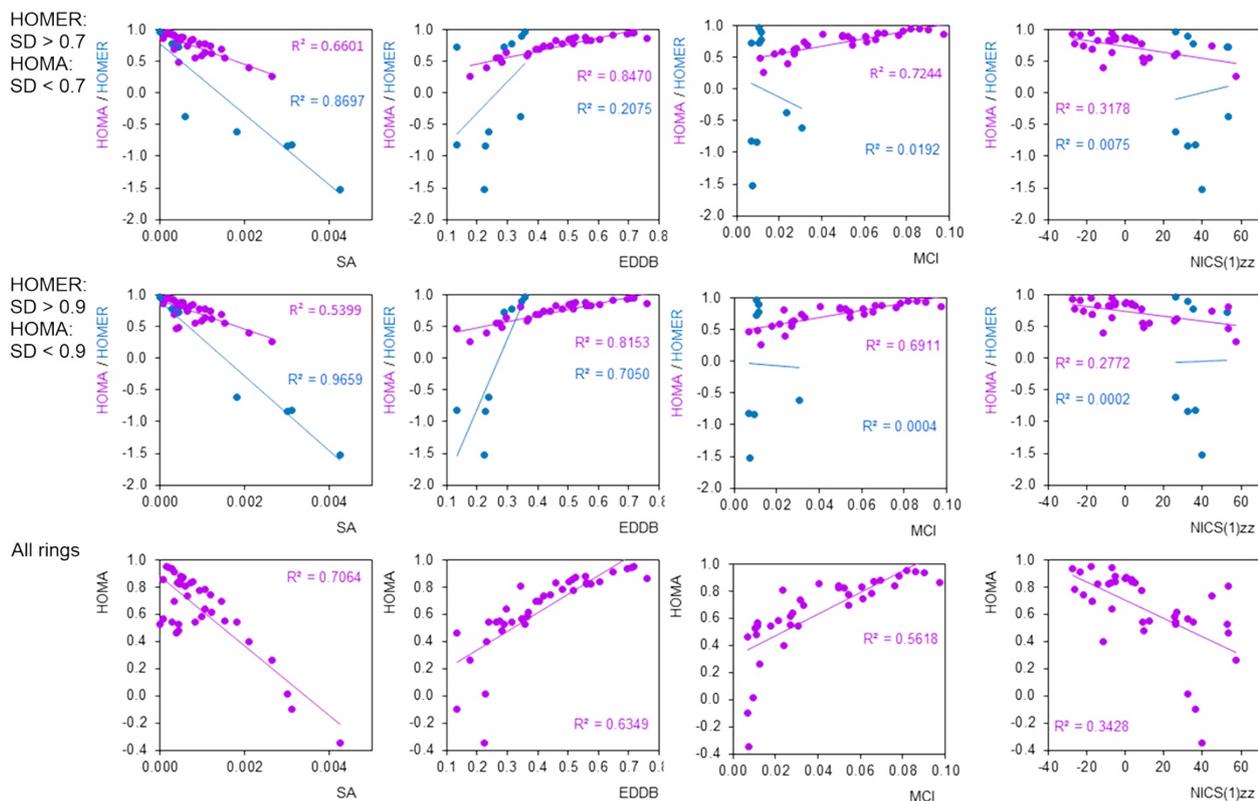
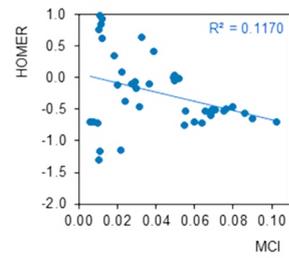
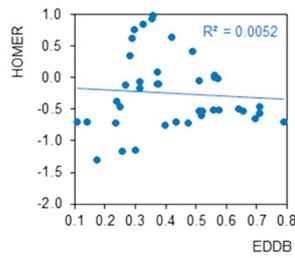
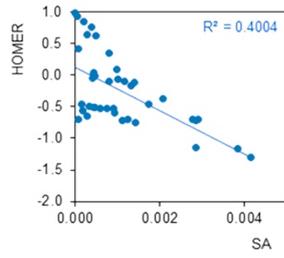
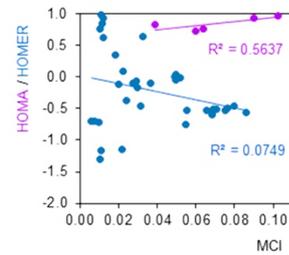
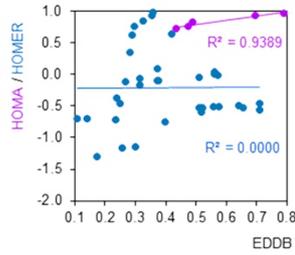
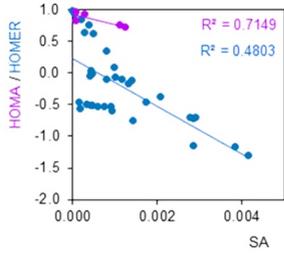


Figure S1. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for individual rings with different spin densities (SD) of polybenzenoid systems in their T₁ state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.

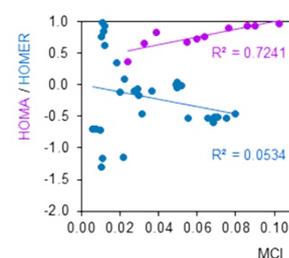
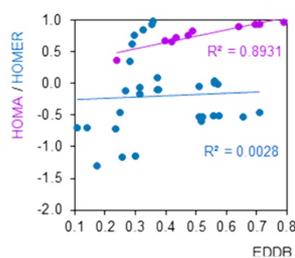
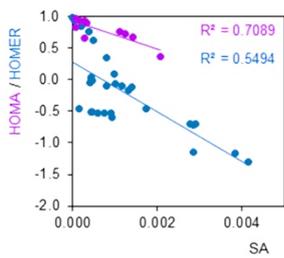
All rings



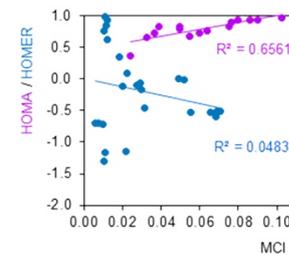
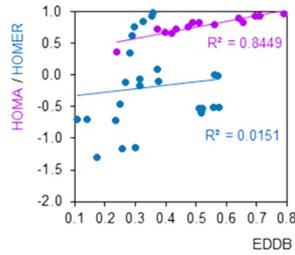
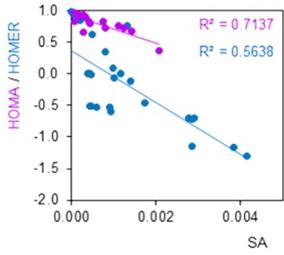
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SD > 0.2
HOMA:
SD < 0.2



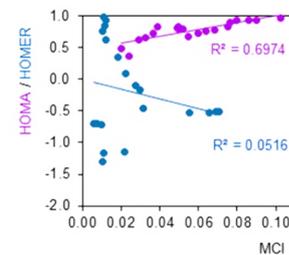
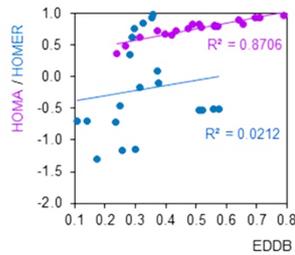
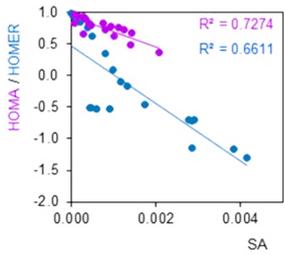
HOMER:
SD > 0.3
HOMA:
SD < 0.3



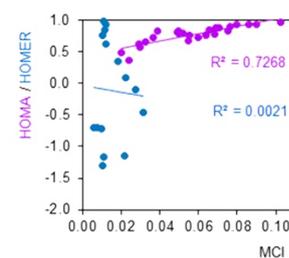
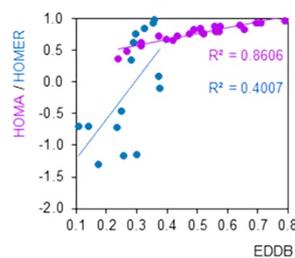
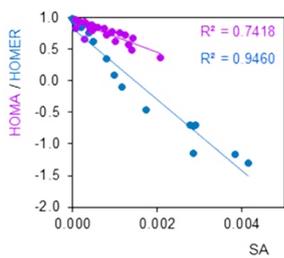
HOMER:
SD > 0.4
HOMA:
SD < 0.4



HOMER:
SD > 0.5
HOMA:
SD < 0.5



HOMER:
SD > 0.6
HOMA:
SD < 0.6



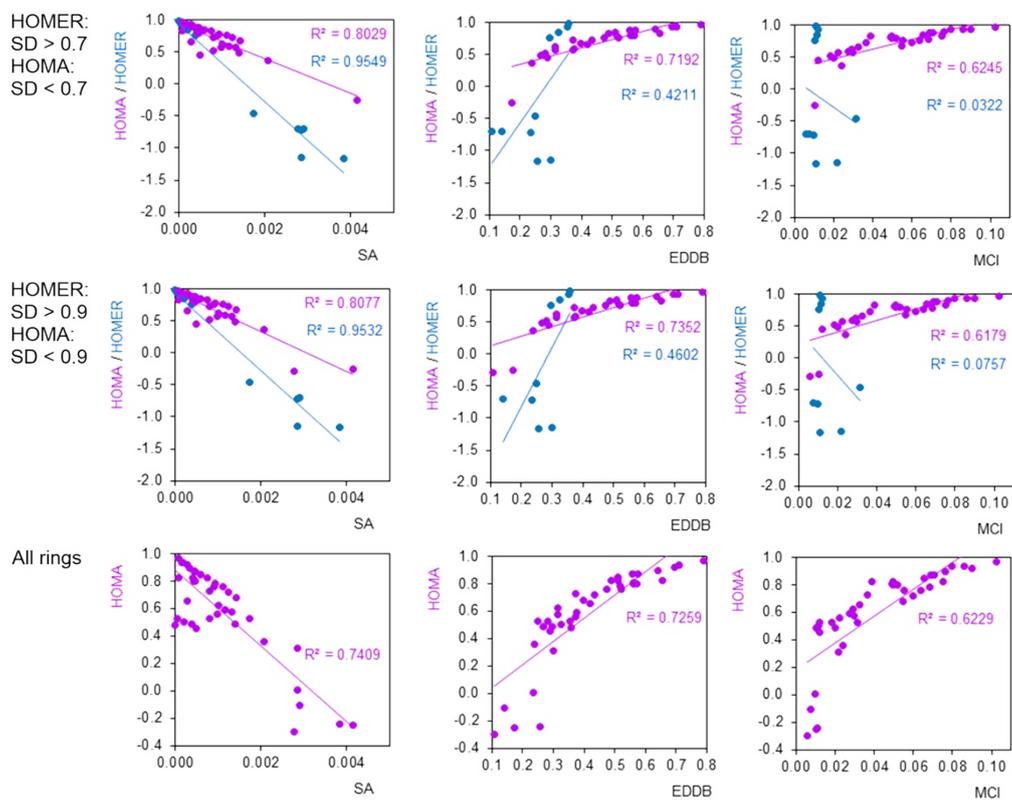


Figure S2. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and multicenter index (MCI) calculated for individual rings with different spin densities (SD) of polybenzenoid systems in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory.

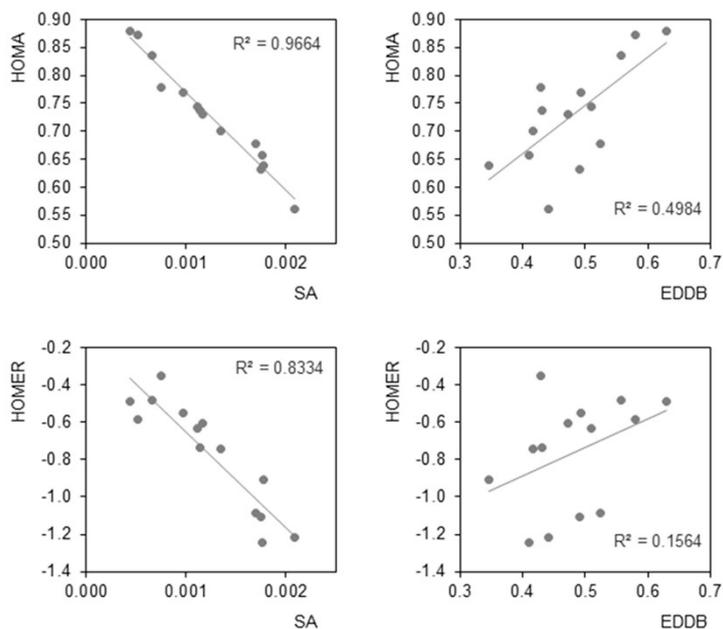


Figure S3. Correlations between HOMA/HOMER and Shannon aromaticity (SA) and electron density of delocalized bonds per atom (EDDB) calculated for molecular perimeter of polybenzenoid systems in their T_1 state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.

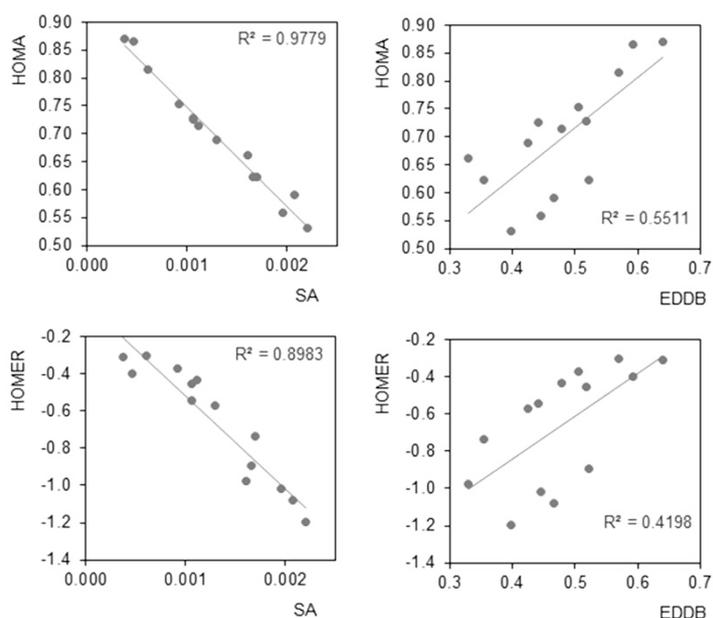


Figure S4. Correlations between HOMA/HOMER and Shannon aromaticity (SA) and electron density of delocalized bonds per atom (EDDB) calculated for molecular perimeter of polybenzenoid systems in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory.

Correlations for polycycles composed of benzene ring(s) and one cyclobutadiene ring (T_1)

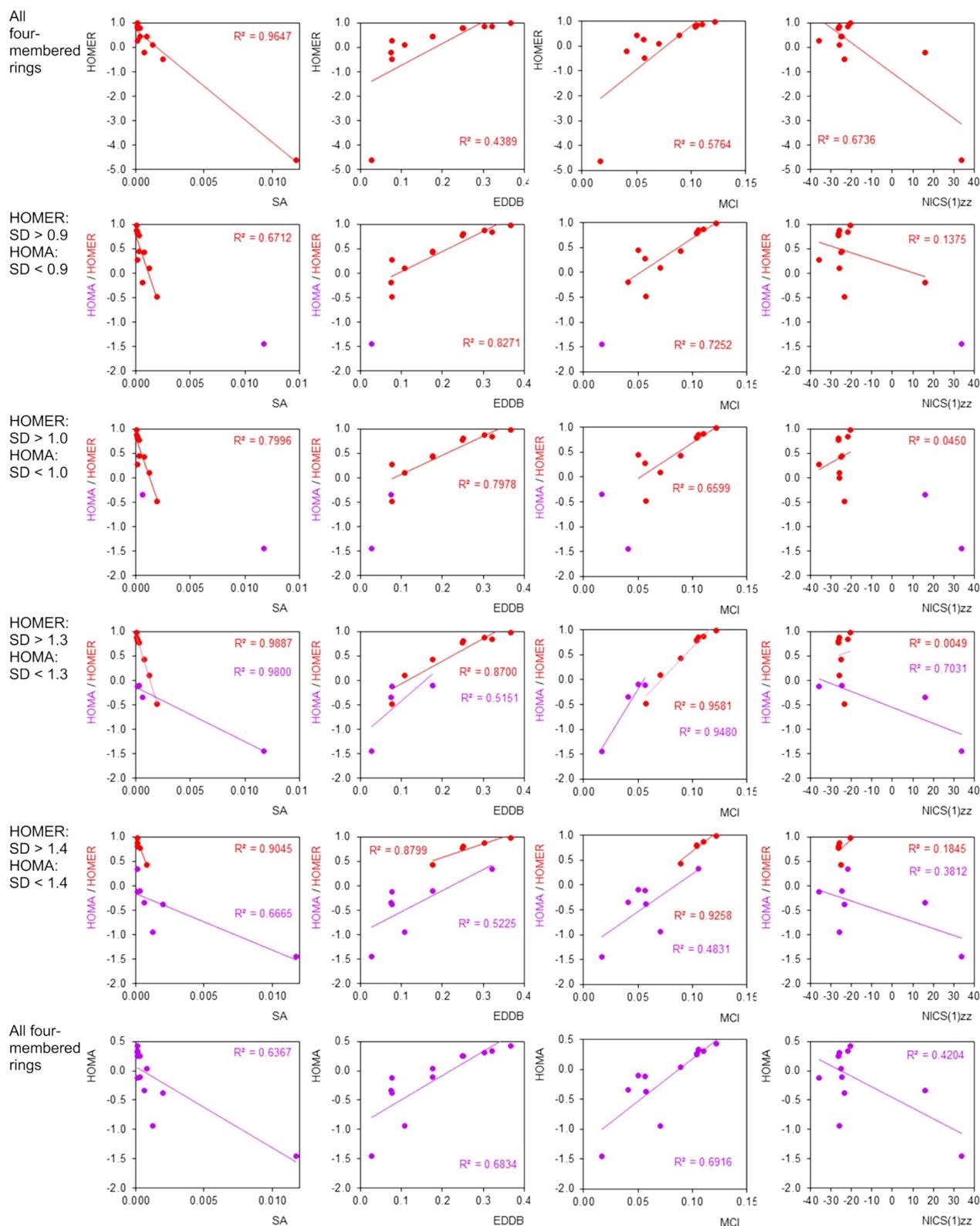


Figure S5. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for cyclobutadiene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and one cyclobutadiene ring in their T_1 state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.

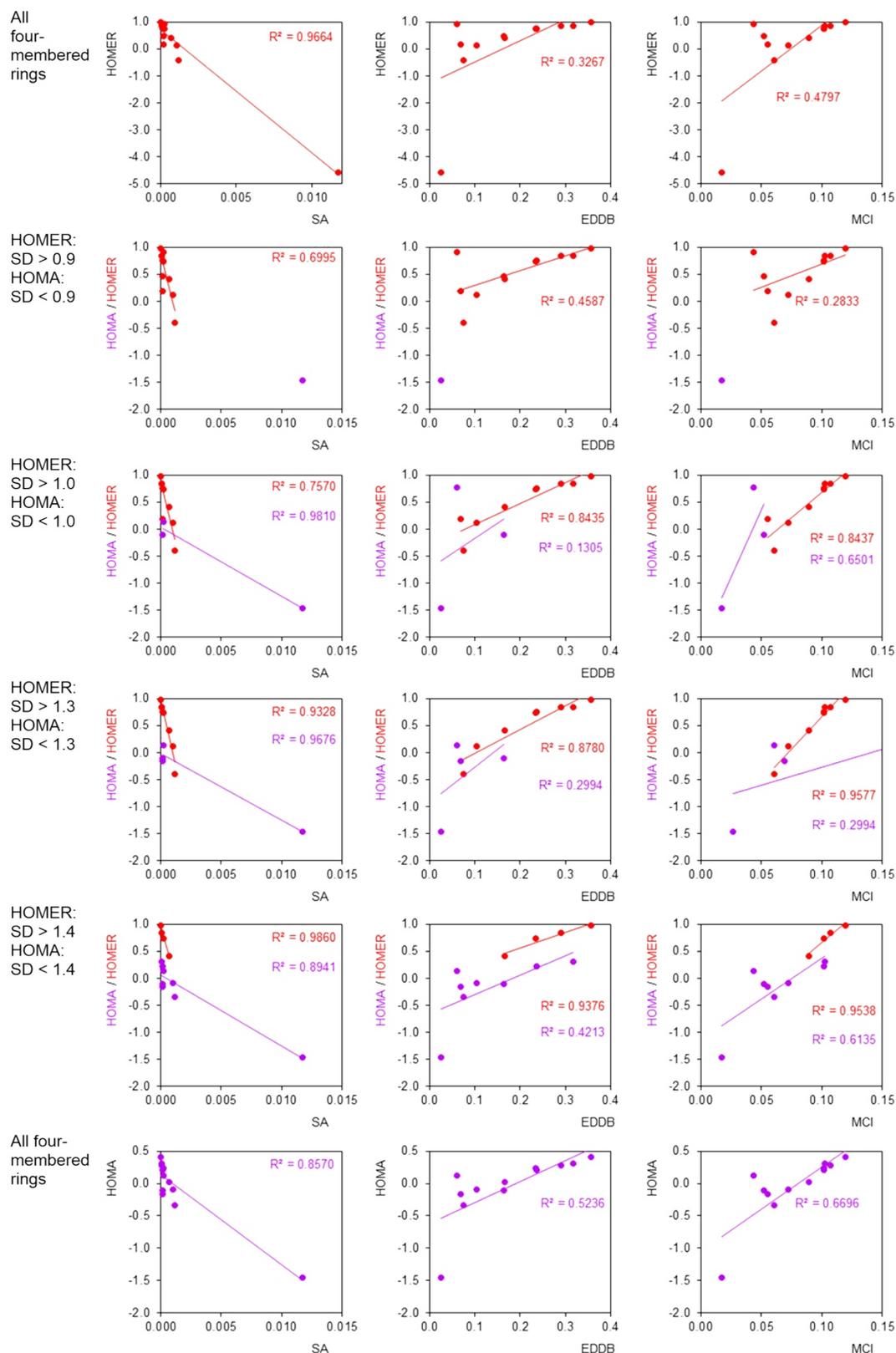
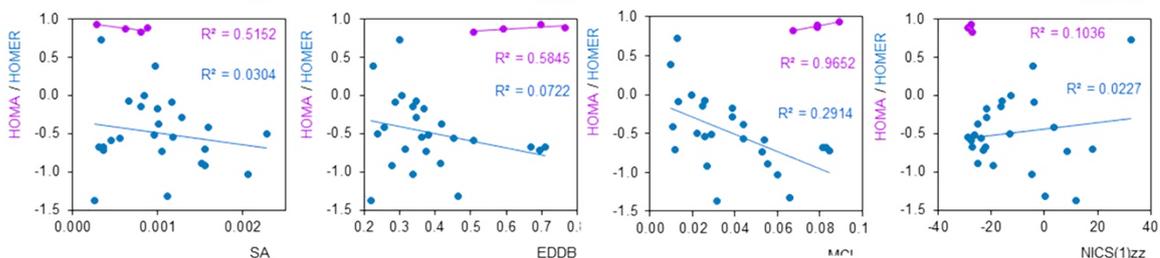
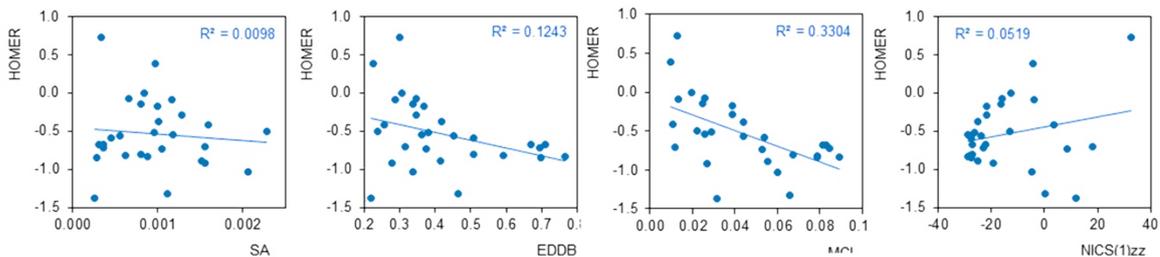


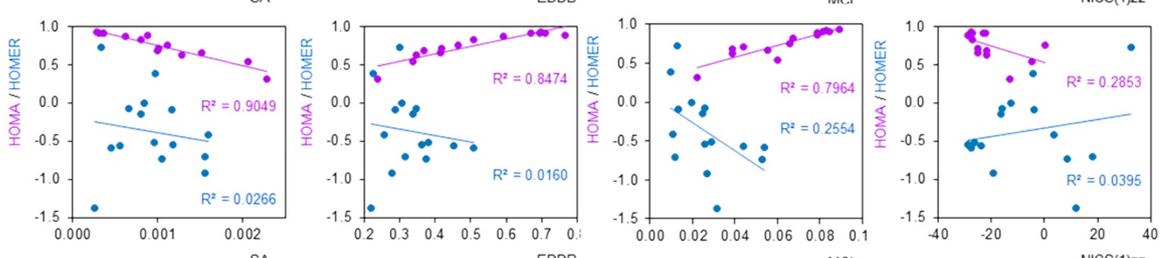
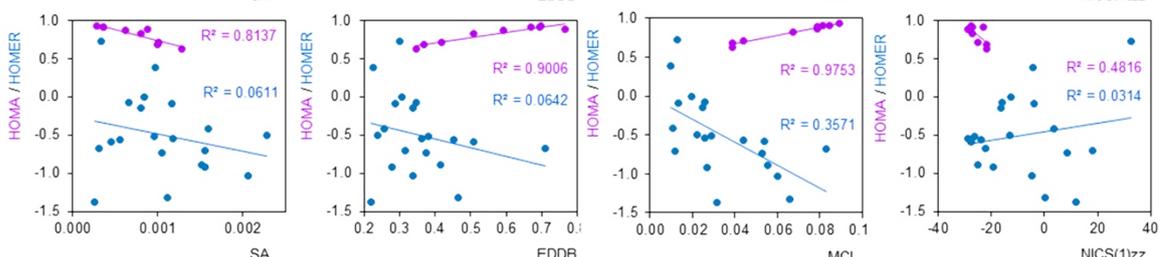
Figure S6. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and multicenter index (MCI) calculated for cyclobutadiene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and one cyclobutadiene ring in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory.

All six-membered rings

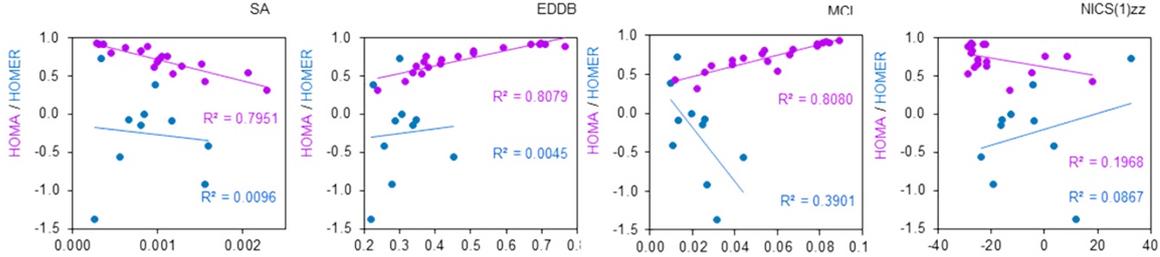
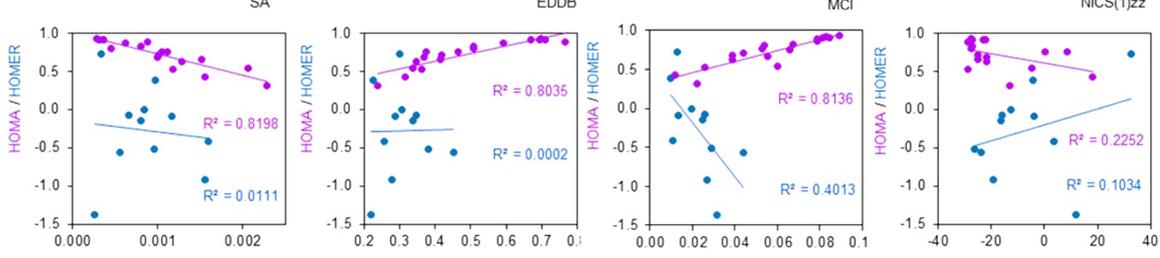
HOMER:
SD > 0.2
HOMA:
SD < 0.2



HOMER:
SD > 0.3
HOMA:
SD < 0.3



HOMER:
SD > 0.4
HOMA:
SD < 0.4



HOMER:
SD > 0.7
HOMA:
SD < 0.7



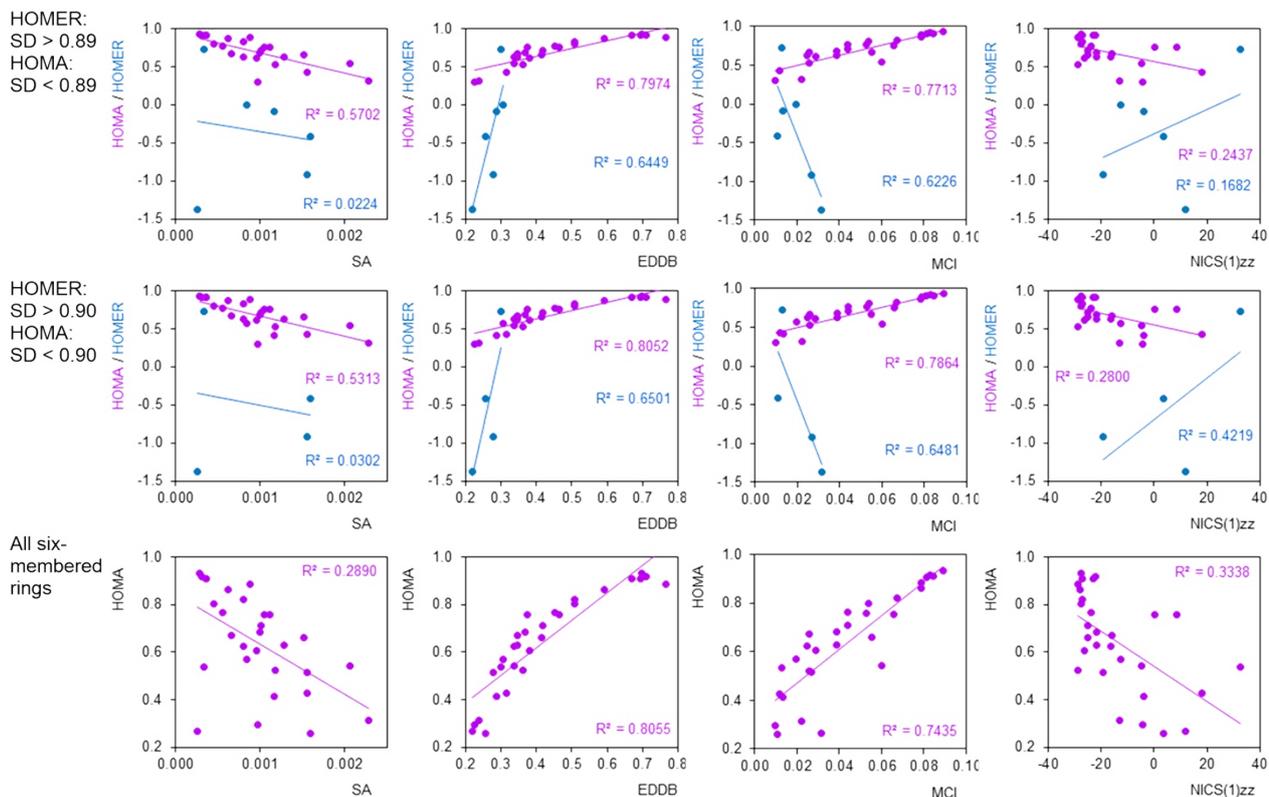
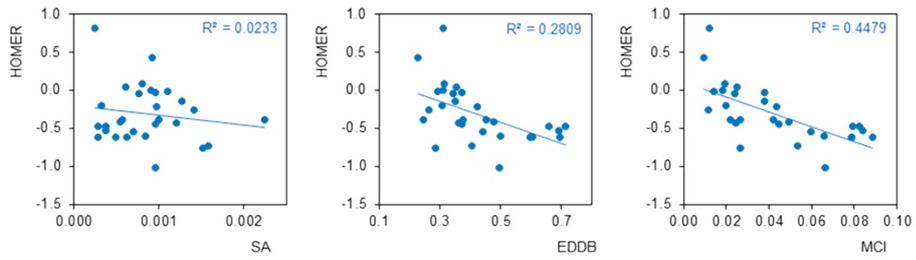
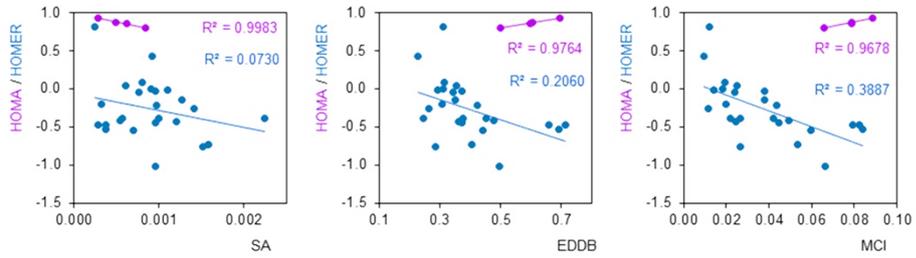


Figure S7. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for benzene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and one cyclobutadiene ring in their T₁ state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.

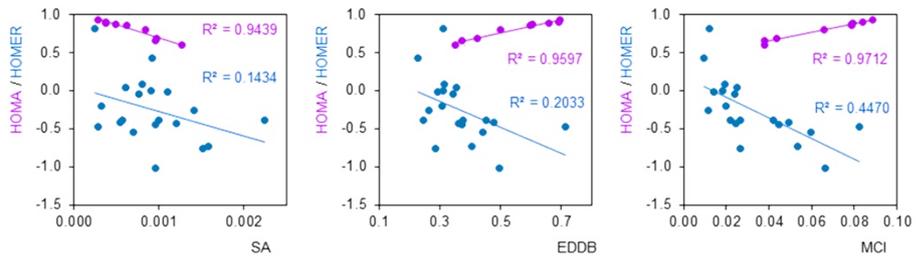
All six-membered rings



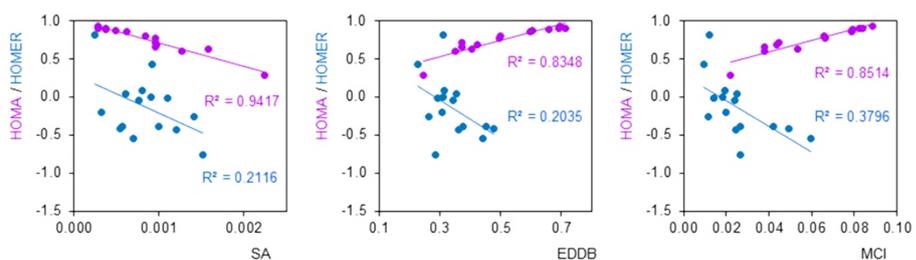
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SD > 0.2
HOMA:
SD < 0.2



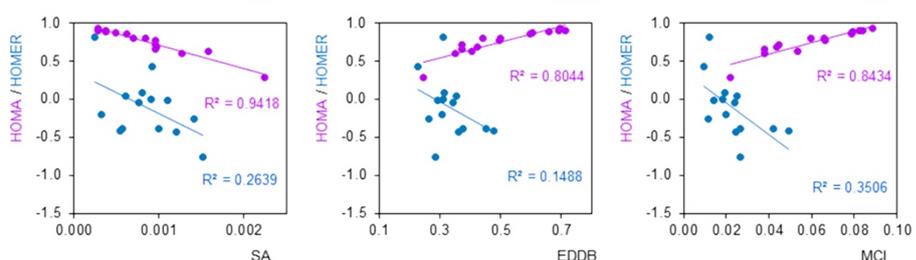
HOMER:
SD > 0.3
HOMA:
SD < 0.3



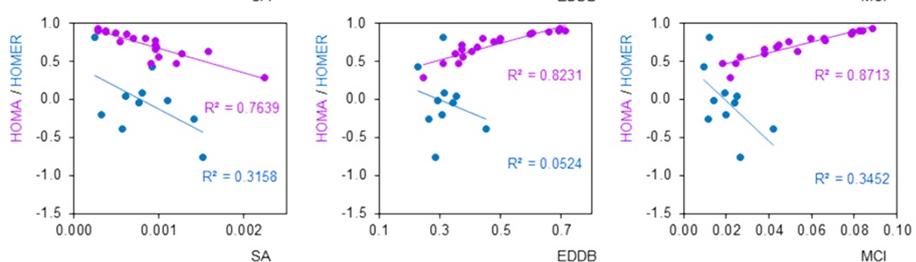
HOMER:
SD > 0.4
HOMA:
SD < 0.4



HOMER:
SD > 0.6
HOMA:
SD < 0.6



HOMER:
SD > 0.8
HOMA:
SD < 0.8



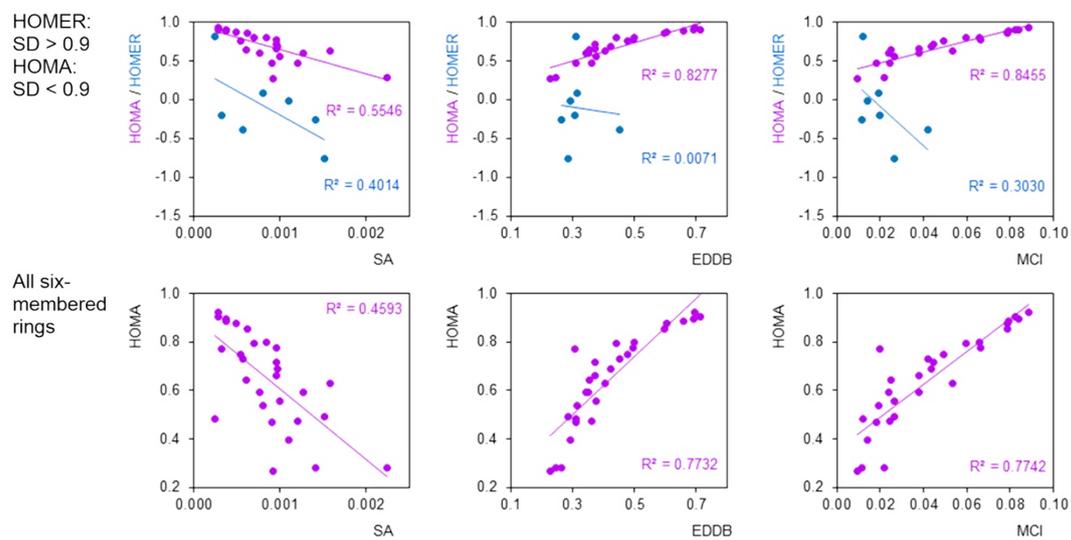


Figure S8. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and multicenter index (MCI) calculated for benzene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and one cyclobutadiene ring in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory.

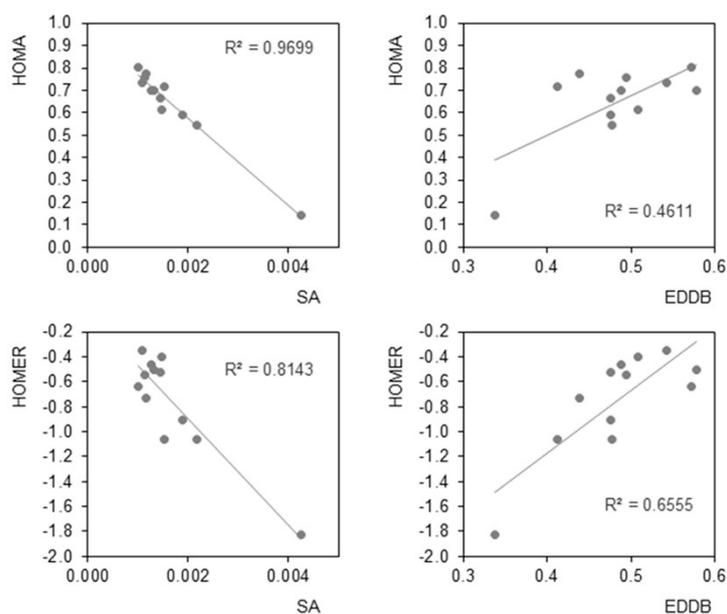


Figure S9. Correlations between HOMA/HOMER and Shannon aromaticity (SA) and electron density of delocalized bonds per atom (EDDB) calculated for molecular perimeter of polycycles composed of benzene ring(s) and one cyclobutadiene ring in their T_1 state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.

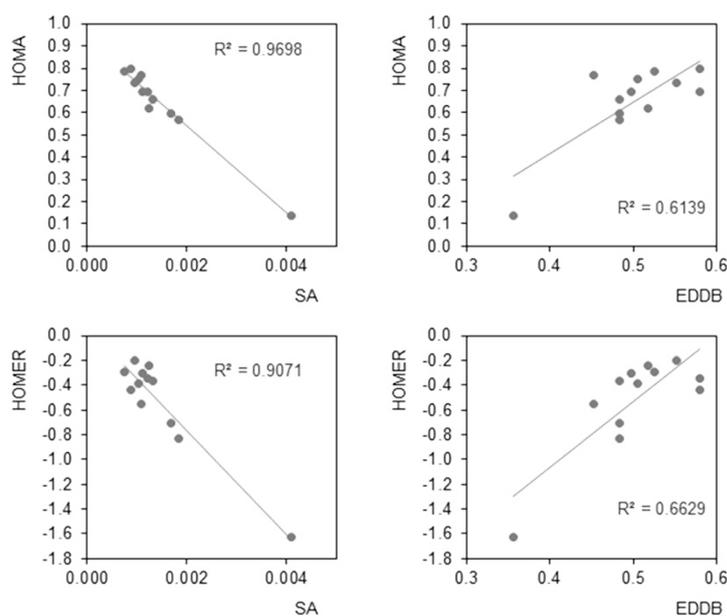


Figure S10. Correlations between HOMA/HOMER and Shannon aromaticity (SA) and electron density of delocalized bonds per atom (EDDB) calculated for molecular perimeter of polycycles composed of benzene ring(s) and one cyclobutadiene ring in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory.

Correlations for polycycles composed of benzene ring(s) and one cyclooctatetraene ring (T_1)

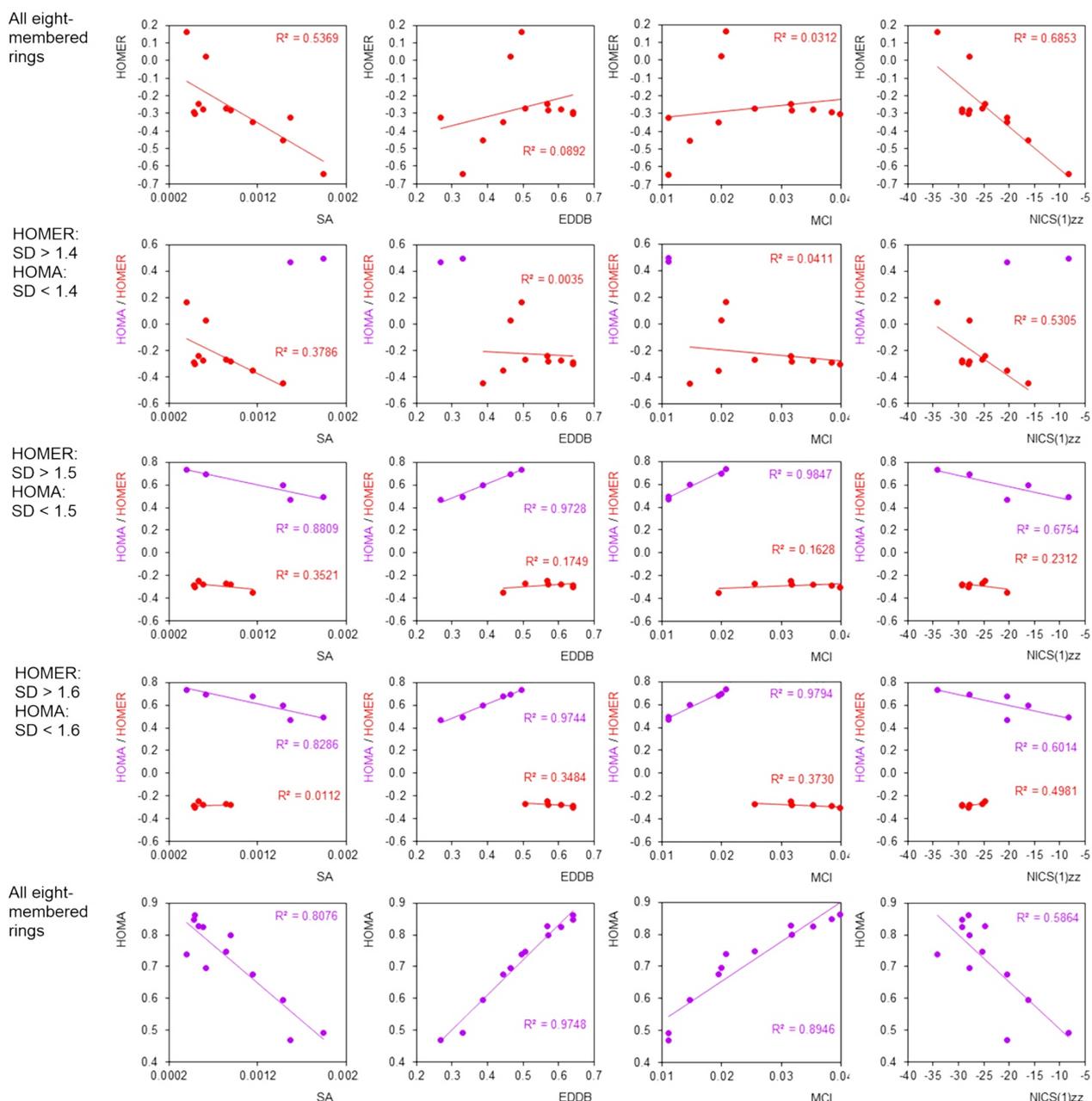


Figure S11. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for cyclooctatetraene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and one cyclooctatetraene ring in their T_1 state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.

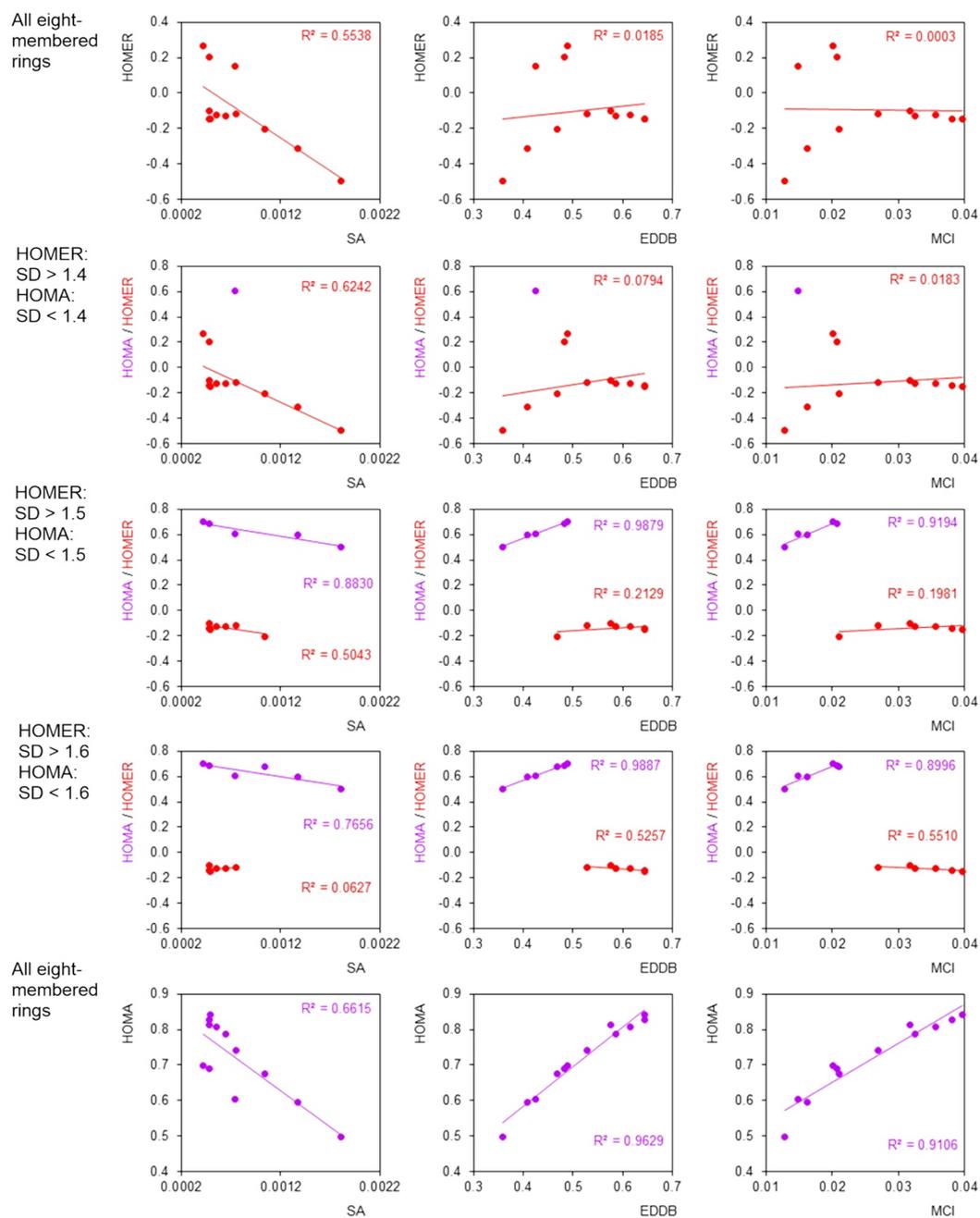


Figure S12. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and multicenter index (MCI) calculated for cyclooctatetraene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and one cyclooctatetraene ring in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory.

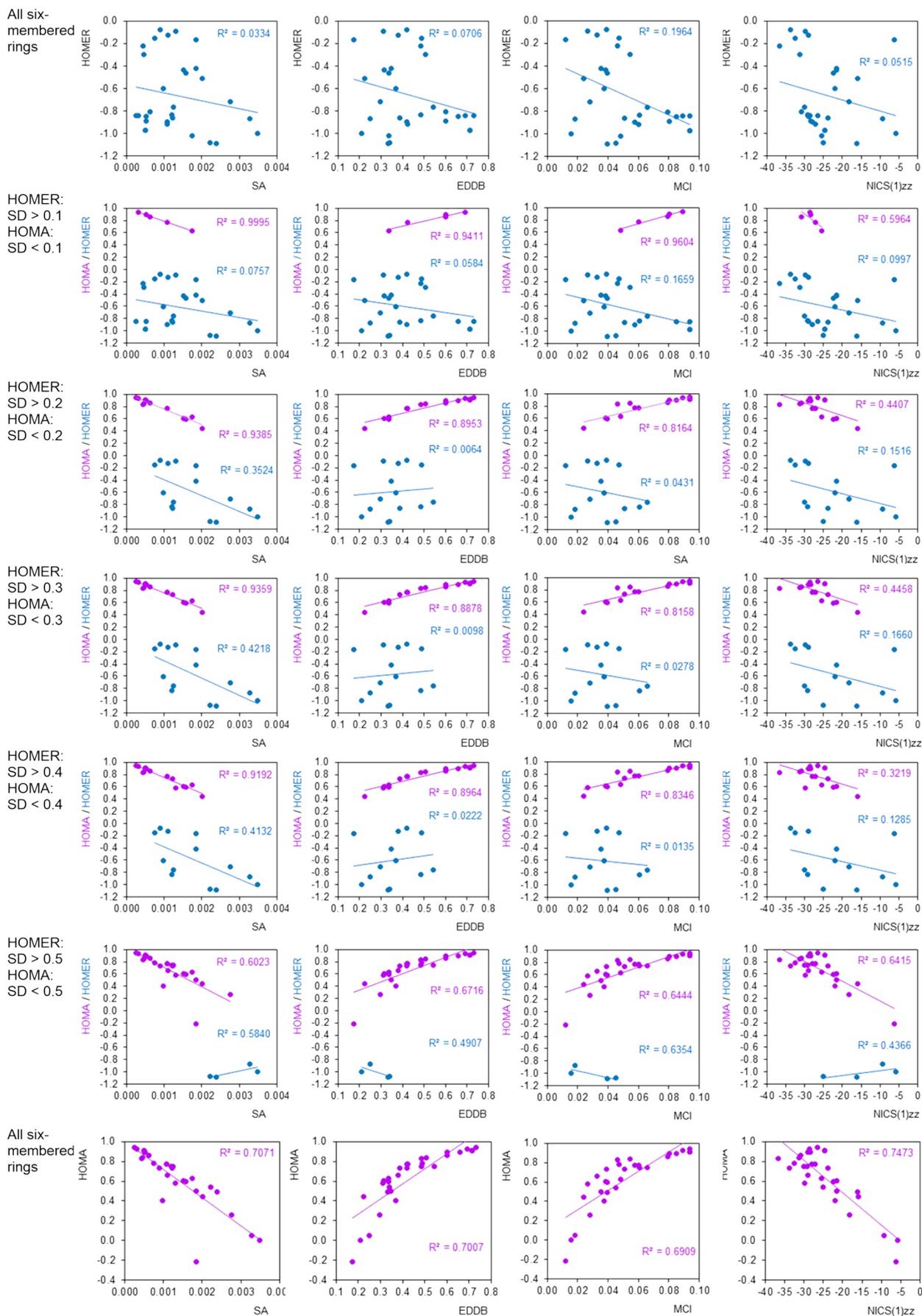


Figure S13. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for benzene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and one cyclooctatetraene ring in their T_1 state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.

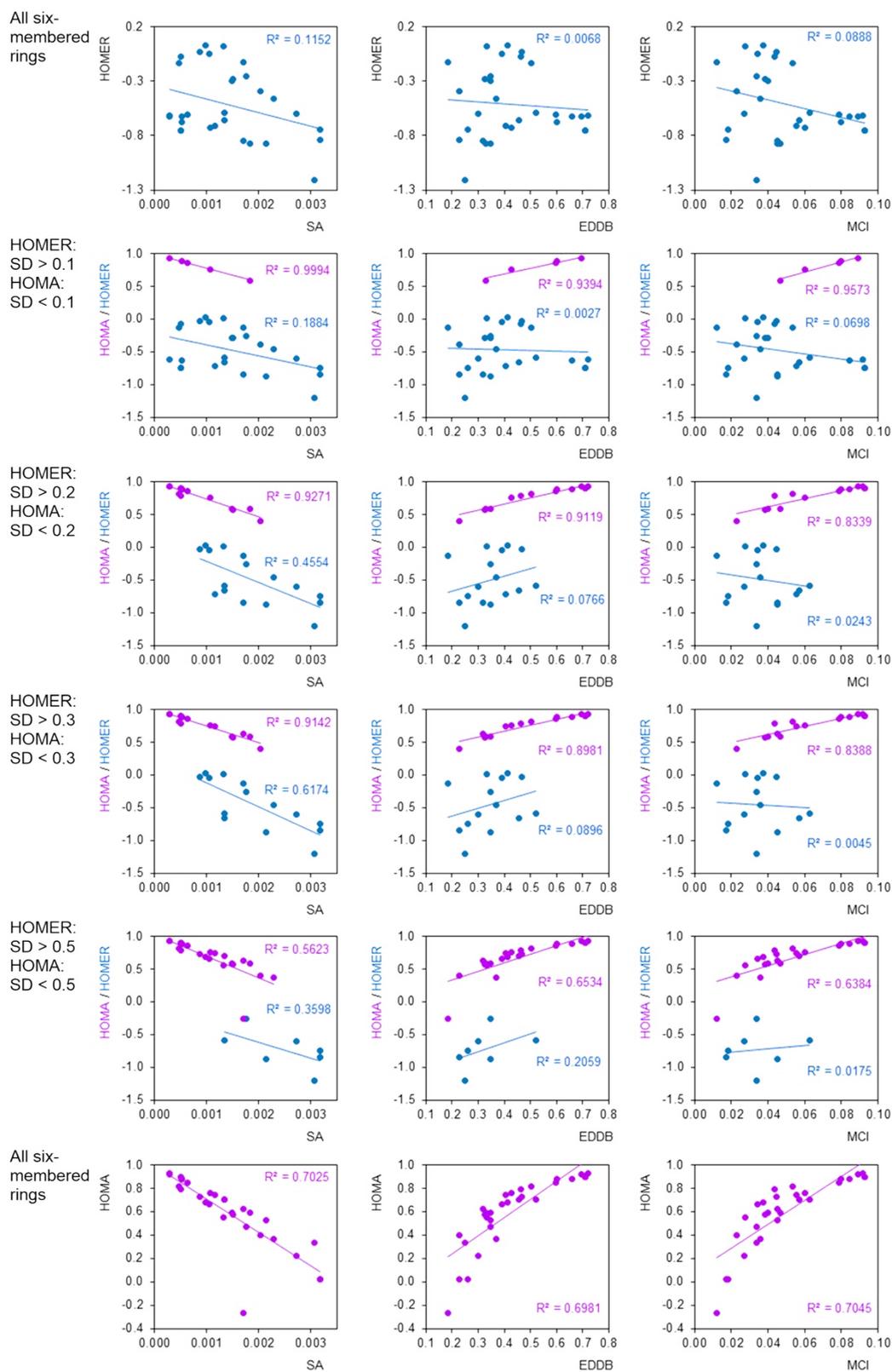


Figure S14. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and multicenter index (MCI) calculated for benzene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and one cyclooctatetraene ring in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory.

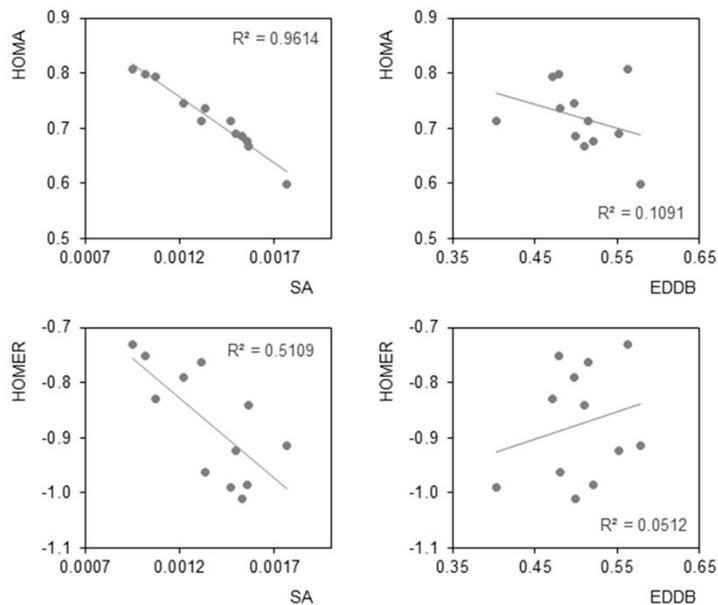


Figure S15. Correlations between HOMA/HOMER and Shannon aromaticity (SA) and electron density of delocalized bonds per atom (EDDB) calculated for molecular perimeter of polycycles composed of benzene ring(s) and one cyclooctatetraene ring in their T_1 state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.

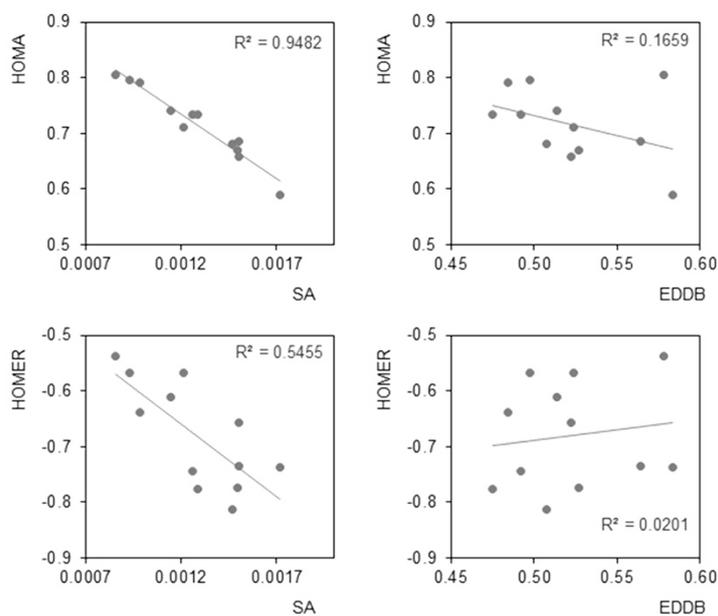


Figure S16. Correlations between HOMA/HOMER and Shannon aromaticity (SA) and electron density of delocalized bonds per atom (EDDB) calculated for molecular perimeter of polycycles composed of benzene ring(s) and one cyclooctatetraene ring in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory.

Correlations for polycycles composed of benzene ring(s) and pentalene core (T₁)

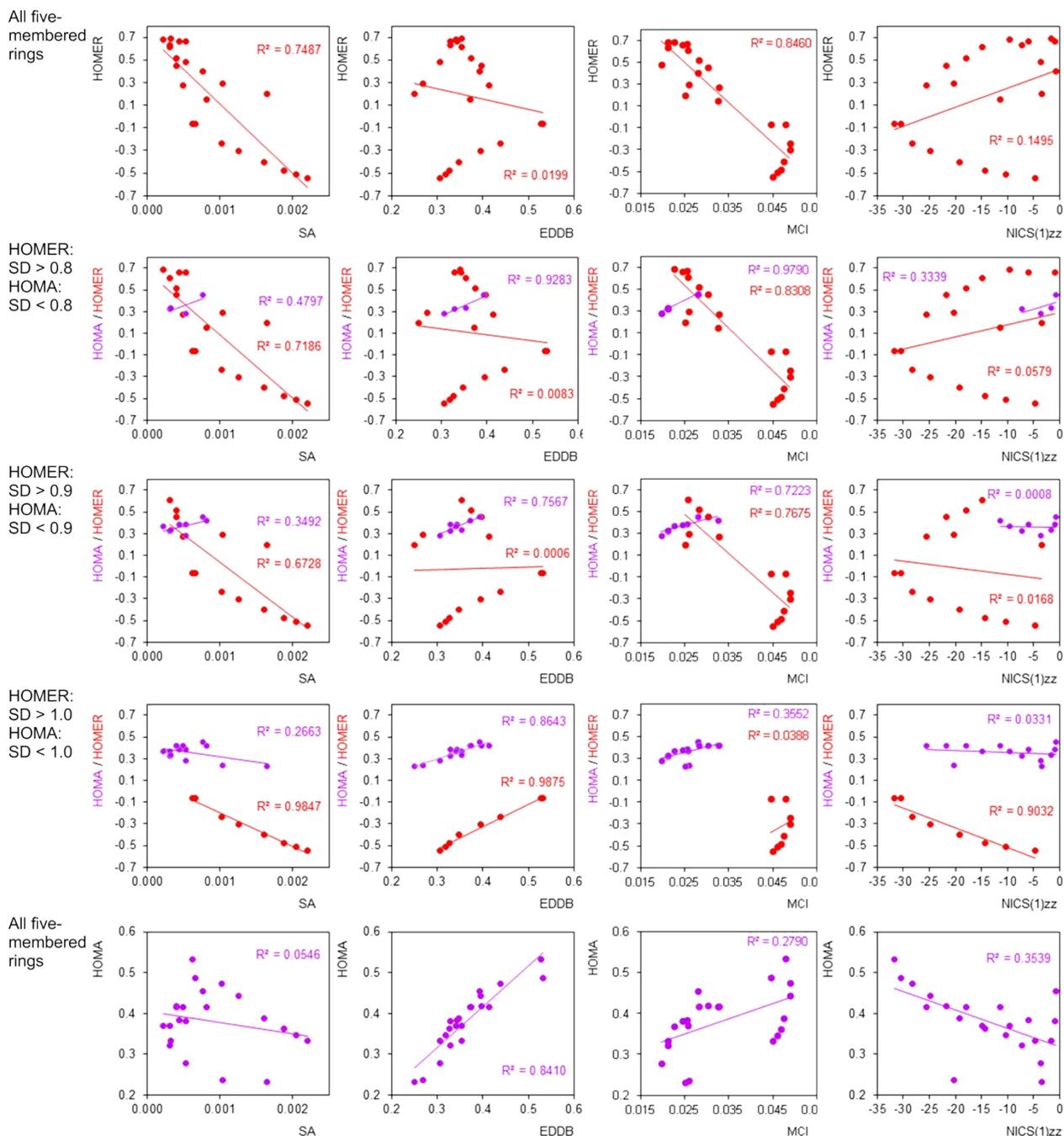


Figure S17. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for five-membered rings with different spin densities (SD) of polycycles composed of benzene ring(s) and pentalene core in their T₁ state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory. Pentalene is included in correlations.

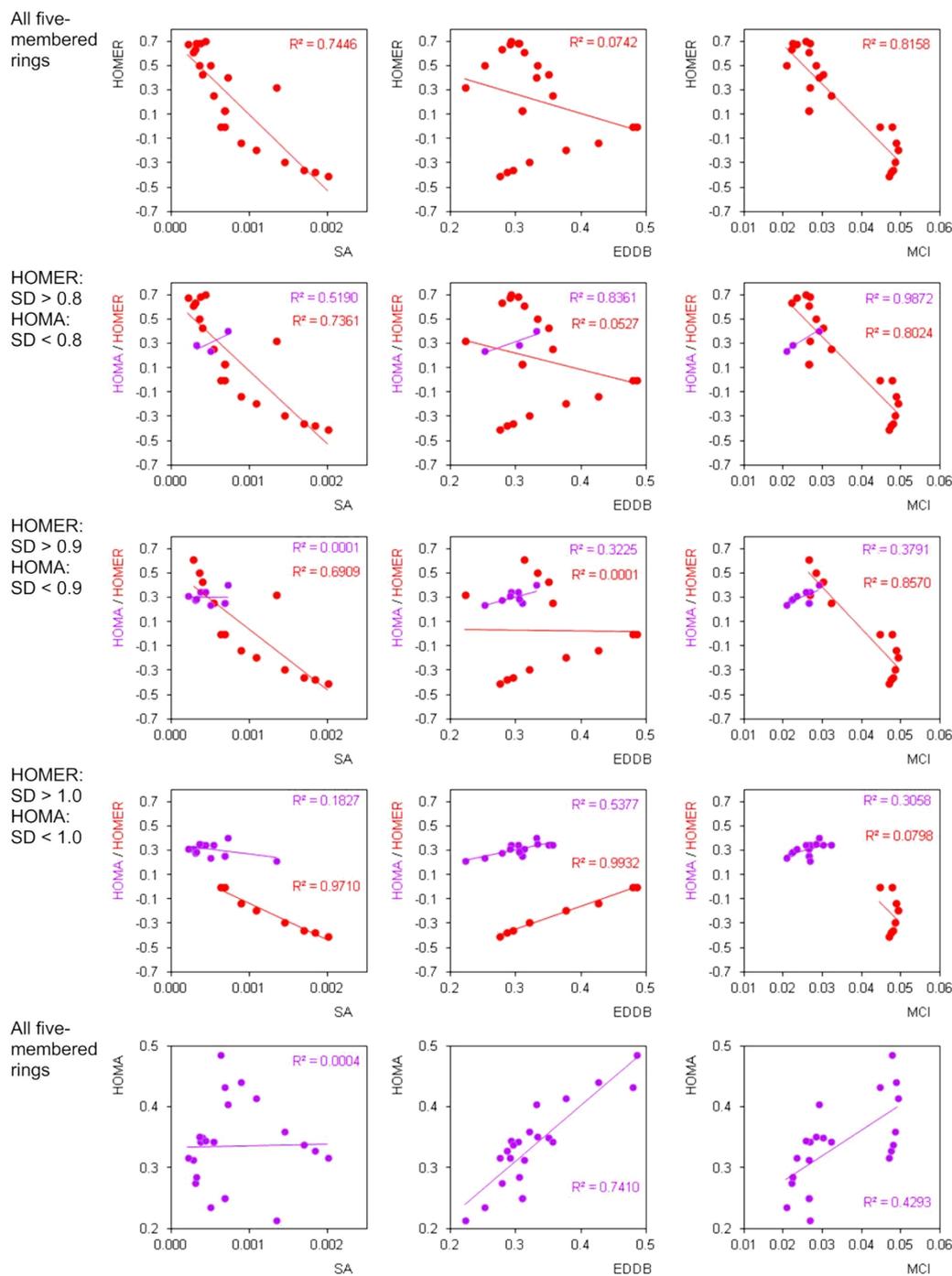


Figure S18. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and multicenter index (MCI) and calculated for five-membered rings with different spin densities (SD) of polycycles composed of benzene ring(s) and pentalene core in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory. Pentalene is included in correlations.

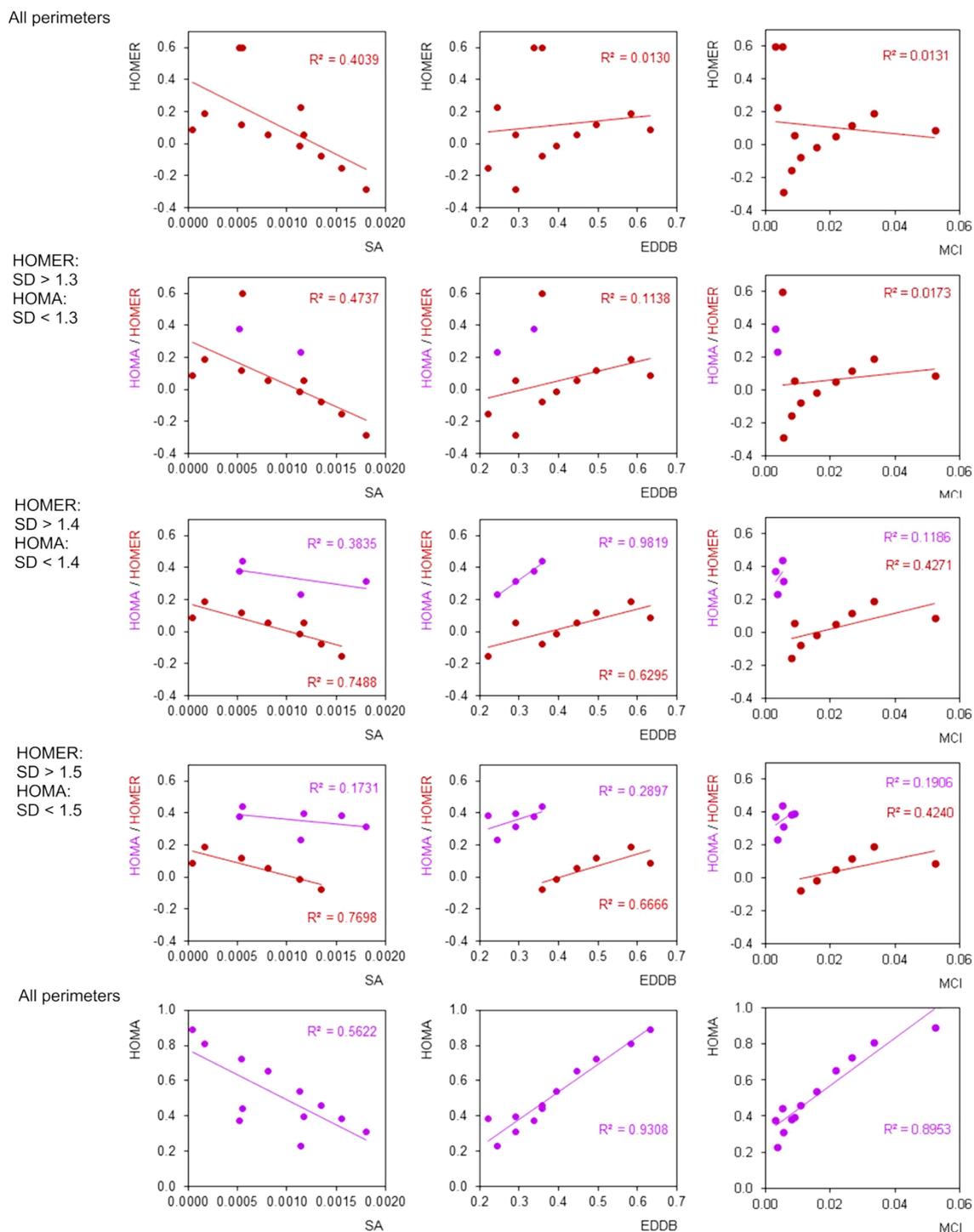


Figure S19. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and multicenter index (MCI) calculated for perimeter of pentalene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and pentalene core in their T_1 state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory. Pentalene is included in correlations.

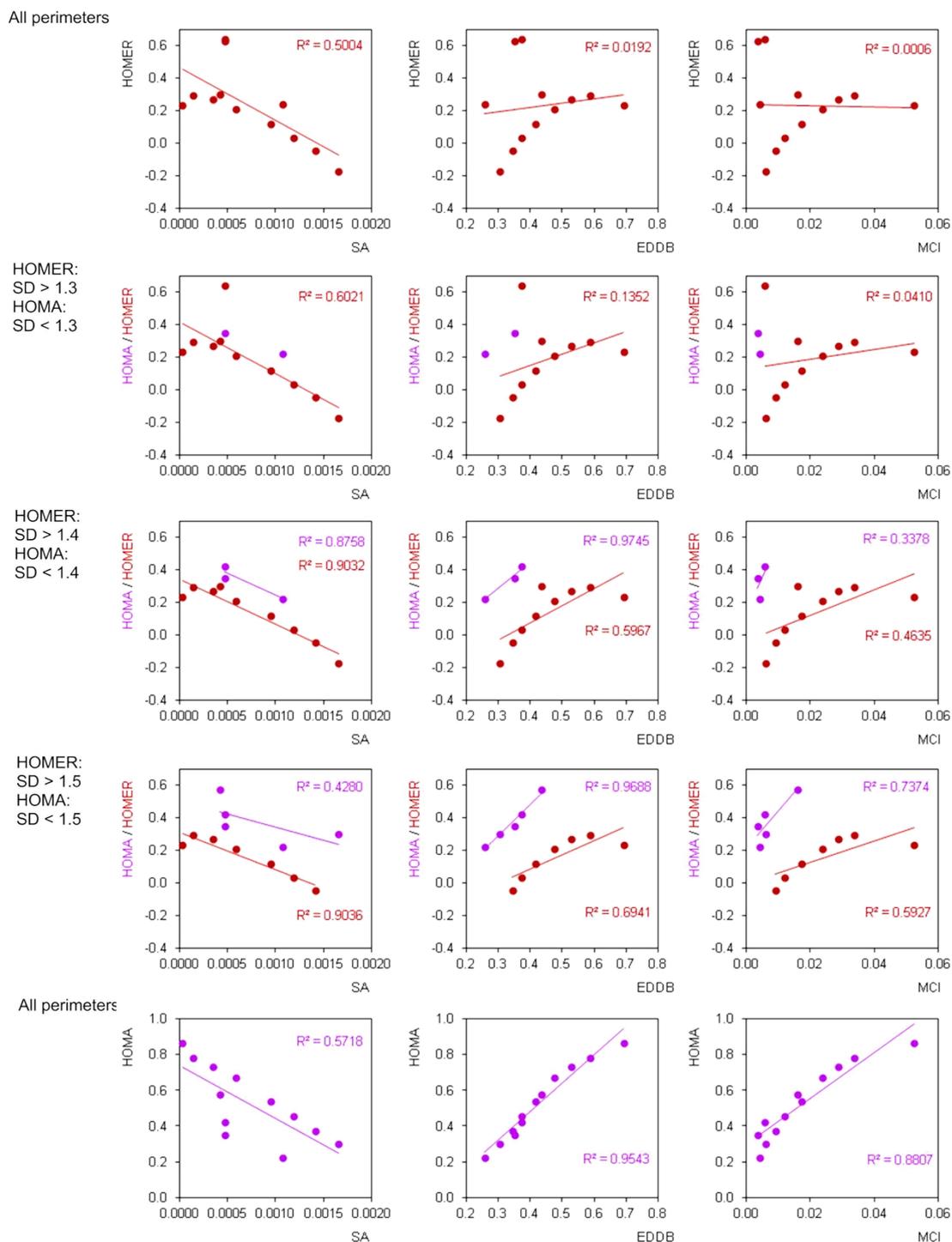


Figure S20. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and multicenter index (MCI) calculated for perimeter of pentalene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and pentalene core in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory. Pentalene is included in correlations.

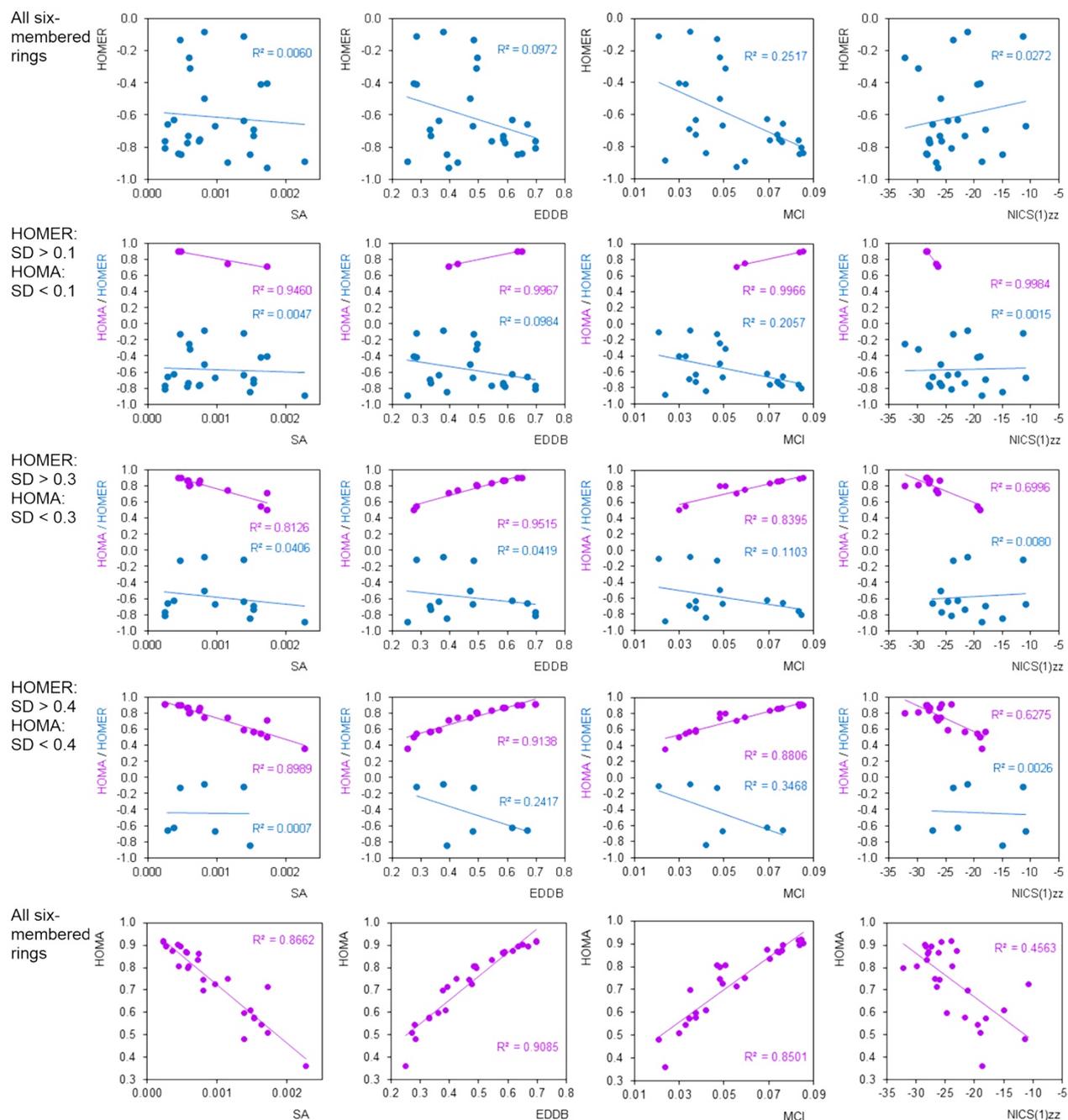
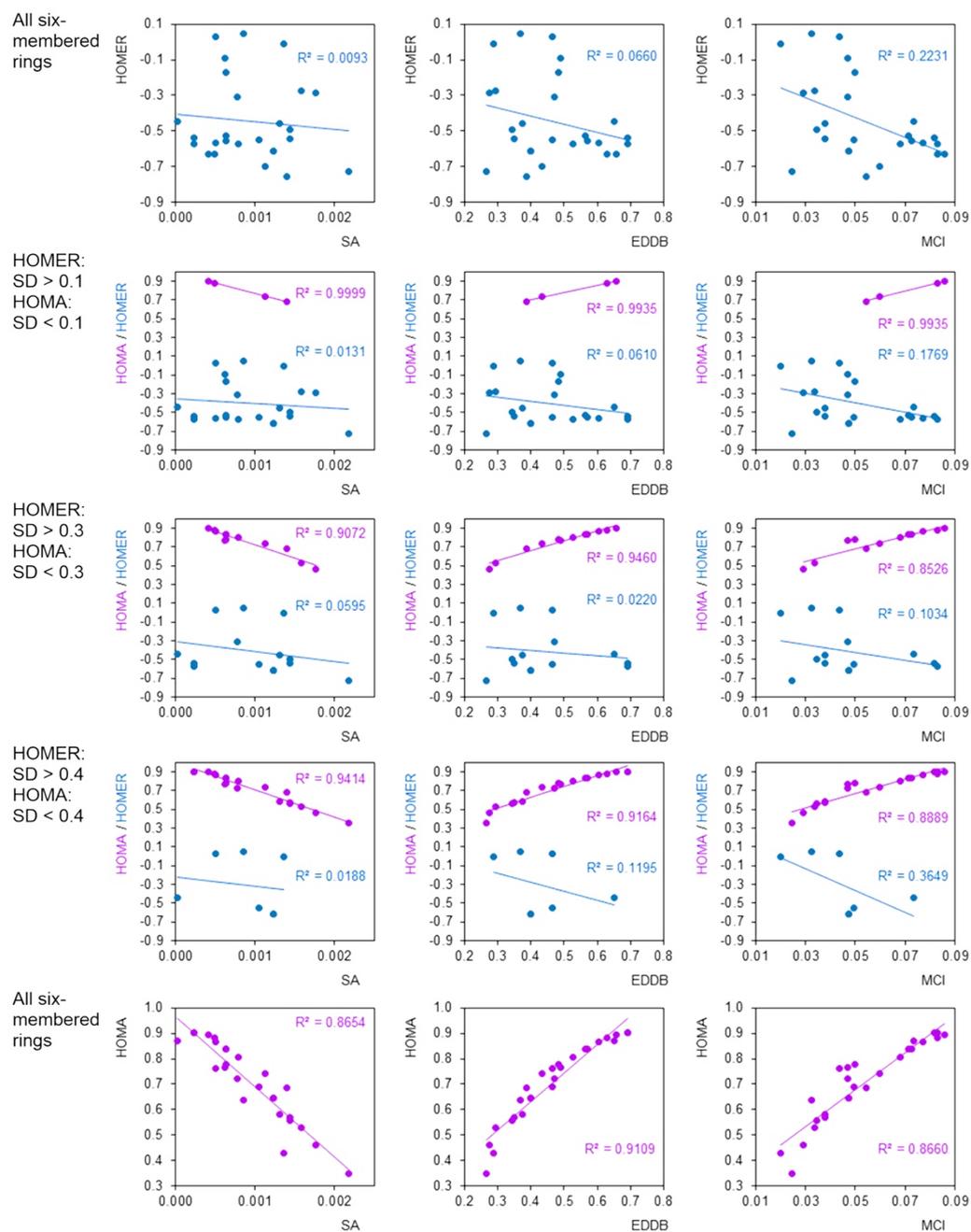


Figure S21. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for benzene subunits with different spin densities (SD) of polycycles composed of benzene ring(s) and pentalene core in their T₁ state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.



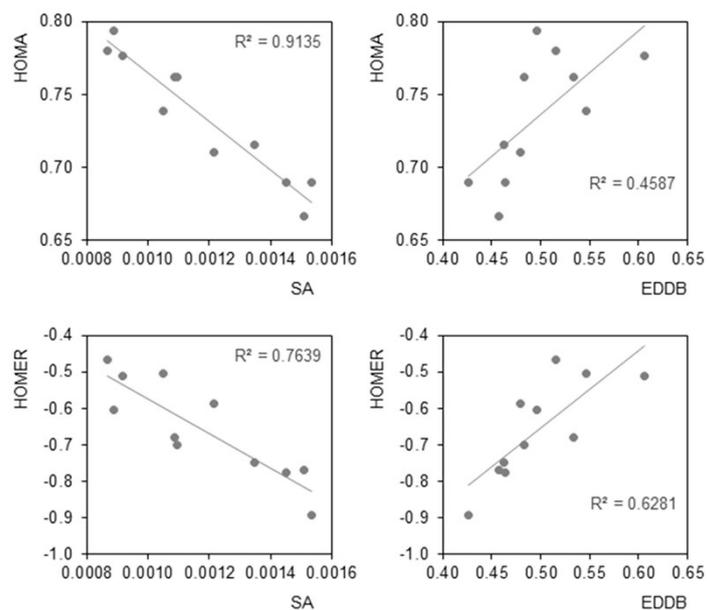


Figure S23. Correlations between HOMA/HOMER and Shannon aromaticity (SA) and electron density of delocalized bonds per atom (EDDB) calculated for molecular perimeter of polycycles composed of benzene ring(s) and pentalene core in their T_1 state. Calculations were performed at the UCAM-B3LYP/6-311+G(d,p) level of theory.

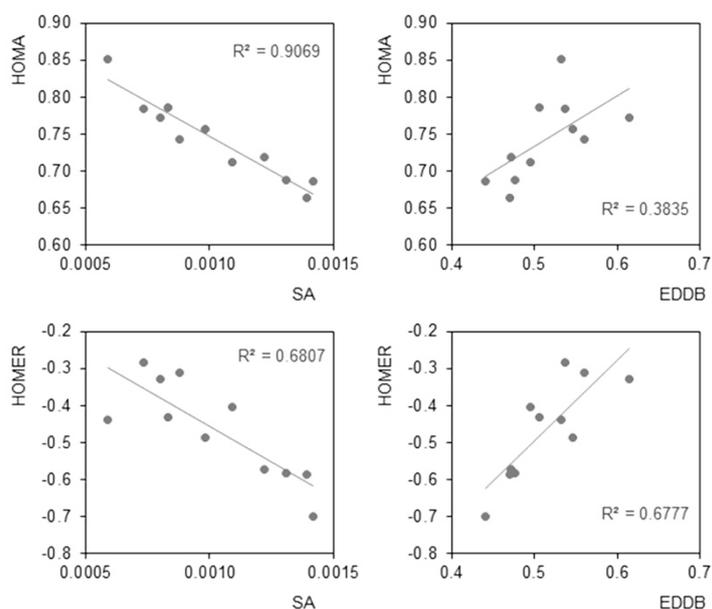


Figure S24. Correlations between HOMA/HOMER and Shannon aromaticity (SA) and electron density of delocalized bonds per atom (EDDB) calculated for molecular perimeter of polycycles composed of benzene ring(s) and pentalene core in their T_1 state. Calculations were performed at the UM06-2X/6-311+G(d,p) level of theory.

Correlations for polybenzenoid compounds (S_0)

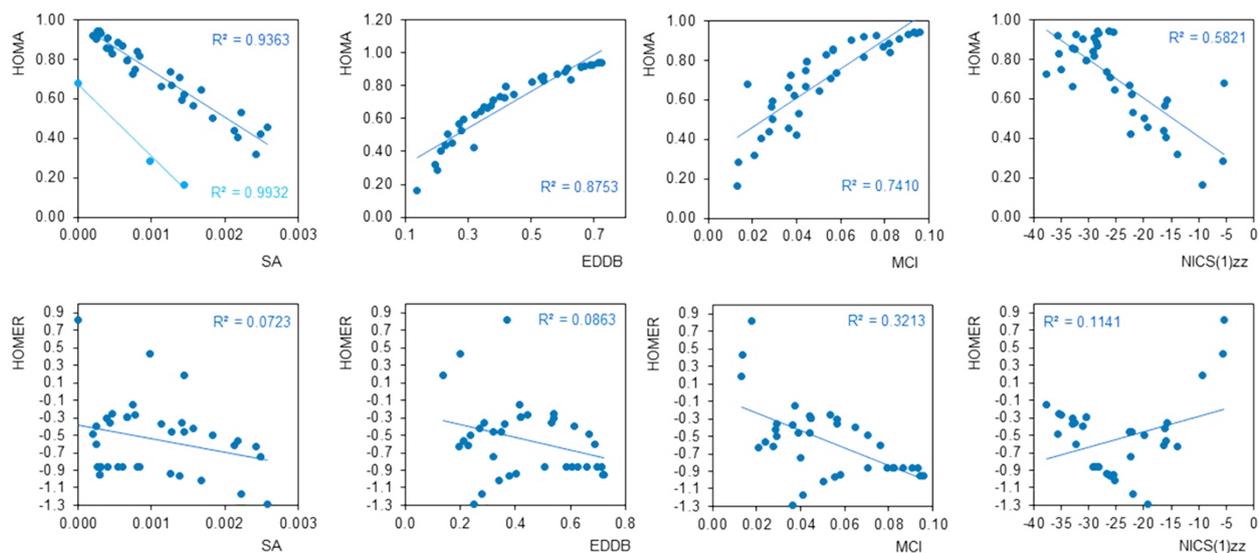


Figure S25. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for individual rings of polybenzenoid systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Light blue corresponds to the central rings of triphenylene, benzo[e]pyrene and coronene.

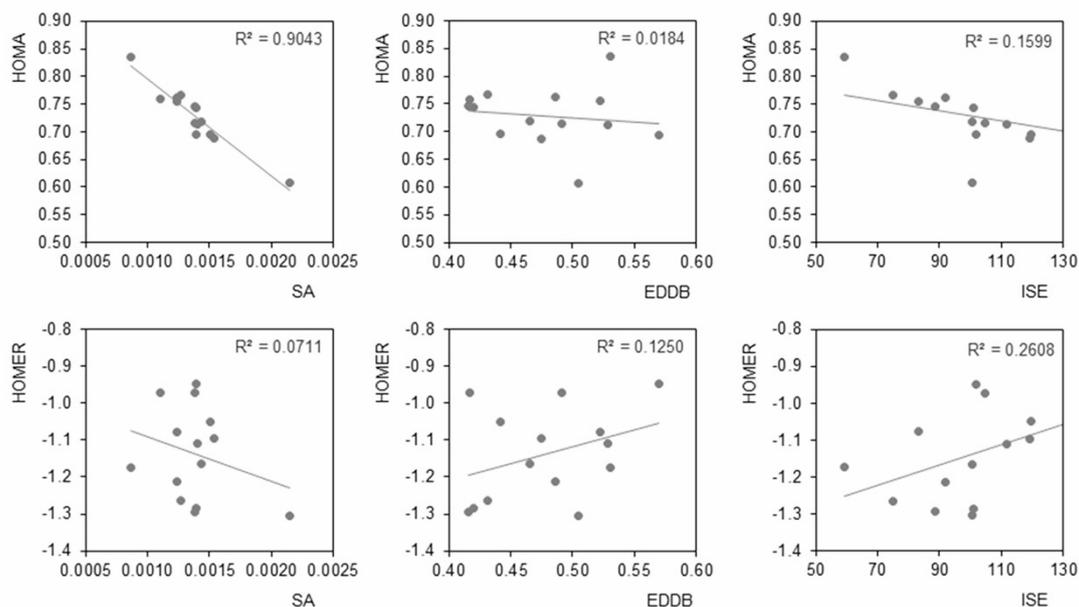


Figure S26. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and isomerization stabilization energy (ISE) calculated for molecular perimeter of polybenzenoid systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. ISE schemes are shown in Figure S37.

Correlations for polycycles composed of benzene ring(s) and one cyclobutadiene ring (S_0)

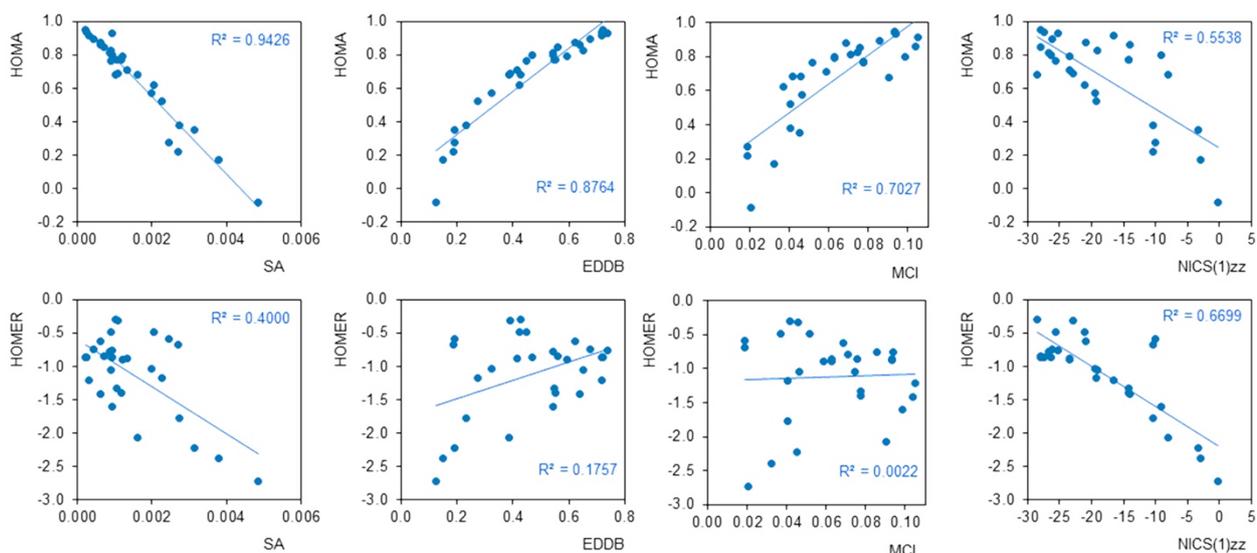


Figure S27. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for six-membered rings of polycycles composed of benzene ring(s) and one cyclobutadiene ring in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory.

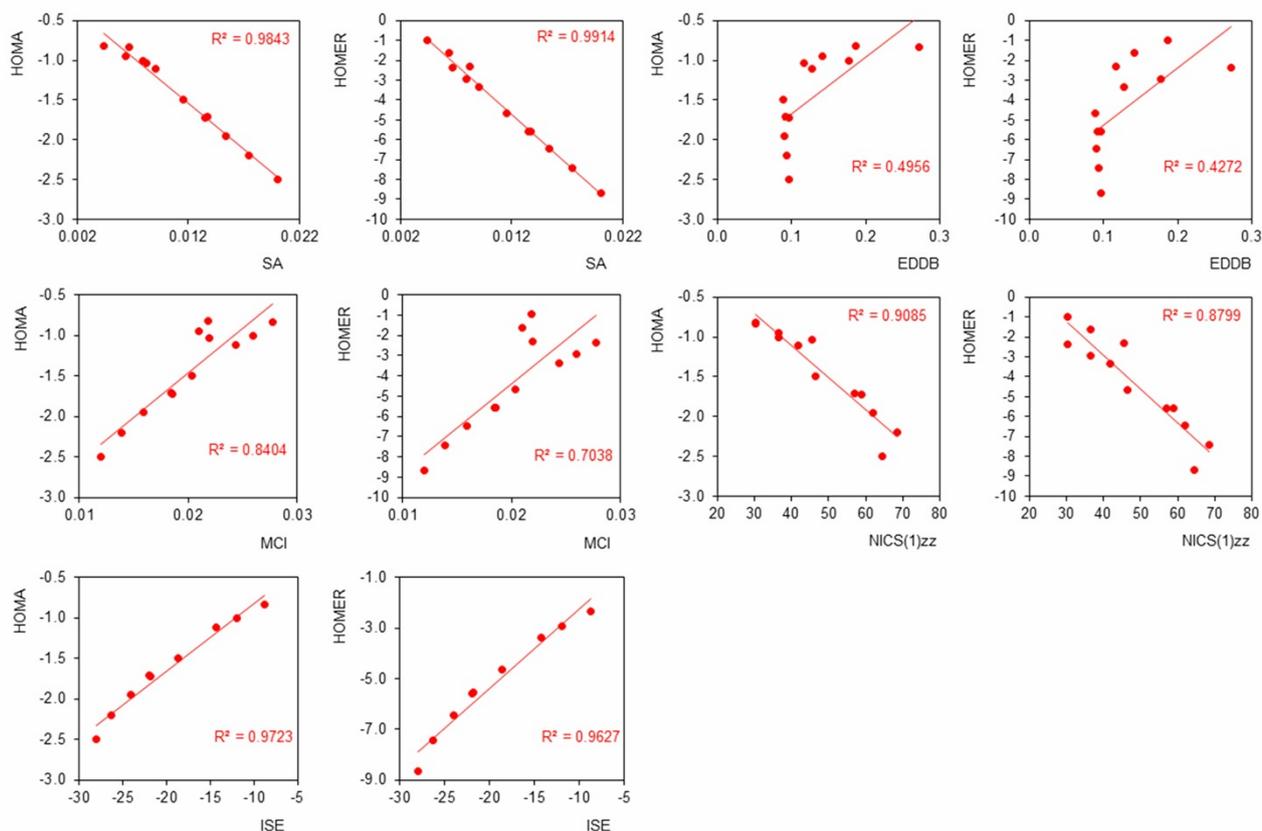


Figure S28. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI), NICS(1)_{zz} and isomerization stabilization energy (ISE) calculated for four-membered rings of polycycles composed of benzene ring(s) and one cyclobutadiene ring in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. The systems involved in correlations with ISE are shown in Figure S38.

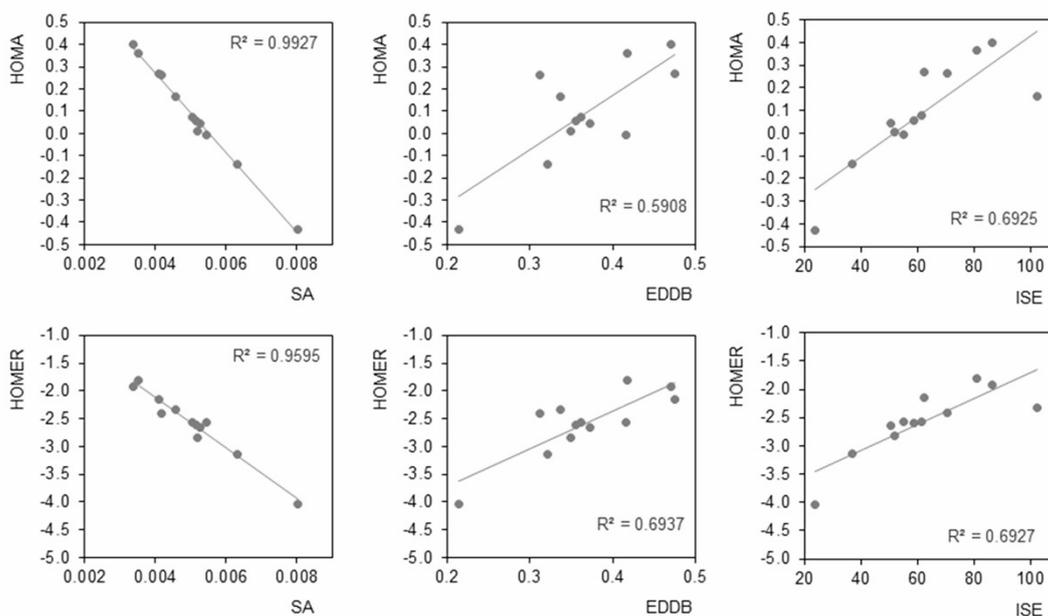


Figure S29. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and isomerization stabilization energy (ISE) calculated for molecular perimeter of polycycles composed of benzene ring(s) and one cyclobutadiene ring in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. ISE schemes are shown in Figure S39.

Correlations for polycycles composed of benzene ring(s) and one cyclooctatetraene ring (S_0)

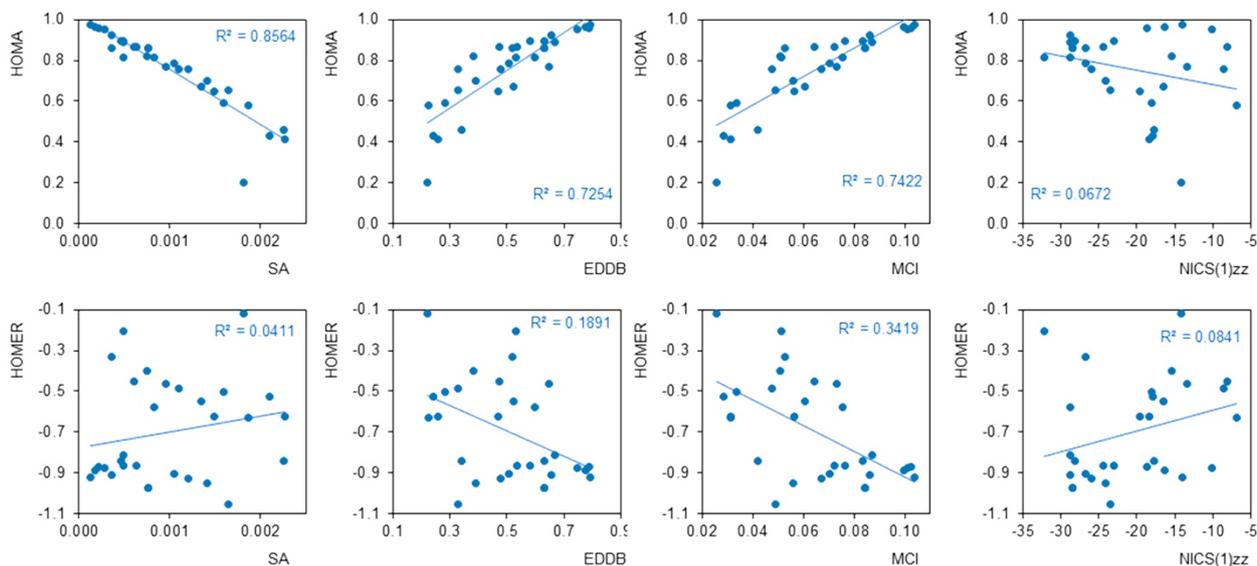


Figure S30. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for benzene subunits of polycycles composed of benzene ring(s) and one cyclooctatetraene ring in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory.

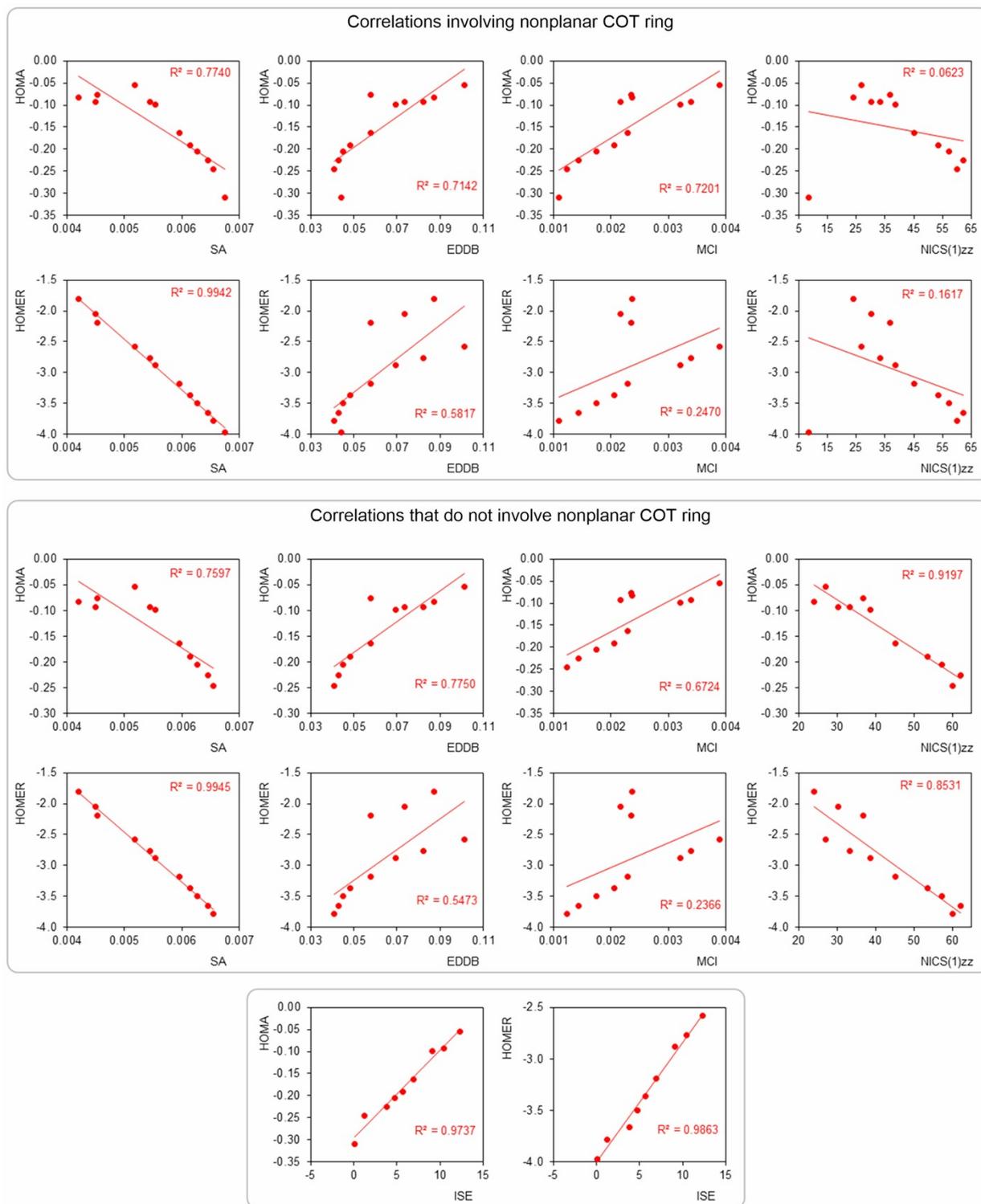


Figure S31. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI), NICS(1)_{zz} and isomerization stabilization energy (ISE) calculated for cyclooctatetraene subunits of polycycles composed of benzene ring(s) and one cyclooctatetraene ring in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. The systems involved in correlations with ISE are shown in Figure S40.

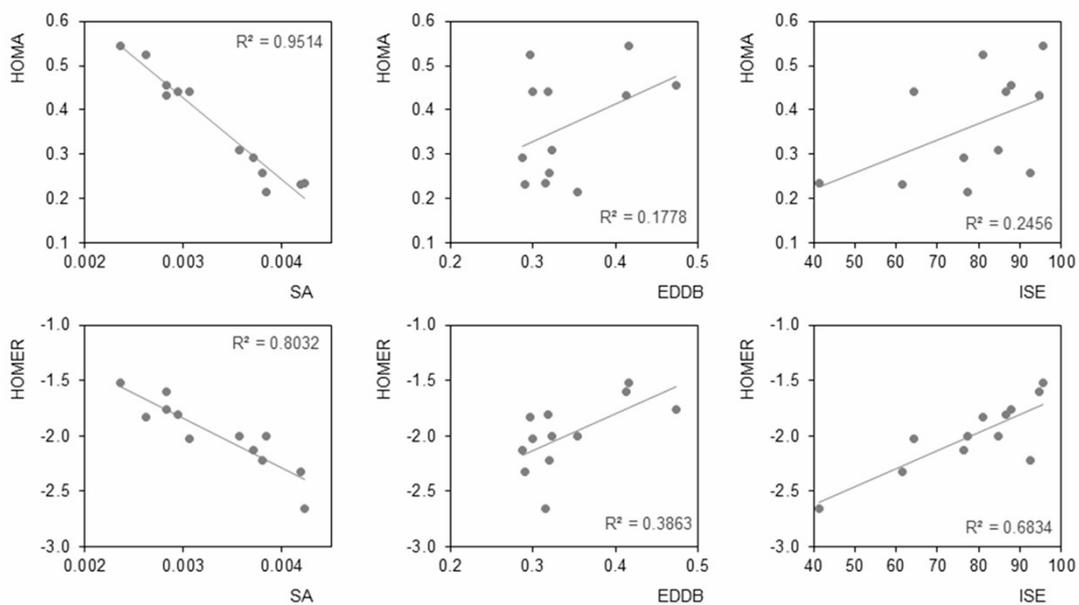


Figure S32. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and isomerization stabilization energy (ISE) calculated for molecular perimeter of polycycles composed of benzene ring(s) and one cyclooctatetraene ring in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. ISE schemes are shown in Figure S41.

Correlations for polycycles composed of benzene ring(s) and pentalene core (S_0)

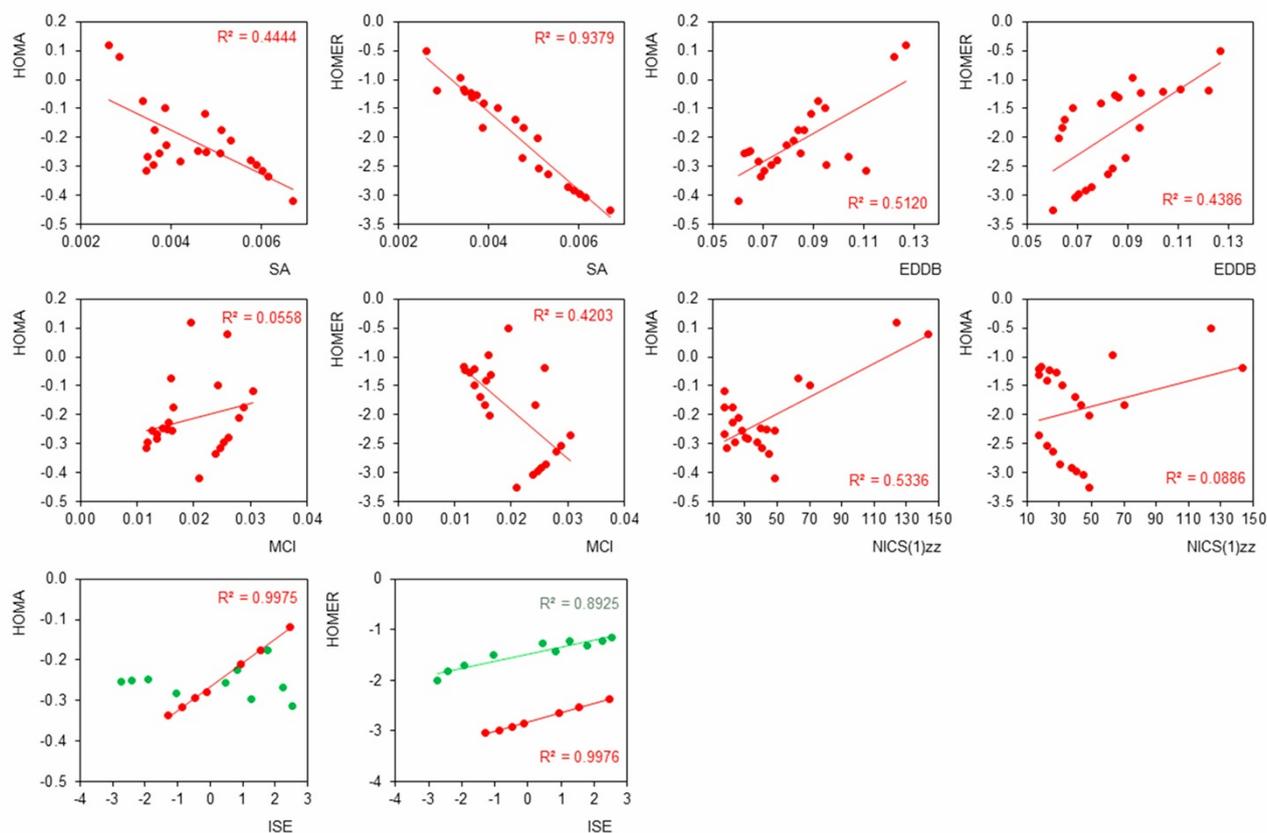


Figure S33. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI), NICS(1)_{zz} and isomerization stabilization energy (ISE) calculated for five-membered rings of polycycles composed of benzene ring(s) and pentalene core in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Pentalene is included in correlations, except for ISE when R^2 values decrease to 0.8762 and 0.8572 for HOMA and HOMER, respectively. For ISE, red color is used for correlations that involve the outer ring and green color for correlations that involve the inner ring (also see Figure S42).

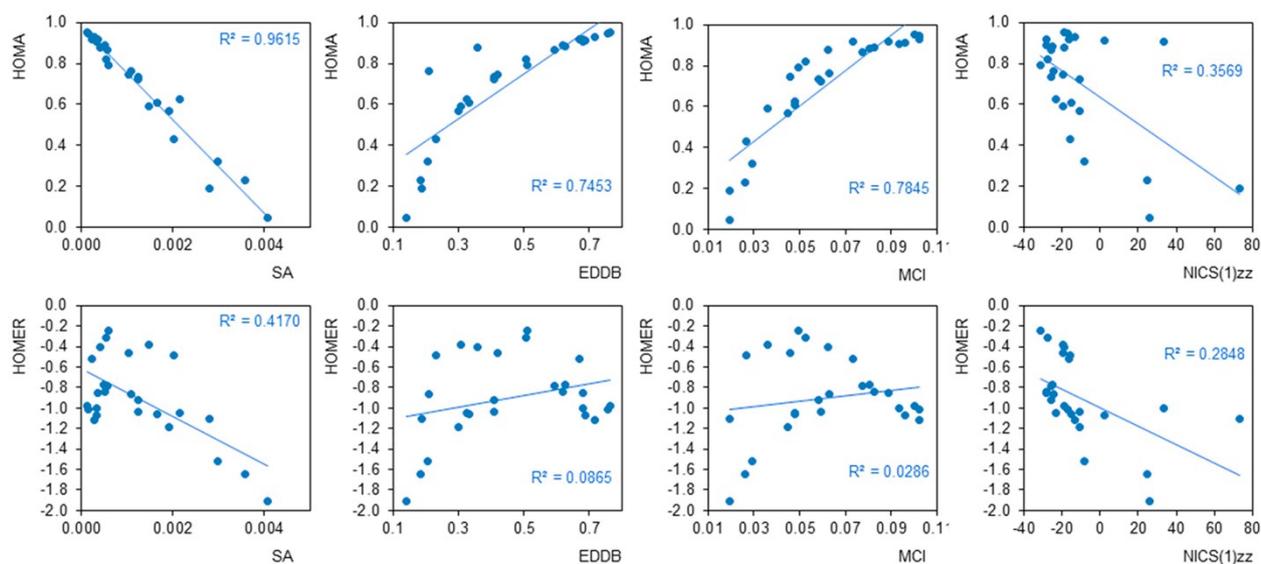


Figure S34. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and NICS(1)_{zz} calculated for benzene subunits of polycycles composed of benzene ring(s) and pentalene core in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory.

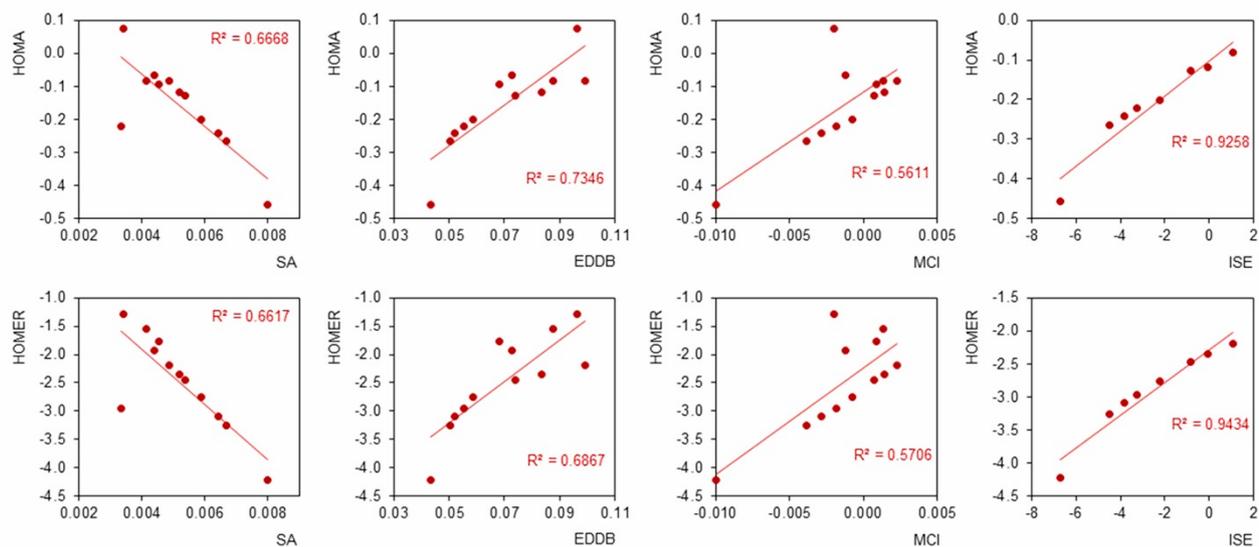


Figure S35. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB), multicenter index (MCI) and isomerization stabilization energy (ISE) calculated for perimeter of pentalene subunits of polycycles composed of benzene ring(s) and pentalene core in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Pentalene is included in correlations. The systems involved in correlations with ISE are shown in Figure S43.

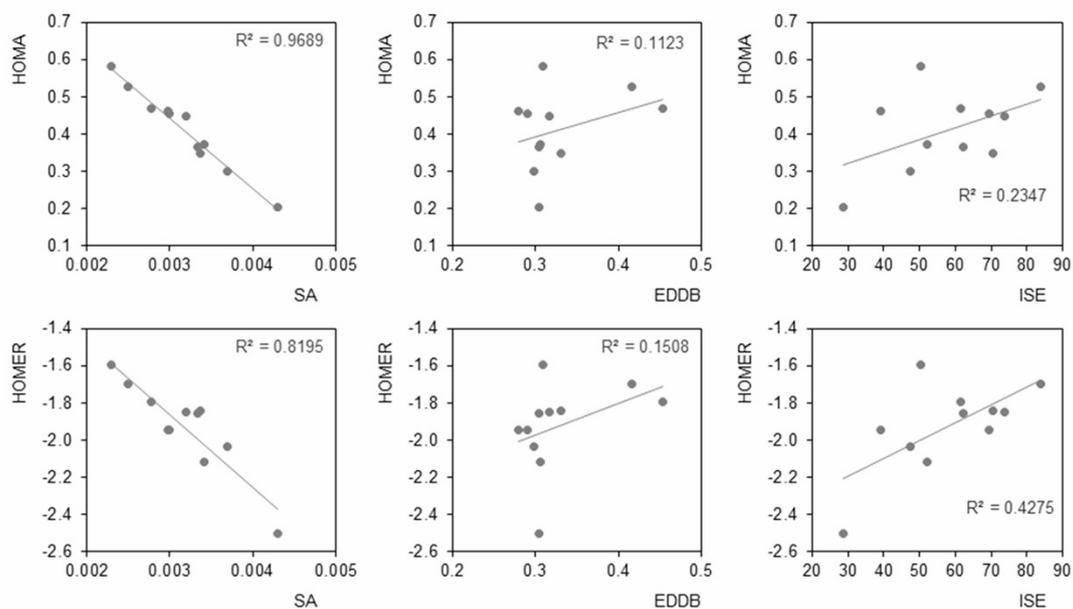


Figure S36. Correlations between HOMA/HOMER and Shannon aromaticity (SA), electron density of delocalized bonds per atom (EDDB) and isomerization stabilization energy (ISE) calculated for molecular perimeter of polycycles composed of benzene ring(s) and pentalene core in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. ISE schemes are shown in Figure S44.

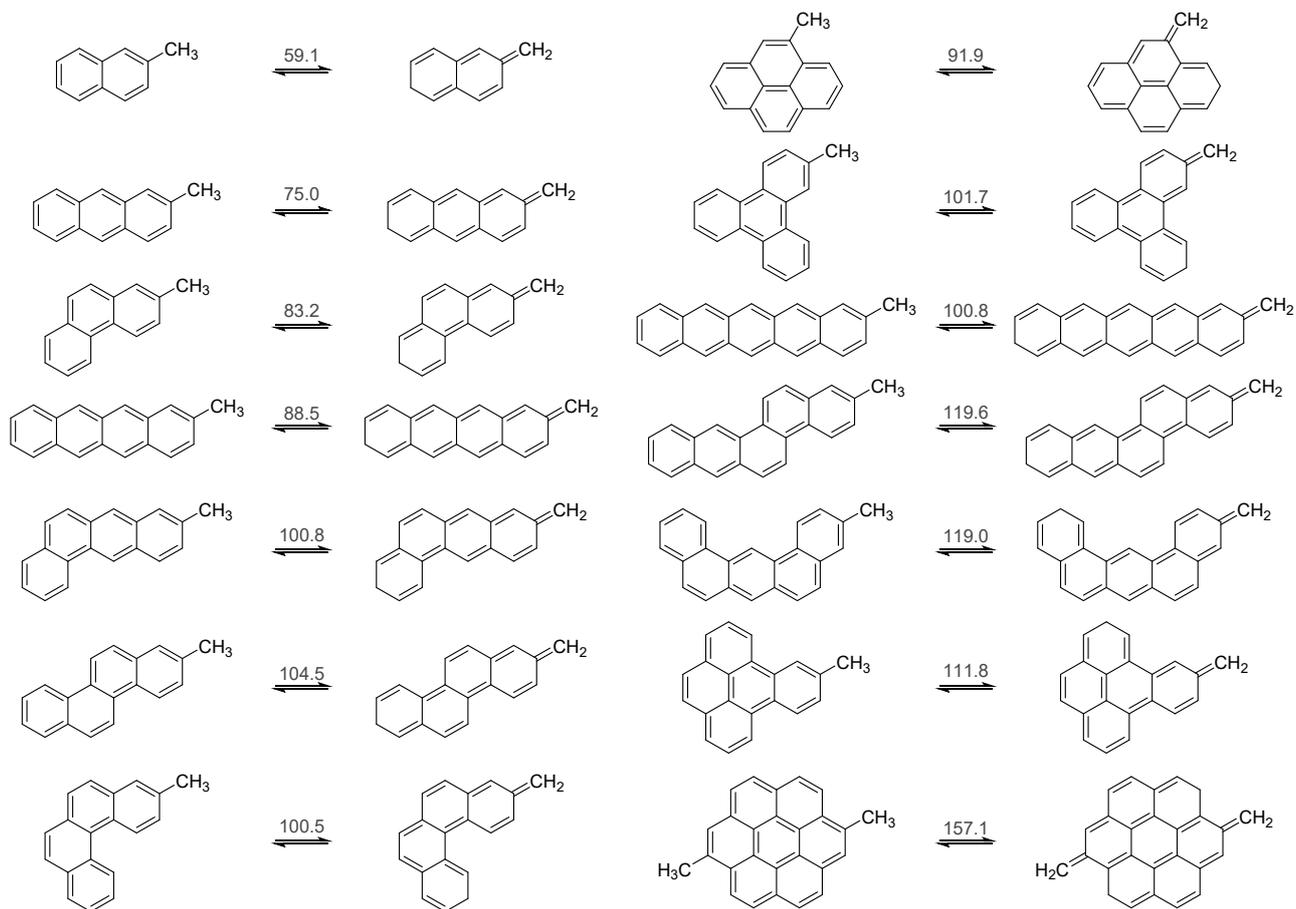


Figure S37. Calculated values of isomerization stabilization energies (kcal/mol) used to study the (anti)aromaticity of molecular perimeter of the given systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Values include ZPE correction and correction for *syn/anti* mismatch.

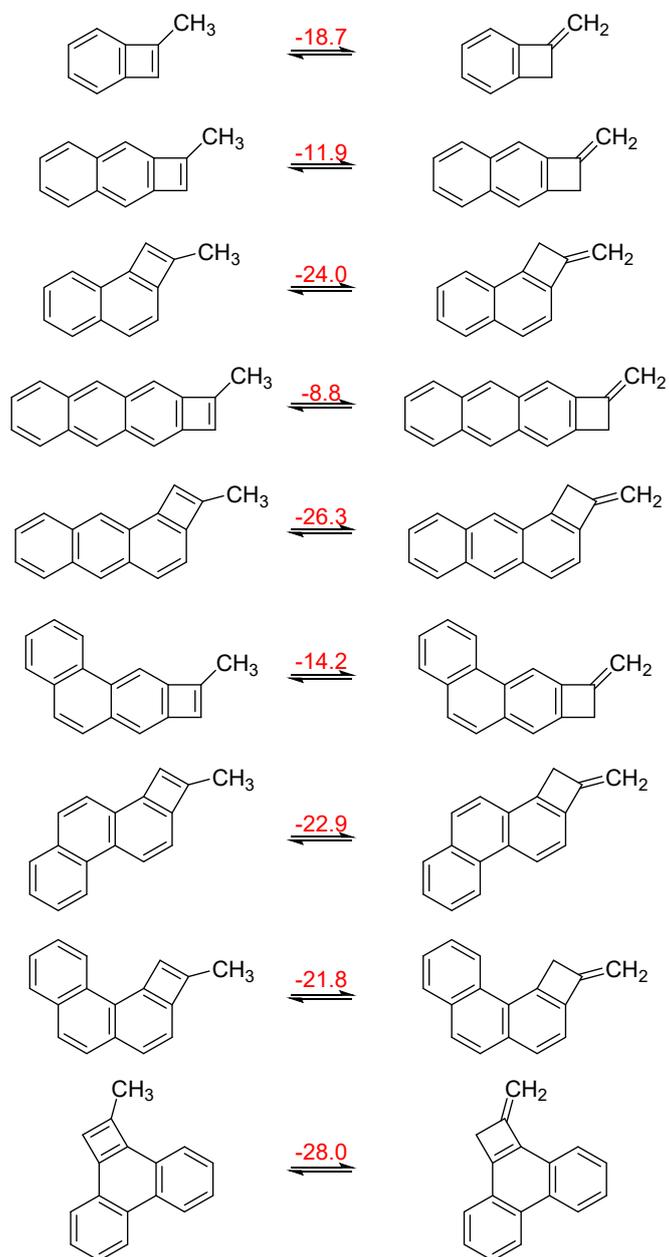


Figure S38. Calculated values of isomerization stabilization energies (kcal/mol) used to study the antiaromaticity of cyclobutadiene subunits of the given systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Values include ZPE correction.

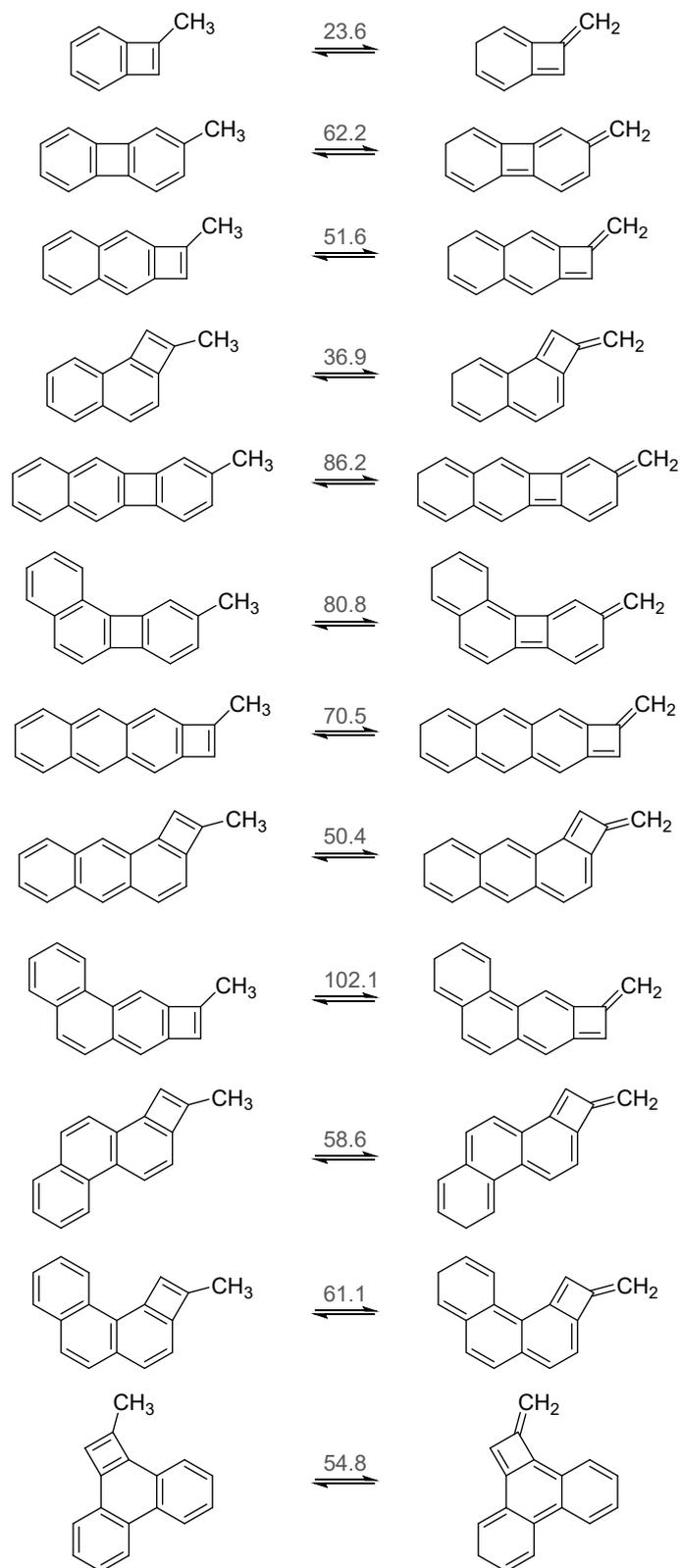


Figure S39. Calculated values of isomerization stabilization energies (kcal/mol) used to study the (anti)aromaticity of molecular perimeter of the given systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Values include ZPE correction and correction for *syn/anti* mismatch.

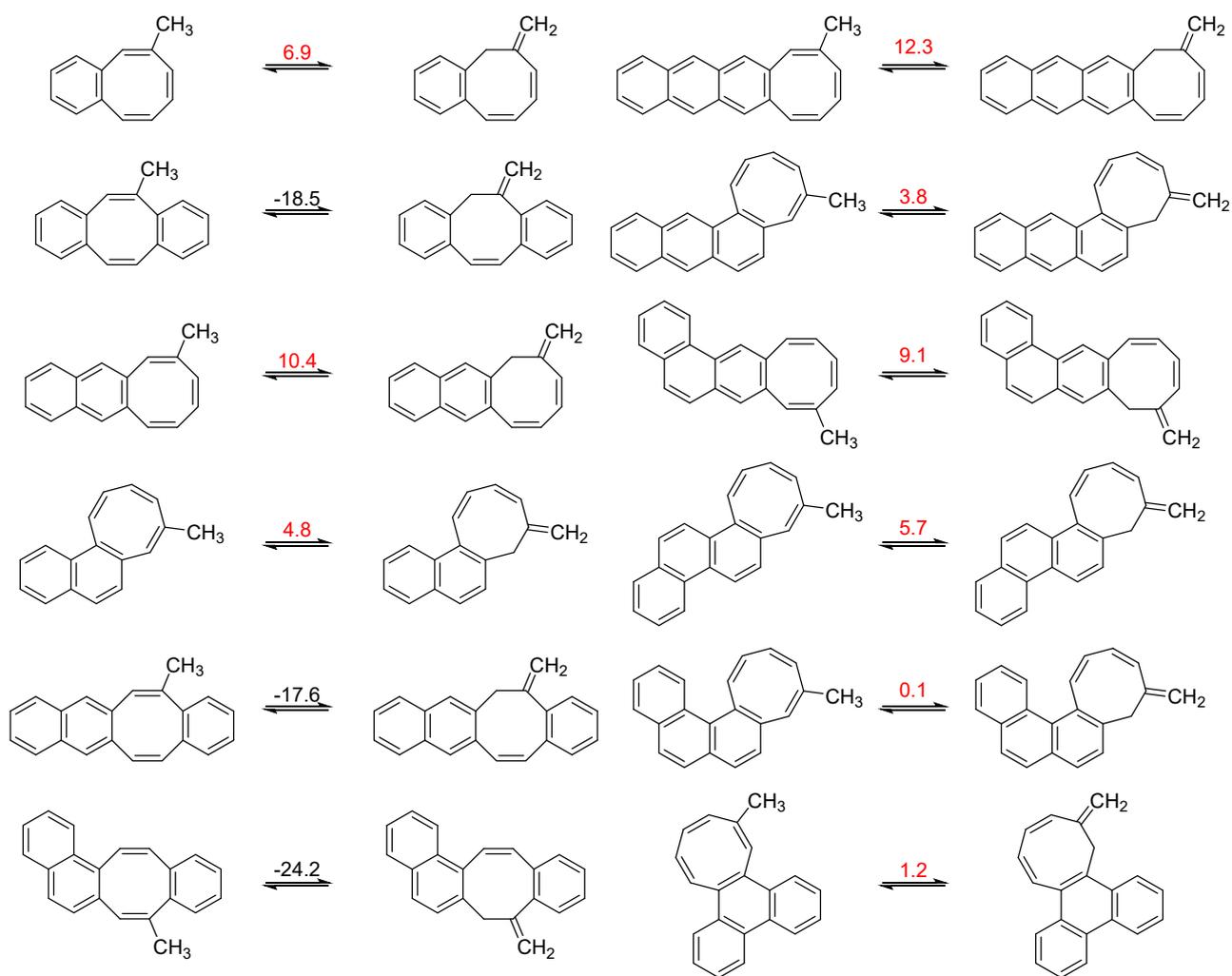


Figure S40. Calculated values of isomerization stabilization energies (kcal/mol) used to study the (anti)aromaticity of cyclooctatetraene subunits of the given systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Values in black are for systems for which methylene isomers are nonplanar, but methyl isomers are planar. They are not included in correlations. Values include ZPE correction.

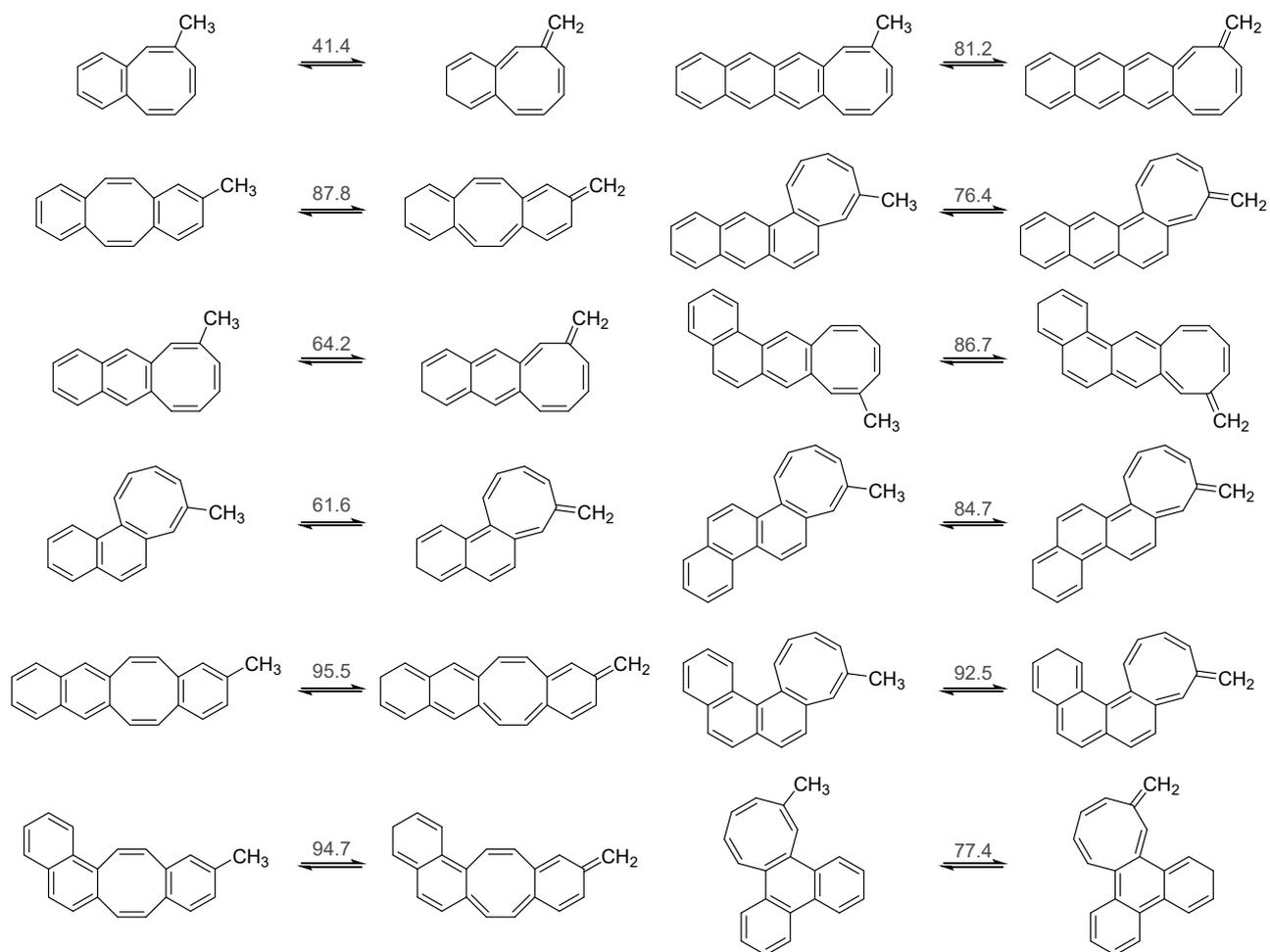


Figure S41. Calculated values of isomerization stabilization energies (kcal/mol) used to study the (anti)aromaticity of molecular perimeter of the given systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Values include ZPE correction and correction for *syn/anti* mismatch.

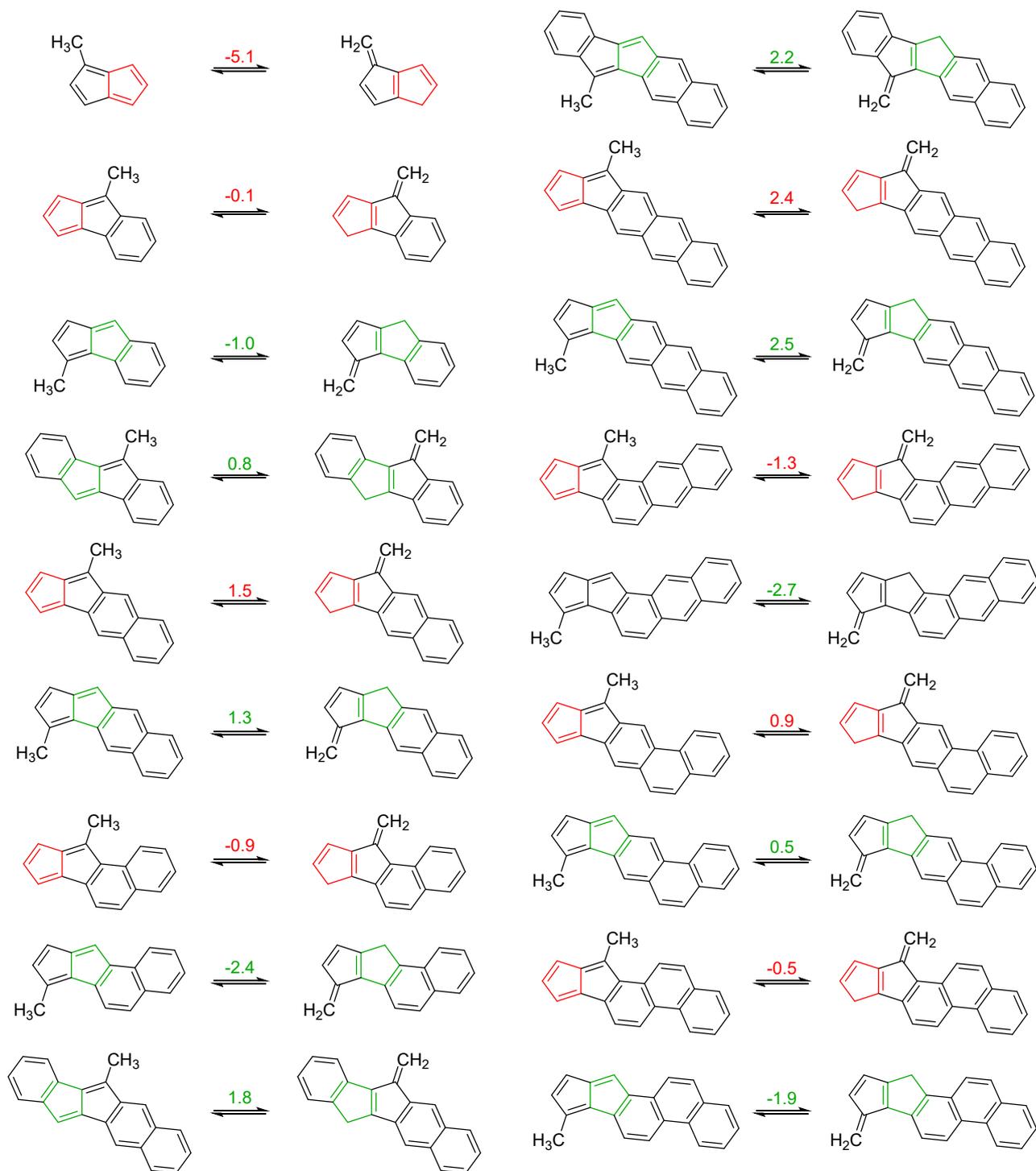


Figure S42. Calculated values of isomerization stabilization energies (kcal/mol) used to study delocalization in five-membered rings of the given systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. The color code corresponds to the graphs in Figure S33. Values include ZPE correction.

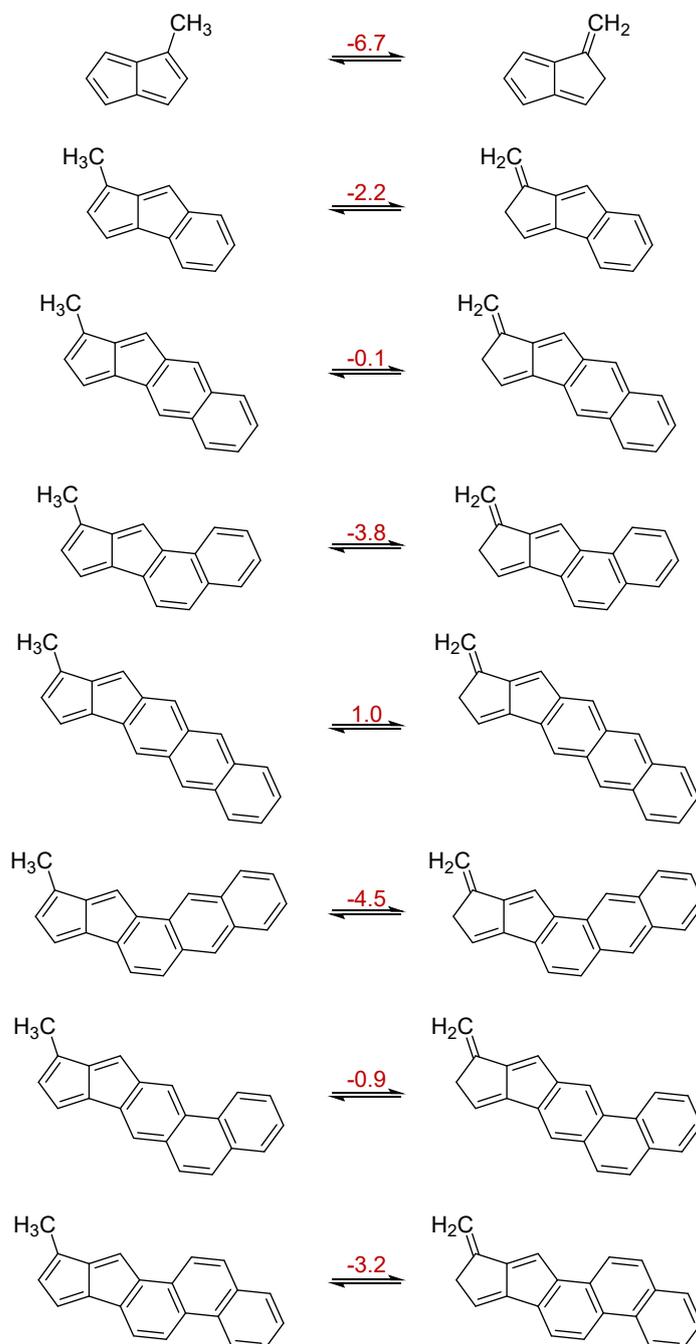


Figure S43. Calculated values of isomerization stabilization energies (kcal/mol) used to study the (anti)aromaticity of the perimeter of pentalene subunits of the given systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Values include ZPE correction.

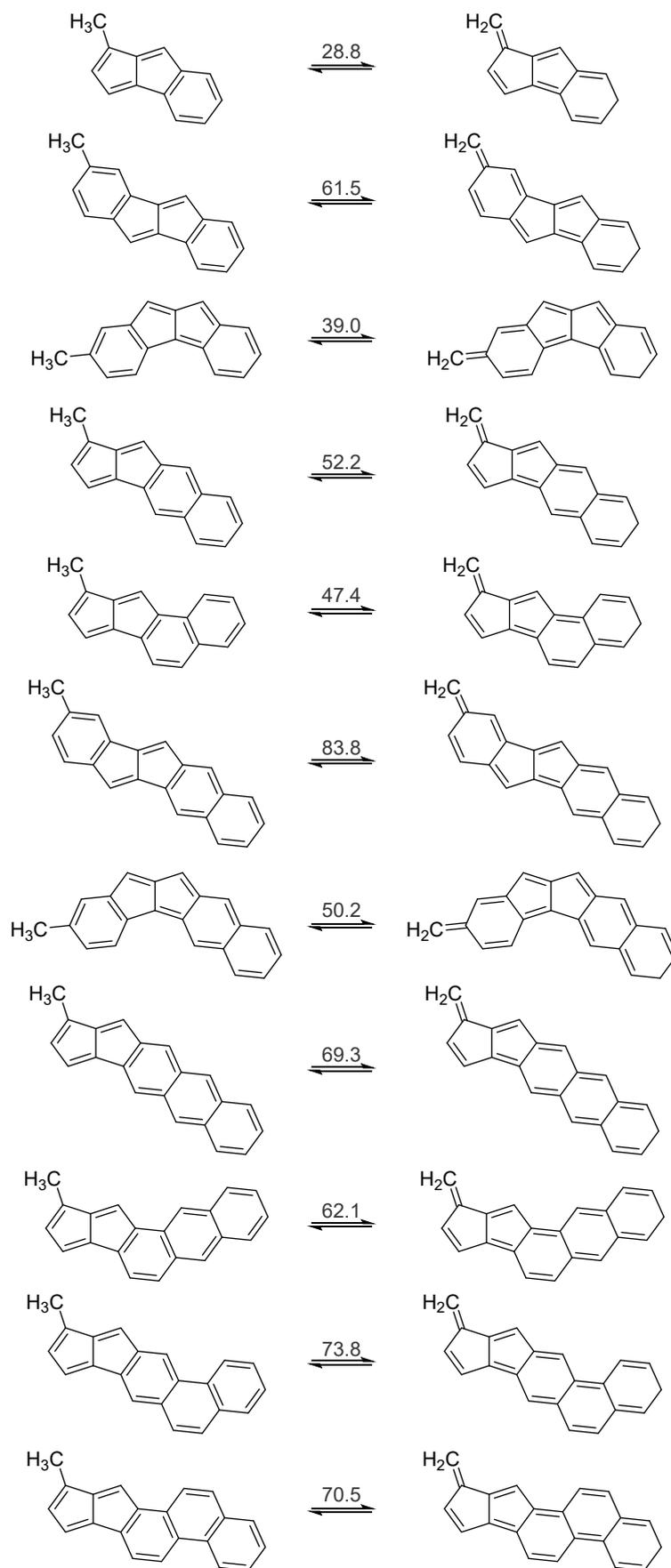
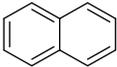
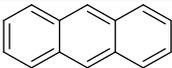
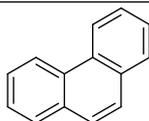


Figure S44. Calculated values of isomerization stabilization energies (kcal/mol) used to study the (anti)aromaticity of molecular perimeter of the given systems in their S_0 state. Calculations were performed at the CAM-B3LYP/6-311+G(d,p) level of theory. Values include ZPE correction and correction for *syn/anti* mismatch.

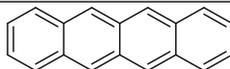
Absolute energies and x, y, z coordinates of optimized structures (CAM-B3LYP)

															
S_0				T_1				S_0				T_1			
E = -385.7563652 a.u.							E = -385.6541843 a.u.								
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)						
			X	Y	Z				X	Y	Z				
1	6	0	0.000000	-2.420483	-0.706171	1	6	0	0.000000	-2.476080	0.675677				
2	6	0	0.000000	-1.240379	-1.394667	2	6	0	0.000000	-1.229032	1.395385				
3	6	0	0.000000	0.000000	-0.709946	3	6	0	0.000000	0.000000	0.724424				
4	6	0	0.000000	0.000000	0.709946	4	6	0	0.000000	0.000000	-0.724424				
5	6	0	0.000000	-1.240379	1.394667	5	6	0	0.000000	-1.229032	-1.395385				
6	6	0	0.000000	-2.420483	0.706171	6	6	0	0.000000	-2.476080	-0.675677				
7	1	0	0.000000	1.237653	-2.479206	7	1	0	0.000000	1.238282	2.478889				
8	1	0	0.000000	-3.362251	-1.242001	8	1	0	0.000000	-3.405841	1.230932				
9	1	0	0.000000	-1.237653	-2.479206	9	1	0	0.000000	-1.238282	2.478889				
10	6	0	0.000000	1.240379	-1.394667	10	6	0	0.000000	1.229032	1.395385				
11	6	0	0.000000	1.240379	1.394667	11	6	0	0.000000	1.229032	-1.395385				
12	1	0	0.000000	-1.237653	2.479206	12	1	0	0.000000	-1.238282	-2.478889				
13	1	0	0.000000	-3.362251	1.242001	13	1	0	0.000000	-3.405841	-1.230932				
14	6	0	0.000000	2.420483	0.706171	14	6	0	0.000000	2.476080	-0.675677				
15	6	0	0.000000	2.420483	-0.706171	15	6	0	0.000000	2.476080	0.675677				
16	1	0	0.000000	1.237653	2.479206	16	1	0	0.000000	1.238282	-2.478889				
17	1	0	0.000000	3.362251	1.242001	17	1	0	0.000000	3.405841	-1.230932				
18	1	0	0.000000	3.362251	-1.242001	18	1	0	0.000000	3.405841	1.230932				

															
S_0				T_1				S_0				T_1			
E = -539.3383147 a.u.							E = -539.2696547 a.u.								
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)						
			X	Y	Z				X	Y	Z				
1	6	0	0.000000	3.640846	-0.711893	1	6	0	0.000000	3.687249	0.686783				
2	6	0	0.000000	2.469850	-1.400059	2	6	0	0.000000	2.467294	1.387698				
3	6	0	0.000000	1.216004	-0.716057	3	6	0	0.000000	1.253682	0.715950				
4	6	0	0.000000	1.216004	0.716057	4	6	0	0.000000	1.253682	-0.715950				
5	6	0	0.000000	2.469850	1.400059	5	6	0	0.000000	2.467294	-1.387698				
6	6	0	0.000000	3.640846	0.711893	6	6	0	0.000000	3.687249	-0.686783				
7	6	0	0.000000	0.000000	-1.394822	7	6	0	0.000000	0.000000	1.404094				
8	6	0	0.000000	0.000000	1.394822	8	6	0	0.000000	0.000000	-1.404094				
9	6	0	0.000000	-1.216004	0.716057	9	6	0	0.000000	-1.253682	-0.715950				
10	6	0	0.000000	-1.216004	-0.716057	10	6	0	0.000000	-1.253682	0.715950				
11	6	0	0.000000	-2.469850	-1.400059	11	6	0	0.000000	-2.467294	1.387698				
12	1	0	0.000000	-2.467890	-2.484390	12	1	0	0.000000	-2.470730	2.472014				
13	6	0	0.000000	-3.640846	-0.711893	13	6	0	0.000000	-3.687249	0.686783				
14	6	0	0.000000	-3.640846	0.711893	14	6	0	0.000000	-3.687249	-0.686783				
15	6	0	0.000000	-2.469850	1.400059	15	6	0	0.000000	-2.467294	-1.387698				
16	1	0	0.000000	0.000000	-2.480048	16	1	0	0.000000	0.000000	2.488199				
17	1	0	0.000000	4.584788	-1.243722	17	1	0	0.000000	4.620960	1.235679				
18	1	0	0.000000	2.467890	-2.484390	18	1	0	0.000000	2.470730	2.472014				
19	1	0	0.000000	2.467890	2.484390	19	1	0	0.000000	2.470730	-2.472014				
20	1	0	0.000000	4.584788	1.243722	20	1	0	0.000000	4.620960	-1.235679				
21	1	0	0.000000	0.000000	2.480048	21	1	0	0.000000	0.000000	-2.488199				
22	1	0	0.000000	-4.584788	-1.243722	22	1	0	0.000000	-4.620960	1.235679				
23	1	0	0.000000	-4.584788	1.243722	23	1	0	0.000000	-4.620960	-1.235679				
24	1	0	0.000000	-2.467890	2.484390	24	1	0	0.000000	-2.470730	-2.472014				

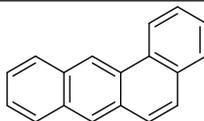


S ₀							T ₁						
E = -539.3483794 a.u.							E = -539.2442546 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	0.000000	-3.542189	-0.295723	1	6	0	0.000000	-3.578614	-0.311782		
2	6	0	0.000000	-2.823420	0.872430	2	6	0	0.000000	-2.871144	0.870534		
3	6	0	0.000000	-1.415167	0.858773	3	6	0	0.000000	-1.444439	0.882778		
4	6	0	0.000000	-0.727515	-0.375118	4	6	0	0.000000	-0.746797	-0.380796		
5	6	0	0.000000	-1.492005	-1.558350	5	6	0	0.000000	-1.489241	-1.536714		
6	6	0	0.000000	-2.865402	-1.522976	6	6	0	0.000000	-2.897030	-1.523425		
7	6	0	0.000000	-0.673941	2.086474	7	6	0	0.000000	-0.739334	2.069287		
8	6	0	0.000000	0.727515	-0.375118	8	6	0	0.000000	0.746797	-0.380796		
9	6	0	0.000000	1.415167	0.858773	9	6	0	0.000000	1.444439	0.882778		
10	6	0	0.000000	0.673941	2.086474	10	6	0	0.000000	0.739334	2.069287		
11	6	0	0.000000	2.823420	0.872430	11	6	0	0.000000	2.871144	0.870534		
12	1	0	0.000000	3.333000	1.829713	12	1	0	0.000000	3.391764	1.821273		
13	6	0	0.000000	3.542189	-0.295723	13	6	0	0.000000	3.578614	-0.311782		
14	6	0	0.000000	2.865402	-1.522976	14	6	0	0.000000	2.897030	-1.523425		
15	6	0	0.000000	1.492005	-1.558350	15	6	0	0.000000	1.489241	-1.536714		
16	1	0	0.000000	-1.225983	3.019702	16	1	0	0.000000	-1.267043	3.014421		
17	1	0	0.000000	-4.625215	-0.272620	17	1	0	0.000000	-4.661927	-0.295803		
18	1	0	0.000000	-3.333000	1.829713	18	1	0	0.000000	-3.391764	1.821273		
19	1	0	0.000000	-0.998312	-2.520558	19	1	0	0.000000	-0.995232	-2.499424		
20	1	0	0.000000	-3.427329	-2.449304	20	1	0	0.000000	-3.440404	-2.459759		
21	1	0	0.000000	1.225983	3.019702	21	1	0	0.000000	1.267043	3.014421		
22	1	0	0.000000	4.625215	-0.272620	22	1	0	0.000000	4.661927	-0.295803		
23	1	0	0.000000	3.427329	-2.449304	23	1	0	0.000000	3.440404	-2.459759		
24	1	0	0.000000	0.998312	-2.520558	24	1	0	0.000000	0.995232	-2.499424		

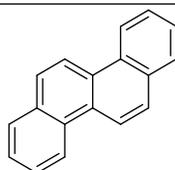


S ₀							T ₁						
E = -692.9173033 a.u.							E = -692.8716412 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	0.000000	4.862380	0.715030	1	6	0	0.000000	-4.900980	0.694563		
2	6	0	0.000000	3.695826	1.403111	2	6	0	0.000000	-3.698034	1.388711		
3	6	0	0.000000	2.435183	0.720163	3	6	0	0.000000	-2.478205	0.710589		
4	6	0	0.000000	2.435183	-0.720163	4	6	0	0.000000	-2.478205	-0.710589		
5	6	0	0.000000	3.695826	-1.403111	5	6	0	0.000000	-3.698034	-1.388711		
6	6	0	0.000000	4.862380	-0.715030	6	6	0	0.000000	-4.900980	-0.694563		
7	6	0	0.000000	1.230529	1.397979	7	6	0	0.000000	-1.222255	1.400567		
8	6	0	0.000000	1.230529	-1.397979	8	6	0	0.000000	-1.222255	-1.400567		
9	6	0	0.000000	0.000000	-0.719095	9	6	0	0.000000	0.000000	-0.730768		
10	6	0	0.000000	0.000000	0.719095	10	6	0	0.000000	0.000000	0.730768		
11	6	0	0.000000	-1.230529	1.397979	11	6	0	0.000000	1.222255	1.400567		
12	1	0	0.000000	-1.230450	2.483004	12	1	0	0.000000	1.229117	2.485253		
13	6	0	0.000000	-2.435183	0.720163	13	6	0	0.000000	2.478205	0.710589		
14	6	0	0.000000	-2.435183	-0.720163	14	6	0	0.000000	2.478205	-0.710589		
15	6	0	0.000000	-1.230529	-1.397979	15	6	0	0.000000	1.222255	-1.400567		
16	1	0	0.000000	1.230450	2.483004	16	1	0	0.000000	-1.229117	2.485253		
17	1	0	0.000000	5.807693	1.244252	17	1	0	0.000000	-5.837729	1.238410		
18	1	0	0.000000	3.693788	2.487375	18	1	0	0.000000	-3.698413	2.473081		
19	1	0	0.000000	3.693788	-2.487375	19	1	0	0.000000	-3.698413	-2.473081		
20	1	0	0.000000	5.807693	-1.244252	20	1	0	0.000000	-5.837729	-1.238410		

21	1	0	0.000000	1.230450	-2.483004	21	1	0	0.000000	-1.229117	-2.485253
22	1	0	0.000000	-1.230450	-2.483004	22	1	0	0.000000	1.229117	-2.485253
23	6	0	0.000000	-3.695826	-1.403111	23	6	0	0.000000	3.698034	-1.388711
24	1	0	0.000000	-3.693788	-2.487375	24	1	0	0.000000	3.698413	-2.473081
25	6	0	0.000000	-3.695826	1.403111	25	6	0	0.000000	3.698034	1.388711
26	1	0	0.000000	-3.693788	2.487375	26	1	0	0.000000	3.698413	2.473081
27	6	0	0.000000	-4.862380	-0.715030	27	6	0	0.000000	4.900980	-0.694563
28	1	0	0.000000	-5.807693	-1.244252	28	1	0	0.000000	5.837729	-1.238410
29	6	0	0.000000	-4.862380	0.715030	29	6	0	0.000000	4.900980	0.694563
30	1	0	0.000000	-5.807693	1.244252	30	1	0	0.000000	5.837729	1.238410

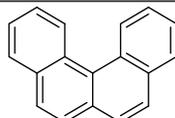


S_0						T_1					
E = -692.933219 a.u.						E = -692.852926 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	-0.825731	-4.660796	0.000000	1	6	0	-0.491012	-4.751652	0.000000
2	6	0	0.306874	-3.905295	0.000000	2	6	0	0.611872	-3.869450	0.000000
3	6	0	0.233658	-2.483831	0.000000	3	6	0	0.429209	-2.491421	0.000000
4	6	0	-1.046114	-1.860137	0.000000	4	6	0	-0.906238	-1.967530	0.000000
5	6	0	-2.208019	-2.682648	0.000000	5	6	0	-1.971555	-2.849878	0.000000
6	6	0	-2.102293	-4.040126	0.000000	6	6	0	-1.764361	-4.251117	0.000000
7	6	0	1.372160	-1.670716	0.000000	7	6	0	1.508322	-1.573295	0.000000
8	6	0	-1.125976	-0.460588	0.000000	8	6	0	-1.091146	-0.548906	0.000000
9	6	0	0.000000	0.343773	0.000000	9	6	0	0.000000	0.377949	0.000000
10	6	0	0.283638	-0.289553	0.000000	10	6	0	1.308981	-0.139744	0.000000
11	6	0	2.473649	0.523000	0.000000	11	6	0	2.407489	0.727735	0.000000
12	1	0	3.434179	0.020301	0.000000	12	1	0	3.406600	0.306612	0.000000
13	6	0	2.402728	1.864574	0.000000	13	6	0	2.238704	2.094908	0.000000
14	6	0	1.133995	2.549110	0.000000	14	6	0	0.951177	2.654369	0.000000
15	6	0	-0.065401	1.806707	0.000000	15	6	0	-0.189952	1.792614	0.000000
16	1	0	2.352500	-2.135910	0.000000	16	1	0	2.524014	-1.951666	0.000000
17	1	0	-0.759344	-5.742145	0.000000	17	1	0	-0.320214	-5.821138	0.000000
18	1	0	1.283790	-4.375773	0.000000	18	1	0	1.619609	-4.269083	0.000000
19	1	0	-3.182305	-2.206613	0.000000	19	1	0	-2.983251	-2.459871	0.000000
20	1	0	-2.993741	-4.655775	0.000000	20	1	0	-2.618206	-4.917259	0.000000
21	1	0	-2.114035	-0.018686	0.000000	21	1	0	-2.109114	-0.186016	0.000000
22	1	0	3.305813	2.464533	0.000000	22	1	0	3.099992	2.752773	0.000000
23	6	0	1.084803	3.952537	0.000000	23	6	0	0.762438	4.062189	0.000000
24	1	0	2.017226	4.506130	0.000000	24	1	0	1.640038	4.699041	0.000000
25	6	0	-1.279181	2.513057	0.000000	25	6	0	-1.475155	2.401376	0.000000
26	1	0	-2.218109	1.976318	0.000000	26	1	0	-2.362767	1.784323	0.000000
27	6	0	-1.308797	3.890094	0.000000	27	6	0	-1.620103	3.758043	0.000000
28	1	0	-2.260946	4.406910	0.000000	28	1	0	-2.612529	4.192633	0.000000
29	6	0	-0.117236	4.620398	0.000000	29	6	0	-0.486509	4.605319	0.000000
30	1	0	-0.141571	5.703352	0.000000	30	1	0	-0.617135	5.680593	0.000000



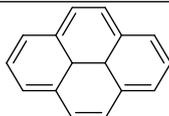
S_0						T_1					
E = -692.9374731 a.u.						E = -692.8399155 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	-0.626039	2.490085	0.000000	1	6	0	-0.643785	2.519514	0.000000

2	6	0	0.607198	1.799107	0.000000	2	6	0	0.611130	1.855545	0.000000
3	6	0	0.607198	0.350190	0.000000	3	6	0	0.643785	0.369836	0.000000
4	6	0	-0.607198	-0.350190	0.000000	4	6	0	-0.643785	-0.369836	0.000000
5	6	0	-1.828883	0.390332	0.000000	5	6	0	-1.806374	0.333896	0.000000
6	6	0	-1.838950	1.743132	0.000000	6	6	0	-1.841387	1.751365	0.000000
7	1	0	2.773093	0.134888	0.000000	7	1	0	2.756130	0.183883	0.000000
8	6	0	1.828883	-0.390332	0.000000	8	6	0	1.806374	-0.333896	0.000000
9	6	0	-0.607198	-1.799107	0.000000	9	6	0	-0.611130	-1.855545	0.000000
10	1	0	-2.773093	-0.134888	0.000000	10	1	0	-2.756130	-0.183883	0.000000
11	1	0	-2.779664	2.282170	0.000000	11	1	0	-2.795153	2.263806	0.000000
12	6	0	0.626039	-2.490085	0.000000	12	6	0	0.643785	-2.519514	0.000000
13	6	0	1.838950	-1.743132	0.000000	13	6	0	1.841387	-1.751365	0.000000
14	1	0	2.779664	-2.282170	0.000000	14	1	0	2.795153	-2.263806	0.000000
15	6	0	-1.791711	-2.570026	0.000000	15	6	0	-1.759893	-2.629904	0.000000
16	1	0	-2.757052	-2.083966	0.000000	16	1	0	-2.734181	-2.159893	0.000000
17	6	0	0.642756	-3.900716	0.000000	17	6	0	0.683521	-3.920614	0.000000
18	1	0	1.601099	-4.408033	0.000000	18	1	0	1.648807	-4.414341	0.000000
19	6	0	-1.752300	-3.941208	0.000000	19	6	0	-1.705788	-4.026028	0.000000
20	1	0	-2.677676	-4.504612	0.000000	20	1	0	-2.626674	-4.596064	0.000000
21	6	0	-0.522948	-4.618953	0.000000	21	6	0	-0.481898	-4.671837	0.000000
22	1	0	-0.500479	-5.701909	0.000000	22	1	0	-0.431598	-5.753888	0.000000
23	6	0	-0.642756	3.900716	0.000000	23	6	0	-0.683521	3.920614	0.000000
24	1	0	-1.601099	4.408033	0.000000	24	1	0	-1.648807	4.414341	0.000000
25	6	0	1.791711	2.570026	0.000000	25	6	0	1.759893	2.629904	0.000000
26	1	0	2.757052	2.083966	0.000000	26	1	0	2.734181	2.159893	0.000000
27	6	0	1.752300	3.941208	0.000000	27	6	0	1.705788	4.026028	0.000000
28	1	0	2.677676	4.504612	0.000000	28	1	0	2.626674	4.596064	0.000000
29	6	0	0.522948	4.618953	0.000000	29	6	0	0.481898	4.671837	0.000000
30	1	0	0.500479	5.701909	0.000000	30	1	0	0.431598	5.753888	0.000000

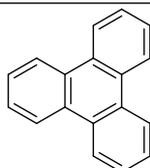


S_0				T_1			
E = -692.9207797 a.u.				E = -692.8182013 a.u.			
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms) X Y Z	Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms) X Y Z
1	6	0	0.000000 3.963457 -1.438050	1	6	0	0.000000 -3.958964 -1.467081
2	6	0	0.000000 3.782990 -0.083933	2	6	0	0.000000 -3.762483 -0.079207
3	6	0	0.000000 2.495256 0.493197	3	6	0	0.000000 -2.501515 0.483555
4	6	0	0.000000 1.318628 -0.314303	4	6	0	0.000000 -1.316341 -0.334691
5	6	0	0.000000 1.566361 -1.711268	5	6	0	0.000000 -1.565569 -1.716464
6	6	0	0.000000 2.827974 -2.253440	6	6	0	0.000000 -2.852125 -2.272790
7	6	0	0.000000 2.408959 1.911966	7	6	0	0.000000 -2.408158 1.927534
8	6	0	0.000000 0.000000 0.339080	8	6	0	0.000000 0.000000 0.307074
9	6	0	0.000000 0.000000 1.749543	9	6	0	0.000000 0.000000 1.830567
10	6	0	0.000000 1.205550 2.510790	10	6	0	0.000000 -1.198448 2.548518
11	6	0	0.000000 -1.205550 2.510790	11	6	0	0.000000 1.198448 2.548518
12	1	0	0.000000 -1.123834 3.591185	12	1	0	0.000000 1.141165 3.631222
13	6	0	0.000000 -2.408959 1.911966	13	6	0	0.000000 2.408158 1.927534
14	6	0	0.000000 -2.495256 0.493197	14	6	0	0.000000 2.501515 0.483555
15	6	0	0.000000 -1.318628 -0.314303	15	6	0	0.000000 1.316341 -0.334691
16	1	0	0.000000 3.325053 2.490913	16	1	0	0.000000 -3.328319 2.498595
17	1	0	0.000000 4.956910 -1.869191	17	1	0	0.000000 -4.959220 -1.881720
18	1	0	0.000000 4.636904 0.584131	18	1	0	0.000000 -4.620555 0.583346
19	1	0	0.000000 0.767605 -2.420900	19	1	0	0.000000 -0.769408 -2.429176
20	1	0	0.000000 2.934427 -3.331759	20	1	0	0.000000 -2.952015 -3.351432
21	1	0	0.000000 1.123834 3.591185	21	1	0	0.000000 -1.141165 3.631222
22	1	0	0.000000 -3.325053 2.490913	22	1	0	0.000000 3.328319 2.498595
23	6	0	0.000000 -1.566361 -1.711268	23	6	0	0.000000 1.565569 -1.716464
24	1	0	0.000000 -0.767605 -2.420900	24	1	0	0.000000 0.769408 -2.429176
25	6	0	0.000000 -2.827974 -2.253440	25	6	0	0.000000 2.852125 -2.272790
26	1	0	0.000000 -2.934427 -3.331759	26	1	0	0.000000 2.952015 -3.351432
27	6	0	0.000000 -3.782990 -0.083933	27	6	0	0.000000 3.762483 -0.079207
28	1	0	0.000000 -4.636904 0.584131	28	1	0	0.000000 4.620555 0.583346

29	6	0	0.000000	-3.963457	-1.438050	29	6	0	0.000000	3.958964	-1.467081
30	1	0	0.000000	-4.956910	-1.869191	30	1	0	0.000000	4.959220	-1.881720

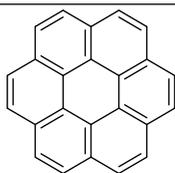


S_0						T_1					
E = -615.5542842 a.u.						E = -615.4745966 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	0.000000	0.000000	-3.505433	1	6	0	0.000000	0.000000	3.542973
2	6	0	0.000000	1.203747	-2.817608	2	6	0	0.000000	1.204123	2.862309
3	6	0	0.000000	1.226887	-1.422460	3	6	0	0.000000	1.235967	1.416880
4	6	0	0.000000	0.000000	-0.712648	4	6	0	0.000000	0.000000	0.705215
5	6	0	0.000000	-1.226887	-1.422460	5	6	0	0.000000	-1.235967	1.416880
6	6	0	0.000000	-1.203747	-2.817608	6	6	0	0.000000	-1.204123	2.862309
7	6	0	0.000000	2.454353	-0.674611	7	6	0	0.000000	2.420300	0.703199
8	6	0	0.000000	0.000000	0.712648	8	6	0	0.000000	0.000000	-0.705215
9	6	0	0.000000	1.226887	1.422460	9	6	0	0.000000	1.235967	-1.416880
10	6	0	0.000000	2.454353	0.674611	10	6	0	0.000000	2.420300	-0.703199
11	6	0	0.000000	1.203747	2.817608	11	6	0	0.000000	1.204123	-2.862309
12	1	0	0.000000	2.141396	3.362137	12	1	0	0.000000	2.143502	-3.401608
13	6	0	0.000000	0.000000	3.505433	13	6	0	0.000000	0.000000	-3.542973
14	6	0	0.000000	-1.203747	2.817608	14	6	0	0.000000	-1.204123	-2.862309
15	6	0	0.000000	-1.226887	1.422460	15	6	0	0.000000	-1.235967	-1.416880
16	6	0	0.000000	-2.454353	0.674611	16	6	0	0.000000	-2.420300	-0.703199
17	6	0	0.000000	-2.454353	-0.674611	17	6	0	0.000000	-2.420300	0.703199
18	1	0	0.000000	-3.389849	-1.222960	18	1	0	0.000000	-3.363516	1.237467
19	1	0	0.000000	-3.389849	1.222960	19	1	0	0.000000	-3.363516	-1.237467
20	1	0	0.000000	3.389849	-1.222960	20	1	0	0.000000	3.363516	1.237467
21	1	0	0.000000	0.000000	-4.588982	21	1	0	0.000000	0.000000	4.626770
22	1	0	0.000000	2.141396	-3.362137	22	1	0	0.000000	2.143502	3.401608
23	1	0	0.000000	-2.141396	-3.362137	23	1	0	0.000000	-2.143502	3.401608
24	1	0	0.000000	3.389849	1.222960	24	1	0	0.000000	3.363516	-1.237467
25	1	0	0.000000	0.000000	4.588982	25	1	0	0.000000	0.000000	-4.626770
26	1	0	0.000000	-2.141396	3.362137	26	1	0	0.000000	-2.143502	-3.401608

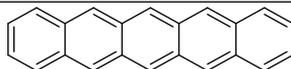


S_0						T_1					
E = -692.9379702 a.u.						E = -692.8085795 a.u.					
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			X	Y	Z				X	Y	Z
1	6	0	1.376049	2.487542	0.000000	1	6	0	0.000000	1.390344	2.482491
2	6	0	0.703833	1.252867	0.000000	2	6	0	0.000000	0.701552	1.253129
3	6	0	1.436931	-0.016896	0.000000	3	6	0	0.000000	1.432248	0.003910
4	6	0	2.842299	-0.052078	0.000000	4	6	0	0.000000	2.833379	-0.034198
5	6	0	-0.703833	1.252867	0.000000	5	6	0	0.000000	-0.701552	1.253129
6	6	0	0.733098	-1.235971	0.000000	6	6	0	0.000000	0.709057	-1.235126
7	6	0	-0.733098	-1.235971	0.000000	7	6	0	0.000000	-0.709057	-1.235126
8	6	0	-1.436931	-0.016896	0.000000	8	6	0	0.000000	-1.432248	0.003910
9	6	0	-1.466250	-2.435464	0.000000	9	6	0	0.000000	-1.444726	-2.463315
10	6	0	1.466250	-2.435464	0.000000	10	6	0	0.000000	1.444726	-2.463315
11	6	0	2.841320	-2.445351	0.000000	11	6	0	0.000000	2.821089	-2.460448
12	6	0	3.538396	-1.237980	0.000000	12	6	0	0.000000	3.514004	-1.250006
13	1	0	4.621578	-1.229836	0.000000	13	1	0	0.000000	4.597621	-1.251980
14	1	0	3.375858	-3.387486	0.000000	14	1	0	0.000000	3.365212	-3.396635

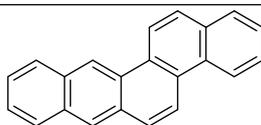
15	6	0	0.697076	3.683331	0.000000	15	6	0	0.000000	0.682466	3.707773
16	6	0	-0.697076	3.683331	0.000000	16	6	0	0.000000	-0.682466	3.707773
17	6	0	-1.376049	2.487542	0.000000	17	6	0	0.000000	-1.390344	2.482491
18	1	0	1.245720	4.617322	0.000000	18	1	0	0.000000	1.233538	4.640248
19	1	0	-1.245720	4.617322	0.000000	19	1	0	0.000000	-1.233538	4.640248
20	6	0	-2.842299	-0.052078	0.000000	20	6	0	0.000000	-2.833379	-0.034198
21	6	0	-2.841320	-2.445351	0.000000	21	6	0	0.000000	-2.821089	-2.460448
22	1	0	-3.375858	-3.387486	0.000000	22	1	0	0.000000	-3.365212	-3.396635
23	6	0	-3.538396	-1.237980	0.000000	23	6	0	0.000000	-3.514004	-1.250006
24	1	0	-4.621578	-1.229836	0.000000	24	1	0	0.000000	-4.597621	-1.251980
25	1	0	-0.950150	-3.384392	0.000000	25	1	0	0.000000	-0.924705	-3.406464
26	1	0	-3.406044	0.869342	0.000000	26	1	0	0.000000	-3.406793	0.878237
27	1	0	-2.455894	2.515050	0.000000	27	1	0	0.000000	-2.467880	2.511332
28	1	0	2.455894	2.515050	0.000000	28	1	0	0.000000	2.467880	2.511332
29	1	0	0.950150	-3.384392	0.000000	29	1	0	0.000000	0.924705	-3.406464
30	1	0	3.406044	0.869342	0.000000	30	1	0	0.000000	3.406793	0.878237



S ₀						T ₁					
E = -921.5707324 a.u.						E = -921.4689215 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	-1.244095	-3.516569	0.000000	1	6	0	0.000000	3.510355	1.236157
2	6	0	0.000000	-2.831001	0.000000	2	6	0	0.000000	2.833808	0.000000
3	6	0	0.000000	-1.423340	0.000000	3	6	0	0.000000	1.408015	0.000000
4	6	0	-1.232606	-0.711664	0.000000	4	6	0	0.000000	0.700390	1.225819
5	6	0	-2.451643	-1.415521	0.000000	5	6	0	0.000000	1.429857	2.473541
6	6	0	-2.423293	-2.835727	0.000000	6	6	0	0.000000	2.805966	2.446480
7	6	0	1.232606	-0.711664	0.000000	7	6	0	0.000000	0.700390	-1.225819
8	6	0	-1.232606	0.711664	0.000000	8	6	0	0.000000	-0.700390	1.225819
9	6	0	0.000000	1.423340	0.000000	9	6	0	0.000000	-1.408015	0.000000
10	6	0	1.232606	0.711664	0.000000	10	6	0	0.000000	-0.700390	-1.225819
11	6	0	0.000000	2.831001	0.000000	11	6	0	0.000000	-2.833808	0.000000
12	6	0	-1.244095	3.516569	0.000000	12	6	0	0.000000	-3.510355	1.236157
13	6	0	-2.423293	2.835727	0.000000	13	6	0	0.000000	-2.805966	2.446480
14	6	0	-2.451643	1.415521	0.000000	14	6	0	0.000000	-1.429857	2.473541
15	6	0	-3.667386	0.680816	0.000000	15	6	0	0.000000	-0.670531	3.711584
16	6	0	-3.667386	-0.680816	0.000000	16	6	0	0.000000	0.670531	3.711584
17	1	0	-4.604421	-1.226371	0.000000	17	1	0	0.000000	1.222107	4.645022
18	1	0	-4.604421	1.226371	0.000000	18	1	0	0.000000	-1.222107	4.645022
19	1	0	-1.240058	-4.600833	0.000000	19	1	0	0.000000	4.593845	1.242048
20	1	0	-3.364265	-3.374464	0.000000	20	1	0	0.000000	3.354642	3.381821
21	1	0	-1.240058	4.600833	0.000000	21	1	0	0.000000	-4.593845	1.242048
22	1	0	-3.364265	3.374464	0.000000	22	1	0	0.000000	-3.354642	3.381821
23	6	0	1.244095	-3.516569	0.000000	23	6	0	0.000000	3.510355	-1.236157
24	6	0	2.423293	-2.835727	0.000000	24	6	0	0.000000	2.805966	-2.446480
25	6	0	2.451643	-1.415521	0.000000	25	6	0	0.000000	1.429857	-2.473541
26	1	0	1.240058	-4.600833	0.000000	26	1	0	0.000000	4.593845	-1.242048
27	1	0	3.364265	-3.374464	0.000000	27	1	0	0.000000	3.354642	-3.381821
28	6	0	3.667386	-0.680816	0.000000	28	6	0	0.000000	0.670531	-3.711584
29	6	0	3.667386	0.680816	0.000000	29	6	0	0.000000	-0.670531	-3.711584
30	6	0	2.451643	1.415521	0.000000	30	6	0	0.000000	-1.429857	-2.473541
31	1	0	4.604421	-1.226371	0.000000	31	1	0	0.000000	1.222107	-4.645022
32	1	0	4.604421	1.226371	0.000000	32	1	0	0.000000	-1.222107	-4.645022
33	6	0	1.244095	3.516569	0.000000	33	6	0	0.000000	-3.510355	-1.236157
34	1	0	1.240058	4.600833	0.000000	34	1	0	0.000000	-4.593845	-1.242048
35	6	0	2.423293	2.835727	0.000000	35	6	0	0.000000	-2.805966	-2.446480
36	1	0	3.364265	3.374464	0.000000	36	1	0	0.000000	-3.354642	-3.381821

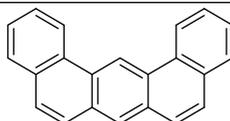


S_0							T_1					
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			X	Y	Z				X	Y	Z	
1	6	0	0.000000	3.656098	0.722793	1	6	0	0.000000	3.697236	-0.709633	
2	6	0	0.000000	2.457570	1.400029	2	6	0	0.000000	2.448804	-1.396418	
3	6	0	0.000000	1.218634	0.721788	3	6	0	0.000000	1.242468	-0.727628	
4	6	0	0.000000	1.218634	-0.721788	4	6	0	0.000000	1.242468	0.727628	
5	6	0	0.000000	2.457570	-1.400029	5	6	0	0.000000	2.448804	1.396418	
6	6	0	0.000000	3.656098	-0.722793	6	6	0	0.000000	3.697236	0.709633	
7	6	0	0.000000	0.000000	1.399804	7	6	0	0.000000	0.000000	-1.405894	
8	6	0	0.000000	0.000000	-1.399804	8	6	0	0.000000	0.000000	1.405894	
9	6	0	0.000000	-1.218634	-0.721788	9	6	0	0.000000	-1.242468	0.727628	
10	6	0	0.000000	-1.218634	0.721788	10	6	0	0.000000	-1.242468	-0.727628	
11	6	0	0.000000	-2.457570	1.400029	11	6	0	0.000000	-2.448804	-1.396418	
12	1	0	0.000000	-2.457932	2.485080	12	1	0	0.000000	-2.454245	-2.481395	
13	6	0	0.000000	-3.656098	0.722793	13	6	0	0.000000	-3.697236	-0.709633	
14	6	0	0.000000	-3.656098	-0.722793	14	6	0	0.000000	-3.697236	0.709633	
15	6	0	0.000000	-2.457570	-1.400029	15	6	0	0.000000	-2.448804	1.396418	
16	1	0	0.000000	0.000000	2.484768	16	1	0	0.000000	0.000000	-2.490424	
17	1	0	0.000000	2.457932	2.485080	17	1	0	0.000000	2.454245	-2.481395	
18	1	0	0.000000	2.457932	-2.485080	18	1	0	0.000000	2.454245	2.481395	
19	1	0	0.000000	0.000000	-2.484768	19	1	0	0.000000	0.000000	2.490424	
20	1	0	0.000000	-2.457932	-2.485080	20	1	0	0.000000	-2.454245	2.481395	
21	6	0	0.000000	-4.920731	-1.404935	21	6	0	0.000000	-4.926735	1.391586	
22	1	0	0.000000	-4.919032	-2.489215	22	1	0	0.000000	-4.925091	2.475969	
23	6	0	0.000000	-4.920731	1.404935	23	6	0	0.000000	-4.926735	-1.391586	
24	1	0	0.000000	-4.919032	2.489215	24	1	0	0.000000	-4.925091	-2.475969	
25	6	0	0.000000	-6.084919	-0.716811	25	6	0	0.000000	-6.117598	0.700486	
26	1	0	0.000000	-7.030936	-1.244822	26	1	0	0.000000	-7.057239	1.239478	
27	6	0	0.000000	-6.084919	0.716811	27	6	0	0.000000	-6.117598	-0.700486	
28	1	0	0.000000	-7.030936	1.244822	28	1	0	0.000000	-7.057239	-1.239478	
29	6	0	0.000000	4.920731	-1.404935	29	6	0	0.000000	4.926735	1.391586	
30	1	0	0.000000	4.919032	-2.489215	30	1	0	0.000000	4.925091	2.475969	
31	6	0	0.000000	6.084919	-0.716811	31	6	0	0.000000	6.117598	0.700486	
32	1	0	0.000000	7.030936	-1.244822	32	1	0	0.000000	7.057239	1.239478	
33	6	0	0.000000	4.920731	1.404935	33	6	0	0.000000	4.926735	-1.391586	
34	1	0	0.000000	4.919032	2.489215	34	1	0	0.000000	4.925091	-2.475969	
35	6	0	0.000000	6.084919	0.716811	35	6	0	0.000000	6.117598	-0.700486	
36	1	0	0.000000	7.030936	1.244822	36	1	0	0.000000	7.057239	-1.239478	



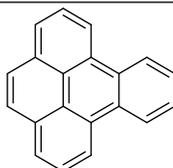
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			X	Y	Z				X	Y	Z	
1	6	0	0.464430	-1.662725	0.000000	1	6	0	0.534897	-1.677886	0.000000	
2	6	0	-0.461898	-0.615910	0.000000	2	6	0	-0.427946	-0.615799	0.000000	
3	6	0	0.000000	0.768414	0.000000	3	6	0	0.000000	0.736818	0.000000	
4	6	0	1.406015	1.029702	0.000000	4	6	0	1.390220	1.026087	0.000000	
5	6	0	2.313688	-0.078714	0.000000	5	6	0	2.302291	-0.021164	0.000000	
6	6	0	1.868115	-1.349983	0.000000	6	6	0	1.884787	-1.346708	0.000000	
7	6	0	-0.862545	1.855837	0.000000	7	6	0	-0.905378	1.841143	0.000000	
8	6	0	1.872954	2.335282	0.000000	8	6	0	1.834931	2.393299	0.000000	
9	6	0	1.002858	3.426843	0.000000	9	6	0	0.930699	3.489846	0.000000	
10	6	0	-0.400343	3.176373	0.000000	10	6	0	-0.471979	3.206840	0.000000	
11	6	0	-1.292749	4.287642	0.000000	11	6	0	-1.368673	4.262142	0.000000	
12	1	0	-2.360184	4.096758	0.000000	12	1	0	-2.432727	4.053480	0.000000	

13	6	0	-0.819251	5.562990	0.000000	13	6	0	-0.921683	5.600321	0.000000
14	6	0	0.580039	5.811034	0.000000	14	6	0	0.423066	5.871730	0.000000
15	6	0	1.462248	4.775630	0.000000	15	6	0	1.352233	4.813765	0.000000
16	1	0	-1.934043	1.708077	0.000000	16	1	0	-1.972153	1.670627	0.000000
17	1	0	3.377906	0.128123	0.000000	17	1	0	3.362874	0.203729	0.000000
18	1	0	2.591650	-2.152162	0.000000	18	1	0	2.638760	-2.120766	0.000000
19	1	0	2.943711	2.511219	0.000000	19	1	0	2.901110	2.588681	0.000000
20	1	0	-1.507724	6.399460	0.000000	20	1	0	-1.645041	6.406314	0.000000
21	1	0	0.939225	6.833135	0.000000	21	1	0	0.776745	6.895427	0.000000
22	1	0	2.530670	4.960418	0.000000	22	1	0	2.414571	5.030366	0.000000
23	6	0	-1.852747	-0.927134	0.000000	23	6	0	-1.821472	-0.963578	0.000000
24	1	0	-2.580830	-0.128716	0.000000	24	1	0	-2.565169	-0.180058	0.000000
25	6	0	0.006302	-3.033476	0.000000	25	6	0	0.078773	-3.065563	0.000000
26	6	0	-1.383691	-3.298859	0.000000	26	6	0	-1.304725	-3.338461	0.000000
27	6	0	-2.294749	-2.207836	0.000000	27	6	0	-2.235769	-2.245826	0.000000
28	1	0	-3.358251	-2.418475	0.000000	28	1	0	-3.295374	-2.475585	0.000000
29	6	0	0.885355	-4.141999	0.000000	29	6	0	0.963051	-4.159621	0.000000
30	1	0	1.954843	-3.987636	0.000000	30	1	0	2.031526	-3.994753	0.000000
31	6	0	-1.846986	-4.632566	0.000000	31	6	0	-1.759155	-4.667843	0.000000
32	1	0	-2.916789	-4.809518	0.000000	32	1	0	-2.827673	-4.852610	0.000000
33	6	0	-0.969508	-5.682218	0.000000	33	6	0	-0.872854	-5.718048	0.000000
34	1	0	-1.333786	-6.702362	0.000000	34	1	0	-1.233204	-6.739523	0.000000
35	6	0	0.412812	-5.428606	0.000000	35	6	0	0.500985	-5.456194	0.000000
36	1	0	1.111502	-6.256647	0.000000	36	1	0	1.207954	-6.277130	0.000000



S_0							T_1					
E = -846.526744 a.u.							E = -846.4343809 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			
			X	Y	Z				X	Y	Z	
1	6	0	0.000000	3.699295	0.284078	1	6	0	0.000000	3.731278	0.300998	
2	6	0	0.000000	2.506054	-0.470565	2	6	0	0.000000	2.507433	-0.447963	
3	6	0	0.000000	1.223446	0.229196	3	6	0	0.000000	1.265258	0.242800	
4	6	0	0.000000	1.216288	1.650388	4	6	0	0.000000	1.261402	1.650646	
5	6	0	0.000000	2.460494	2.370740	5	6	0	0.000000	2.468246	2.357445	
6	6	0	0.000000	3.638705	1.721551	6	6	0	0.000000	3.682518	1.698914	
7	6	0	0.000000	0.000000	-0.436512	7	6	0	0.000000	0.000000	-0.439722	
8	6	0	0.000000	0.000000	2.323492	8	6	0	0.000000	0.000000	2.344142	
9	6	0	0.000000	-1.216288	1.650388	9	6	0	0.000000	-1.261402	1.650646	
10	6	0	0.000000	-1.223446	0.229196	10	6	0	0.000000	-1.265258	0.242800	
11	6	0	0.000000	-2.506054	-0.470565	11	6	0	0.000000	-2.507433	-0.447963	
12	6	0	0.000000	-3.699295	0.284078	12	6	0	0.000000	-3.731278	0.300998	
13	6	0	0.000000	-3.638705	1.721551	13	6	0	0.000000	-3.682518	1.698914	
14	6	0	0.000000	-2.460494	2.370740	14	6	0	0.000000	-2.468246	2.357445	
15	1	0	0.000000	0.000000	-1.515419	15	1	0	0.000000	0.000000	-1.516307	
16	1	0	0.000000	2.425465	3.454301	16	1	0	0.000000	2.440809	3.441305	
17	1	0	0.000000	4.572452	2.272519	17	1	0	0.000000	4.609184	2.260904	
18	1	0	0.000000	0.000000	3.408608	18	1	0	0.000000	0.000000	3.427604	
19	1	0	0.000000	-4.572452	2.272519	19	1	0	0.000000	-4.609184	2.260904	
20	1	0	0.000000	-2.425465	3.454301	20	1	0	0.000000	-2.440809	3.441305	
21	6	0	0.000000	2.612455	-1.872647	21	6	0	0.000000	2.608087	-1.870133	
22	1	0	0.000000	1.720480	-2.484188	22	1	0	0.000000	1.711006	-2.473055	
23	6	0	0.000000	4.941174	-0.374703	23	6	0	0.000000	4.973844	-0.391644	
24	6	0	0.000000	5.016122	-1.746395	24	6	0	0.000000	5.022269	-1.750654	
25	6	0	0.000000	3.837313	-2.499696	25	6	0	0.000000	3.816802	-2.497749	
26	1	0	0.000000	3.886850	-3.581951	26	1	0	0.000000	3.860903	-3.580295	
27	1	0	0.000000	5.979214	-2.242207	27	1	0	0.000000	5.974463	-2.266868	
28	1	0	0.000000	5.846424	0.222313	28	1	0	0.000000	5.886950	0.193141	
29	6	0	0.000000	-2.612455	-1.872647	29	6	0	0.000000	-2.608087	-1.870133	
30	1	0	0.000000	-1.720480	-2.484188	30	1	0	0.000000	-1.711006	-2.473055	
31	6	0	0.000000	-4.941174	-0.374703	31	6	0	0.000000	-4.973844	-0.391644	
32	1	0	0.000000	-5.846424	0.222313	32	1	0	0.000000	-5.886950	0.193141	
33	6	0	0.000000	-5.016122	-1.746395	33	6	0	0.000000	-5.022269	-1.750654	

34	1	0	0.000000	-5.979214	-2.242207	34	1	0	0.000000	-5.974463	-2.266868
35	6	0	0.000000	-3.837313	-2.499696	35	6	0	0.000000	-3.816802	-2.497749
36	1	0	0.000000	-3.886850	-3.581951	36	1	0	0.000000	-3.860903	-3.580295

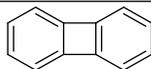


S_0							T_1						
E = -769.1454581 a.u.							E = -769.0546043 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	0.000000	3.510567	-0.915357	1	6	0	0.000000	-3.547116	-0.902042		
2	6	0	0.000000	2.812117	-2.104462	2	6	0	0.000000	-2.858615	-2.098874		
3	6	0	0.000000	1.415313	-2.099445	3	6	0	0.000000	-1.421751	-2.112509		
4	6	0	0.000000	0.717555	-0.865486	4	6	0	0.000000	-0.715314	-0.852846		
5	6	0	0.000000	1.440188	0.351660	5	6	0	0.000000	-1.427731	0.352069		
6	6	0	0.000000	2.831619	0.296451	6	6	0	0.000000	-2.871706	0.302735		
7	6	0	0.000000	0.673262	-3.327931	7	6	0	0.000000	-0.715679	-3.289700		
8	6	0	0.000000	-0.717555	-0.865486	8	6	0	0.000000	0.715314	-0.852846		
9	6	0	0.000000	-1.415313	-2.099445	9	6	0	0.000000	1.421751	-2.112509		
10	6	0	0.000000	-0.673262	-3.327931	10	6	0	0.000000	0.715679	-3.289700		
11	6	0	0.000000	-2.812117	-2.104462	11	6	0	0.000000	2.858615	-2.098874		
12	1	0	0.000000	-3.338028	-3.052265	12	1	0	0.000000	3.386748	-3.044604		
13	6	0	0.000000	-3.510567	-0.915357	13	6	0	0.000000	3.547116	-0.902042		
14	6	0	0.000000	-2.831619	0.296451	14	6	0	0.000000	2.871706	0.302735		
15	6	0	0.000000	-1.440188	0.351660	15	6	0	0.000000	1.427731	0.352069		
16	6	0	0.000000	-0.703878	1.620501	16	6	0	0.000000	0.713339	1.590672		
17	6	0	0.000000	0.703878	1.620501	17	6	0	0.000000	-0.713339	1.590672		
18	1	0	0.000000	1.226340	-4.260307	18	1	0	0.000000	-1.248248	-4.233248		
19	1	0	0.000000	4.593834	-0.920726	19	1	0	0.000000	-4.630783	-0.904338		
20	1	0	0.000000	3.338028	-3.052265	20	1	0	0.000000	-3.386748	-3.044604		
21	1	0	0.000000	3.414418	1.206152	21	1	0	0.000000	-3.443806	1.217547		
22	1	0	0.000000	-1.226340	-4.260307	22	1	0	0.000000	1.248248	-4.233248		
23	1	0	0.000000	-4.593834	-0.920726	23	1	0	0.000000	4.630783	-0.904338		
24	1	0	0.000000	-3.414418	1.206152	24	1	0	0.000000	3.443806	1.217547		
25	6	0	0.000000	-1.376951	2.854777	25	6	0	0.000000	1.385203	2.841878		
26	1	0	0.000000	-2.457071	2.878647	26	1	0	0.000000	2.464847	2.869575		
27	6	0	0.000000	1.376951	2.854777	27	6	0	0.000000	-1.385203	2.841878		
28	1	0	0.000000	2.457071	2.878647	28	1	0	0.000000	-2.464847	2.869575		
29	6	0	0.000000	0.697504	4.049935	29	6	0	0.000000	-0.704380	4.024113		
30	1	0	0.000000	1.244801	4.984650	30	1	0	0.000000	-1.246333	4.962088		
31	6	0	0.000000	-0.697504	4.049935	31	6	0	0.000000	0.704380	4.024113		
32	1	0	0.000000	-1.244801	4.984650	32	1	0	0.000000	1.246333	4.962088		

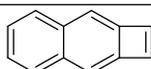


S_0							T_1						
E = -308.252107 a.u.							E = -308.206372 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	0.000000	1.437733	-0.620635	1	6	0	0.000000	1.456203	-0.630279		
2	6	0	0.000000	0.709259	0.518543	2	6	0	0.000000	0.726552	0.557170		
3	6	0	0.000000	-0.709259	0.518543	3	6	0	0.000000	-0.726552	0.557170		
4	6	0	0.000000	-1.437733	-0.620635	4	6	0	0.000000	-1.456203	-0.630279		
5	6	0	0.000000	-0.684667	-1.836916	5	6	0	0.000000	-0.710968	-1.796279		
6	6	0	0.000000	0.684667	-1.836916	6	6	0	0.000000	0.710968	-1.796279		
7	1	0	0.000000	2.520745	-0.640971	7	1	0	0.000000	2.538900	-0.655968		
8	1	0	0.000000	-2.520745	-0.640971	8	1	0	0.000000	-2.538900	-0.655968		
9	1	0	0.000000	-1.215322	-2.781576	9	1	0	0.000000	-1.220749	-2.752418		

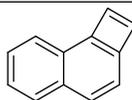
10	1	0	0.000000	1.215322	-2.781576	10	1	0	0.000000	1.220749	-2.752418
11	6	0	0.000000	-0.670951	2.039732	11	6	0	0.000000	-0.739453	1.980111
12	1	0	0.000000	-1.420166	2.818205	12	1	0	0.000000	-1.501377	2.744043
13	6	0	0.000000	0.670951	2.039732	13	6	0	0.000000	0.739453	1.980111
14	1	0	0.000000	1.420166	2.818205	14	1	0	0.000000	1.501377	2.744043



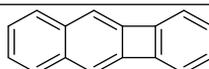
S_0							T_1					
E = -461.8676973 a.u.							E = -461.7897602 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			
			X	Y	Z				X	Y	Z	
1	6	0	0.000000	1.437048	1.906717	1	6	0	0.000000	1.464778	1.908593	
2	6	0	0.000000	0.707598	0.754054	2	6	0	0.000000	0.736927	0.711990	
3	6	0	0.000000	-0.707598	0.754054	3	6	0	0.000000	-0.736927	0.711990	
4	6	0	0.000000	-1.437048	1.906717	4	6	0	0.000000	-1.464778	1.908593	
5	6	0	0.000000	-0.690447	3.107692	5	6	0	0.000000	-0.722209	3.064171	
6	6	0	0.000000	0.690447	3.107692	6	6	0	0.000000	0.722209	3.064171	
7	1	0	0.000000	2.519787	1.926560	7	1	0	0.000000	2.547533	1.938710	
8	1	0	0.000000	-2.519787	1.926560	8	1	0	0.000000	-2.547533	1.938710	
9	1	0	0.000000	-1.216860	4.054740	9	1	0	0.000000	-1.226618	4.022934	
10	1	0	0.000000	1.216860	4.054740	10	1	0	0.000000	1.226618	4.022934	
11	6	0	0.000000	-0.707598	-0.754054	11	6	0	0.000000	-0.736927	-0.711990	
12	6	0	0.000000	0.707598	-0.754054	12	6	0	0.000000	0.736927	-0.711990	
13	6	0	0.000000	-1.437048	-1.906717	13	6	0	0.000000	-1.464778	-1.908593	
14	1	0	0.000000	-2.519787	-1.926560	14	1	0	0.000000	-2.547533	-1.938710	
15	6	0	0.000000	1.437048	-1.906717	15	6	0	0.000000	1.464778	-1.908593	
16	1	0	0.000000	2.519787	-1.926560	16	1	0	0.000000	2.547533	-1.938710	
17	6	0	0.000000	0.690447	-3.107692	17	6	0	0.000000	0.722209	-3.064171	
18	1	0	0.000000	1.216860	-4.054740	18	1	0	0.000000	1.226618	-4.022934	
19	6	0	0.000000	-0.690447	-3.107692	19	6	0	0.000000	-0.722209	-3.064171	
20	1	0	0.000000	-1.216860	-4.054740	20	1	0	0.000000	-1.226618	-4.022934	



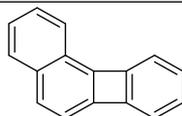
S_0							T_1					
E = -461.8676973 a.u.							E = -461.792369 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			
			X	Y	Z				X	Y	Z	
1	6	0	0.000000	0.697400	-3.035625	1	6	0	0.000000	0.708866	-3.013002	
2	6	0	0.000000	1.384700	-1.838472	2	6	0	0.000000	1.394166	-1.835270	
3	6	0	0.000000	0.710721	-0.611224	3	6	0	0.000000	0.722953	-0.581363	
4	6	0	0.000000	-0.710721	-0.611224	4	6	0	0.000000	-0.722953	-0.581363	
5	6	0	0.000000	-1.384700	-1.838472	5	6	0	0.000000	-1.394166	-1.835270	
6	6	0	0.000000	-0.697400	-3.035625	6	6	0	0.000000	-0.708866	-3.013002	
7	1	0	0.000000	2.533670	0.621509	7	1	0	0.000000	2.540480	0.599340	
8	1	0	0.000000	1.240631	-3.972920	8	1	0	0.000000	1.244268	-3.954652	
9	1	0	0.000000	2.469387	-1.836917	9	1	0	0.000000	2.478408	-1.834252	
10	6	0	0.000000	1.450020	0.643772	10	6	0	0.000000	1.457158	0.625662	
11	6	0	0.000000	-1.450020	0.643772	11	6	0	0.000000	-1.457158	0.625662	
12	1	0	0.000000	-2.469387	-1.836917	12	1	0	0.000000	-2.478408	-1.834252	
13	1	0	0.000000	-1.240631	-3.972920	13	1	0	0.000000	-1.244268	-3.954652	
14	6	0	0.000000	-0.723167	1.765053	14	6	0	0.000000	-0.733450	1.795220	
15	6	0	0.000000	0.723167	1.765053	15	6	0	0.000000	0.733450	1.795220	
16	1	0	0.000000	-2.533670	0.621509	16	1	0	0.000000	-2.540480	0.599340	
17	6	0	0.000000	-0.674150	3.266606	17	6	0	0.000000	-0.752130	3.211422	
18	1	0	0.000000	-1.420820	4.047673	18	1	0	0.000000	-1.515614	3.973541	
19	6	0	0.000000	0.674150	3.266606	19	6	0	0.000000	0.752130	3.211422	
20	1	0	0.000000	1.420820	4.047673	20	1	0	0.000000	1.515614	3.973541	



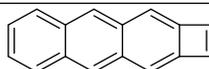
S ₀							T ₁					
E = -461.83291 a.u.							E = -461.8039873 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			
			X	Y	Z				X	Y	Z	
1	6	0	-2.685173	1.383964	0.000000	1	6	0	-2.667986	1.417781	0.000000	
2	6	0	-2.406203	0.054399	0.000000	2	6	0	-2.368986	0.069768	0.000000	
3	6	0	-1.059594	-0.421214	0.000000	3	6	0	-1.041830	-0.378993	0.000000	
4	6	0	0.000000	0.562701	0.000000	4	6	0	0.000000	0.595704	0.000000	
5	6	0	-0.335226	1.952196	0.000000	5	6	0	-0.324248	1.961482	0.000000	
6	6	0	-1.633650	2.346949	0.000000	6	6	0	-1.640921	2.367641	0.000000	
7	1	0	-1.591553	-2.491389	0.000000	7	1	0	-1.587560	-2.476648	0.000000	
8	1	0	-3.714012	1.723448	0.000000	8	1	0	-3.701782	1.741321	0.000000	
9	1	0	-3.209387	-0.674582	0.000000	9	1	0	-3.170122	-0.661197	0.000000	
10	6	0	-0.765135	-1.789416	0.000000	10	6	0	-0.743326	-1.796538	0.000000	
11	6	0	1.274595	0.041868	0.000000	11	6	0	1.313242	0.063838	0.000000	
12	1	0	0.466106	2.682030	0.000000	12	1	0	0.474823	2.693578	0.000000	
13	1	0	-1.881502	3.401838	0.000000	13	1	0	-1.882378	3.423685	0.000000	
14	6	0	1.539487	-1.321413	0.000000	14	6	0	1.569517	-1.363052	0.000000	
15	6	0	0.549258	-2.271882	0.000000	15	6	0	0.537451	-2.300035	0.000000	
16	1	0	0.749648	-3.336274	0.000000	16	1	0	0.716216	-3.368323	0.000000	
17	6	0	3.041447	-1.001804	0.000000	17	6	0	2.981295	-1.100823	0.000000	
18	1	0	3.946072	-1.592081	0.000000	18	1	0	3.875652	-1.704417	0.000000	
19	6	0	2.785372	0.311897	0.000000	19	6	0	2.710302	0.320891	0.000000	
20	1	0	3.403563	1.197540	0.000000	20	1	0	3.328095	1.206017	0.000000	



S ₀							T ₁					
E = -615.46347 a.u.							E = -615.3460238 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			
			X	Y	Z				X	Y	Z	
1	6	0	0.000000	-0.700283	-4.300120	1	6	0	0.000000	-0.699647	-4.286949	
2	6	0	0.000000	-1.387251	-3.108985	2	6	0	0.000000	-1.390274	-3.093050	
3	6	0	0.000000	-0.712168	-1.875223	3	6	0	0.000000	-0.728609	-1.850706	
4	6	0	0.000000	0.712168	-1.875223	4	6	0	0.000000	0.728609	-1.850706	
5	6	0	0.000000	1.387251	-3.108985	5	6	0	0.000000	1.390274	-3.093050	
6	6	0	0.000000	0.700283	-4.300120	6	6	0	0.000000	0.699647	-4.286949	
7	1	0	0.000000	-2.530561	-0.654273	7	1	0	0.000000	-2.555744	-0.647387	
8	1	0	0.000000	-1.241336	-5.238635	8	1	0	0.000000	-1.241127	-5.225121	
9	1	0	0.000000	-2.471718	-3.107644	9	1	0	0.000000	-2.474200	-3.095092	
10	6	0	0.000000	-1.447113	-0.632276	10	6	0	0.000000	-1.474866	-0.630685	
11	6	0	0.000000	1.447113	-0.632276	11	6	0	0.000000	1.474866	-0.630685	
12	1	0	0.000000	2.471718	-3.107644	12	1	0	0.000000	2.474200	-3.095092	
13	1	0	0.000000	1.241336	-5.238635	13	1	0	0.000000	1.241127	-5.225121	
14	6	0	0.000000	0.721726	0.499341	14	6	0	0.000000	0.721715	0.527245	
15	6	0	0.000000	-0.721726	0.499341	15	6	0	0.000000	-0.721715	0.527245	
16	1	0	0.000000	2.530561	-0.654273	16	1	0	0.000000	2.555744	-0.647387	
17	6	0	0.000000	0.706353	1.998078	17	6	0	0.000000	0.723577	1.970511	
18	6	0	0.000000	-0.706353	1.998078	18	6	0	0.000000	-0.723577	1.970511	
19	6	0	0.000000	1.437502	3.156458	19	6	0	0.000000	1.471000	3.134236	
20	1	0	0.000000	2.520122	3.175606	20	1	0	0.000000	2.551083	3.155760	
21	6	0	0.000000	-1.437502	3.156458	21	6	0	0.000000	-1.471000	3.134236	
22	1	0	0.000000	-2.520122	3.175606	22	1	0	0.000000	-2.551083	3.155760	
23	6	0	0.000000	-0.693344	4.350425	23	6	0	0.000000	-0.697192	4.318730	
24	1	0	0.000000	-1.217378	5.298760	24	1	0	0.000000	-1.205488	5.275851	
25	6	0	0.000000	0.693344	4.350425	25	6	0	0.000000	0.697192	4.318730	
26	1	0	0.000000	1.217378	5.298760	26	1	0	0.000000	1.205488	5.275851	

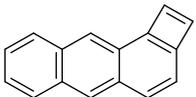


S ₀							T ₁						
E = -615.4528847 a.u.							E = -615.3946886 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	2.602357	-3.157937	0.000000	1	6	0	3.136207	-2.635094	0.000000		
2	6	0	1.251872	-3.341591	0.000000	2	6	0	1.800011	-3.032360	0.000000		
3	6	0	0.359919	-2.234021	0.000000	3	6	0	0.769425	-2.100852	0.000000		
4	6	0	0.926035	-0.914710	0.000000	4	6	0	1.110766	-0.711301	0.000000		
5	6	0	2.338743	-0.758017	0.000000	5	6	0	2.454624	-0.329924	0.000000		
6	6	0	3.152554	-1.850254	0.000000	6	6	0	3.461147	-1.286779	0.000000		
7	1	0	-1.417706	-3.435512	0.000000	7	1	0	-0.800799	-3.608174	0.000000		
8	1	0	3.266489	-4.013767	0.000000	8	1	0	3.919401	-3.383275	0.000000		
9	1	0	0.835411	-4.342805	0.000000	9	1	0	1.555821	-4.088977	0.000000		
10	6	0	-1.040230	-2.419110	0.000000	10	6	0	-0.625808	-2.538722	0.000000		
11	6	0	0.000000	0.122824	0.000000	11	6	0	0.000000	0.170246	0.000000		
12	1	0	2.754222	0.242625	0.000000	12	1	0	2.705993	0.724139	0.000000		
13	1	0	4.228861	-1.726514	0.000000	13	1	0	4.499376	-0.977659	0.000000		
14	6	0	-1.372375	-0.089939	0.000000	14	6	0	-1.399197	-0.320040	0.000000		
15	6	0	-1.932014	-1.358192	0.000000	15	6	0	-1.701816	-1.668841	0.000000		
16	1	0	-3.001109	-1.529111	0.000000	16	1	0	-2.717440	-2.045693	0.000000		
17	6	0	-1.616057	1.402727	0.000000	17	6	0	-1.850872	1.051824	0.000000		
18	6	0	-0.213995	1.618650	0.000000	18	6	0	-0.479057	1.513716	0.000000		
19	6	0	-2.511200	2.426096	0.000000	19	6	0	-2.920998	1.934946	0.000000		
20	1	0	-3.584306	2.281094	0.000000	20	1	0	-3.953828	1.609402	0.000000		
21	6	0	0.330303	2.865432	0.000000	21	6	0	-0.172162	2.878222	0.000000		
22	1	0	1.396794	3.052806	0.000000	22	1	0	0.843140	3.254327	0.000000		
23	6	0	-0.594501	3.942936	0.000000	23	6	0	-1.251863	3.739489	0.000000		
24	1	0	-0.217178	4.958520	0.000000	24	1	0	-1.076188	4.808800	0.000000		
25	6	0	-1.954814	3.732705	0.000000	25	6	0	-2.595032	3.283077	0.000000		
26	1	0	-2.621059	4.587075	0.000000	26	1	0	-3.387725	4.021474	0.000000		

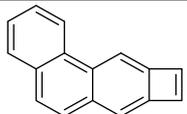


S ₀							T ₁						
E = -615.4405653 a.u.							E = -615.3506129 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	0.000000	0.707354	-4.241016	1	6	0	0.000000	-0.681513	-4.301508		
2	6	0	0.000000	1.395773	-3.062200	2	6	0	0.000000	-1.389894	-3.068850		
3	6	0	0.000000	0.710208	-1.820127	3	6	0	0.000000	-0.720140	-1.854302		
4	6	0	0.000000	-0.710208	-1.820127	4	6	0	0.000000	0.720140	-1.854302		
5	6	0	0.000000	-1.395773	-3.062200	5	6	0	0.000000	1.389894	-3.068850		
6	6	0	0.000000	-0.707354	-4.241016	6	6	0	0.000000	0.681513	-4.301508		
7	6	0	0.000000	1.388653	-0.584758	7	6	0	0.000000	-1.396023	-0.606341		
8	6	0	0.000000	-1.388653	-0.584758	8	6	0	0.000000	1.396023	-0.606341		
9	6	0	0.000000	-0.722214	0.618497	9	6	0	0.000000	0.702143	0.657913		
10	6	0	0.000000	0.722214	0.618497	10	6	0	0.000000	-0.702143	0.657913		
11	6	0	0.000000	1.457537	1.882536	11	6	0	0.000000	-1.433613	1.882665		
12	1	0	0.000000	2.541186	1.862261	12	1	0	0.000000	-2.517327	1.862607		
13	6	0	0.000000	0.729074	2.998456	13	6	0	0.000000	-0.705882	3.028248		
14	6	0	0.000000	-0.729074	2.998456	14	6	0	0.000000	0.705882	3.028248		
15	6	0	0.000000	-1.457537	1.882536	15	6	0	0.000000	1.433613	1.882665		
16	1	0	0.000000	2.474132	-0.587846	16	1	0	0.000000	-2.480153	-0.600702		
17	1	0	0.000000	1.241539	-5.183594	17	1	0	0.000000	-1.233909	-5.233042		
18	1	0	0.000000	2.480254	-3.058523	18	1	0	0.000000	-2.473938	-3.075908		
19	1	0	0.000000	-2.480254	-3.058523	19	1	0	0.000000	2.473938	-3.075908		
20	1	0	0.000000	-1.241539	-5.183594	20	1	0	0.000000	1.233909	-5.233042		
21	1	0	0.000000	-2.474132	-0.587846	21	1	0	0.000000	2.480153	-0.600702		
22	1	0	0.000000	-2.541186	1.862261	22	1	0	0.000000	2.517327	1.862607		

23	6	0	0.000000	-0.675895	4.491036	23	6	0	0.000000	0.671347	4.548986
24	1	0	0.000000	-1.421587	5.273152	24	1	0	0.000000	1.421569	5.326186
25	6	0	0.000000	0.675895	4.491036	25	6	0	0.000000	-0.671347	4.548986
26	1	0	0.000000	1.421587	5.273152	26	1	0	0.000000	-1.421569	5.326186

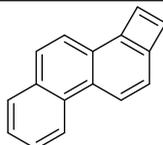


S_0						T_1					
E = -615.4115848 a.u.						E = -615.3923524 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	-1.297480	-4.000845	0.000000	1	6	0	1.477896	-3.944452	0.000000
2	6	0	-0.105072	-3.358554	0.000000	2	6	0	0.253736	-3.333619	0.000000
3	6	0	-0.035135	-1.926735	0.000000	3	6	0	0.145975	-1.922900	0.000000
4	6	0	-1.266984	-1.178781	0.000000	4	6	0	1.335294	-1.142394	0.000000
5	6	0	-2.504365	-1.904713	0.000000	5	6	0	2.587974	-1.805113	0.000000
6	6	0	-2.520124	-3.258733	0.000000	6	6	0	2.658650	-3.170355	0.000000
7	6	0	1.172988	-1.252821	0.000000	7	6	0	-1.107638	-1.267061	0.000000
8	6	0	-1.224273	0.202026	0.000000	8	6	0	1.229270	0.263391	0.000000
9	6	0	0.000000	0.894447	0.000000	9	6	0	0.000000	0.894271	0.000000
10	6	0	1.244891	0.149324	0.000000	10	6	0	-1.217582	0.102421	0.000000
11	6	0	2.487837	0.826146	0.000000	11	6	0	-2.521525	0.743120	0.000000
12	1	0	3.392091	0.228287	0.000000	12	1	0	-3.386968	0.090586	0.000000
13	6	0	2.578294	2.210073	0.000000	13	6	0	-2.696964	2.112085	0.000000
14	6	0	1.377575	2.900500	0.000000	14	6	0	-1.542342	2.883789	0.000000
15	6	0	0.152722	2.275009	0.000000	15	6	0	-0.212387	2.292851	0.000000
16	1	0	2.096060	-1.823664	0.000000	16	1	0	-2.007840	-1.873328	0.000000
17	1	0	-1.334754	-5.083526	0.000000	17	1	0	1.546086	-5.025616	0.000000
18	1	0	0.523540	-3.918475	0.000000	18	1	0	-0.654508	-3.926084	0.000000
19	1	0	-3.430951	-1.341567	0.000000	19	1	0	3.493411	-1.208458	0.000000
20	1	0	-3.462936	-3.792594	0.000000	20	1	0	3.622729	-3.664574	0.000000
21	1	0	-2.150402	0.766205	0.000000	21	1	0	2.135526	0.859102	0.000000
22	1	0	3.541874	2.704329	0.000000	22	1	0	-3.690688	2.543395	0.000000
23	6	0	0.656879	4.263443	0.000000	23	6	0	-0.935402	4.192652	0.000000
24	1	0	0.975951	5.295286	0.000000	24	1	0	-1.303747	5.207211	0.000000
25	6	0	-0.533449	3.654385	0.000000	25	6	0	0.358769	3.601483	0.000000
26	1	0	-1.556301	4.000705	0.000000	26	1	0	1.363662	3.996748	0.000000

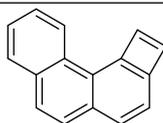


S_0						T_1					
E = -615.440046 a.u.						E = -615.3860517 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	2.795962	-2.954153	0.000000	1	6	0	2.932572	-2.815493	0.000000
2	6	0	1.452086	-3.205453	0.000000	2	6	0	1.591050	-3.117980	0.000000
3	6	0	0.511372	-2.150431	0.000000	3	6	0	0.619097	-2.104921	0.000000
4	6	0	0.962296	-0.805788	0.000000	4	6	0	1.014545	-0.749051	0.000000
5	6	0	2.361107	-0.583187	0.000000	5	6	0	2.393032	-0.469984	0.000000
6	6	0	3.251833	-1.623283	0.000000	6	6	0	3.332729	-1.476582	0.000000
7	6	0	-0.883818	-2.419926	0.000000	7	6	0	-0.779350	-2.439493	0.000000
8	6	0	0.000000	0.267334	0.000000	8	6	0	0.000000	0.303674	0.000000
9	6	0	-1.371483	-0.044745	0.000000	9	6	0	-1.394638	-0.085702	0.000000
10	6	0	-1.783794	-1.405122	0.000000	10	6	0	-1.725577	-1.480941	0.000000
11	6	0	-2.383242	0.994494	0.000000	11	6	0	-2.434128	0.859655	0.000000
12	1	0	-3.429803	0.712802	0.000000	12	1	0	-3.464362	0.523474	0.000000
13	6	0	-1.947032	2.260240	0.000000	13	6	0	-2.075804	2.188467	0.000000
14	6	0	-0.550364	2.584728	0.000000	14	6	0	-0.673073	2.587854	0.000000
15	6	0	0.417407	1.657561	0.000000	15	6	0	0.351737	1.660012	0.000000

16	1	0	-1.215806	-3.451917	0.000000	16	1	0	-1.056698	-3.487462	0.000000
17	1	0	3.507336	-3.771086	0.000000	17	1	0	3.672584	-3.606480	0.000000
18	1	0	1.083501	-4.225366	0.000000	18	1	0	1.263899	-4.151815	0.000000
19	1	0	2.747455	0.426291	0.000000	19	1	0	2.739476	0.554005	0.000000
20	1	0	4.315950	-1.419333	0.000000	20	1	0	4.386733	-1.226096	0.000000
21	1	0	-2.846935	-1.618963	0.000000	21	1	0	-2.775955	-1.749409	0.000000
22	1	0	1.465208	1.921283	0.000000	22	1	0	1.386039	1.972836	0.000000
23	6	0	-2.246276	3.738469	0.000000	23	6	0	-2.477206	3.551648	0.000000
24	1	0	-3.151356	4.328522	0.000000	24	1	0	-3.418539	4.078714	0.000000
25	6	0	-0.934762	4.043446	0.000000	25	6	0	-1.044217	3.954769	0.000000
26	1	0	-0.383298	4.972660	0.000000	26	1	0	-0.517796	4.896640	0.000000

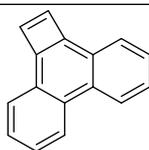


S_0						T_1					
E = -615.4275101 a.u.						E = -615.3921576 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	3.905243	-1.209253	0.000000	1	6	0	3.844935	-1.343454	0.000000
2	6	0	2.779179	-1.998777	0.000000	2	6	0	2.706892	-2.104658	0.000000
3	6	0	1.494431	-1.432485	0.000000	3	6	0	1.428847	-1.507038	0.000000
4	6	0	1.346167	-0.028720	0.000000	4	6	0	1.312978	-0.092192	0.000000
5	6	0	2.512936	0.753613	0.000000	5	6	0	2.509674	0.662687	0.000000
6	6	0	3.765624	0.180674	0.000000	6	6	0	3.739463	0.057201	0.000000
7	6	0	0.330527	-2.286797	0.000000	7	6	0	0.254783	-2.317279	0.000000
8	6	0	0.000000	0.552390	0.000000	8	6	0	0.000000	0.509061	0.000000
9	6	0	-1.127421	-0.355258	0.000000	9	6	0	-1.129417	-0.341764	0.000000
10	6	0	-0.912438	-1.779918	0.000000	10	6	0	-0.977242	-1.756455	0.000000
11	6	0	-2.361606	0.233018	0.000000	11	6	0	-2.384526	0.302146	0.000000
12	6	0	-2.557121	1.617441	0.000000	12	6	0	-2.519394	1.742269	0.000000
13	6	0	-1.515743	2.494008	0.000000	13	6	0	-1.400833	2.569335	0.000000
14	6	0	-0.223251	1.922881	0.000000	14	6	0	-0.173411	1.940863	0.000000
15	1	0	0.488534	-3.359488	0.000000	15	1	0	0.371031	-3.395098	0.000000
16	1	0	4.890483	-1.659313	0.000000	16	1	0	4.820253	-1.814648	0.000000
17	1	0	2.870274	-3.079387	0.000000	17	1	0	2.771453	-3.187068	0.000000
18	1	0	2.440615	1.832530	0.000000	18	1	0	2.468655	1.742604	0.000000
19	1	0	4.644970	0.813613	0.000000	19	1	0	4.636506	0.664784	0.000000
20	1	0	-1.778499	-2.431295	0.000000	20	1	0	-1.866917	-2.374995	0.000000
21	1	0	-1.638317	3.570015	0.000000	21	1	0	-1.467064	3.650367	0.000000
22	1	0	0.620156	2.599189	0.000000	22	1	0	0.709208	2.563943	0.000000
23	6	0	-4.066476	1.374568	0.000000	23	6	0	-3.944832	1.610218	0.000000
24	1	0	-4.939885	2.010061	0.000000	24	1	0	-4.782083	2.290605	0.000000
25	6	0	-3.878996	0.047204	0.000000	25	6	0	-3.796959	0.157700	0.000000
26	1	0	-4.544665	-0.803451	0.000000	26	1	0	-4.486787	-0.672338	0.000000

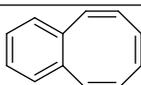


S_0						T_1					
E = -615.4297379 a.u.						E = -615.3953282 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	0.252057	-3.808062	0.000000	1	6	0	-0.255908	-3.815682	0.000000
2	6	0	-0.973591	-3.181251	0.000000	2	6	0	0.967822	-3.199346	0.000000
3	6	0	-1.069785	-1.781207	0.000000	3	6	0	1.070858	-1.792271	0.000000
4	6	0	0.107032	-1.006302	0.000000	4	6	0	-0.108700	-1.009345	0.000000
5	6	0	1.344634	-1.665678	0.000000	5	6	0	-1.354682	-1.671003	0.000000
6	6	0	1.420310	-3.041929	0.000000	6	6	0	-1.428226	-3.040856	0.000000

7	6	0	-2.357359	-1.128378	0.000000	7	6	0	2.339695	-1.143326	0.000000
8	6	0	0.000000	0.449518	0.000000	8	6	0	0.000000	0.425055	0.000000
9	6	0	-1.308260	1.067953	0.000000	9	6	0	1.276245	1.036598	0.000000
10	6	0	-2.467568	0.211678	0.000000	10	6	0	2.433517	0.212395	0.000000
11	6	0	-1.454126	2.448358	0.000000	11	6	0	1.433215	2.469719	0.000000
12	1	0	-2.457613	2.858397	0.000000	12	1	0	2.447389	2.852792	0.000000
13	6	0	-0.349538	3.325197	0.000000	13	6	0	0.374819	3.347279	0.000000
14	6	0	0.873305	2.726976	0.000000	14	6	0	-0.892267	2.768398	0.000000
15	6	0	1.044770	1.334313	0.000000	15	6	0	-1.084811	1.326953	0.000000
16	1	0	-3.243975	-1.752352	0.000000	16	1	0	3.234868	-1.754805	0.000000
17	1	0	0.311376	-4.889738	0.000000	17	1	0	-0.322789	-4.896896	0.000000
18	1	0	-1.886093	-3.767124	0.000000	18	1	0	1.878506	-3.787955	0.000000
19	1	0	2.257585	-1.086105	0.000000	19	1	0	-2.265082	-1.088376	0.000000
20	1	0	2.387868	-3.529217	0.000000	20	1	0	-2.395386	-3.529117	0.000000
21	1	0	-3.444884	0.681329	0.000000	21	1	0	3.407338	0.689077	0.000000
22	1	0	-0.490350	4.398803	0.000000	22	1	0	0.532456	4.418645	0.000000
23	6	0	2.389496	2.890799	0.000000	23	6	0	-2.306339	2.963200	0.000000
24	1	0	3.063566	3.734750	0.000000	24	1	0	-2.965014	3.817582	0.000000
25	6	0	2.560393	1.562444	0.000000	25	6	0	-2.496304	1.521570	0.000000
26	1	0	3.431898	0.924686	0.000000	26	1	0	-3.365888	0.883031	0.000000

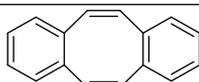


S ₀						T ₁					
E = -615.4187187 a.u.						E = -615.3987842 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	0.000000	-3.558915	-0.738238	1	6	0	0.000000	-3.574004	-0.752823
2	6	0	0.000000	-2.869154	0.441352	2	6	0	0.000000	-2.888662	0.440382
3	6	0	0.000000	-1.454071	0.448139	3	6	0	0.000000	-1.483169	0.461390
4	6	0	0.000000	-0.725419	-0.783866	4	6	0	0.000000	-0.743287	-0.758362
5	6	0	0.000000	-1.485099	-1.975396	5	6	0	0.000000	-1.477706	-1.947752
6	6	0	0.000000	-2.856082	-1.957863	6	6	0	0.000000	-2.861834	-1.952721
7	6	0	0.000000	-0.679009	1.612942	7	6	0	0.000000	-0.718865	1.649449
8	6	0	0.000000	0.725419	-0.783866	8	6	0	0.000000	0.743287	-0.758362
9	6	0	0.000000	1.454071	0.448139	9	6	0	0.000000	1.483169	0.461390
10	6	0	0.000000	0.679009	1.612942	10	6	0	0.000000	0.718865	1.649449
11	6	0	0.000000	2.869154	0.441352	11	6	0	0.000000	2.888662	0.440382
12	1	0	0.000000	3.394092	1.389433	12	1	0	0.000000	3.424015	1.382569
13	6	0	0.000000	3.558915	-0.738238	13	6	0	0.000000	3.574004	-0.752823
14	6	0	0.000000	2.856082	-1.957863	14	6	0	0.000000	2.861834	-1.952721
15	6	0	0.000000	1.485099	-1.975396	15	6	0	0.000000	1.477706	-1.947752
16	1	0	0.000000	-4.642242	-0.738760	16	1	0	0.000000	-4.657213	-0.761524
17	1	0	0.000000	-3.394092	1.389433	17	1	0	0.000000	-3.424015	1.382569
18	1	0	0.000000	-0.984754	-2.933799	18	1	0	0.000000	-0.968556	-2.901340
19	1	0	0.000000	-3.403365	-2.892736	19	1	0	0.000000	-3.391656	-2.897536
20	1	0	0.000000	4.642242	-0.738760	20	1	0	0.000000	4.657213	-0.761524
21	1	0	0.000000	3.403365	-2.892736	21	1	0	0.000000	3.391656	-2.897536
22	1	0	0.000000	0.984754	-2.933799	22	1	0	0.000000	0.968556	-2.901340
23	6	0	0.000000	-0.668053	3.160049	23	6	0	0.000000	-0.719054	3.081425
24	1	0	0.000000	-1.421946	3.933156	24	1	0	0.000000	-1.474693	3.851899
25	6	0	0.000000	0.668053	3.160049	25	6	0	0.000000	0.719054	3.081425
26	1	0	0.000000	1.421946	3.933156	26	1	0	0.000000	1.474693	3.851899

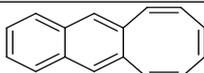


S ₀					T ₁				
E = -463.0622757 a.u.					E = -463.029147 a.u.				
Center	Atomic	Atomic	Coordinates (Angstroms)		Center	Atomic	Atomic	Coordinates (Angstroms)	
			X	Y				X	Y

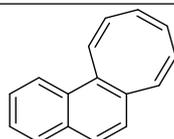
Number	Number	Type	X	Y	Z	Number	Number	Type	X	Y	Z
1	6	0	0.000000	0.688422	3.043396	1	6	0	0.000000	0.700455	3.033827
2	6	0	0.000000	-0.688422	3.043396	2	6	0	0.000000	-0.700455	3.033827
3	6	0	0.000000	-1.353640	1.824337	3	6	0	0.000000	-1.362507	1.836564
4	6	0	0.000000	-0.707932	0.584950	4	6	0	0.000000	-0.718494	0.566621
5	6	0	0.000000	0.707932	0.584950	5	6	0	0.000000	0.718494	0.566621
6	6	0	0.000000	1.353640	1.824337	6	6	0	0.000000	1.362507	1.836564
7	1	0	0.000000	1.250751	3.968971	7	1	0	0.000000	1.255513	3.963700
8	1	0	0.000000	-1.250751	3.968971	8	1	0	0.000000	-1.255513	3.963700
9	1	0	0.000000	-2.436962	1.833004	9	1	0	0.000000	-2.445801	1.843907
10	1	0	0.000000	2.436962	1.833004	10	1	0	0.000000	2.445801	1.843907
11	6	0	0.000000	-1.672813	-0.541176	11	6	0	0.000000	-1.653329	-0.514167
12	1	0	0.000000	-2.683152	-0.144681	12	1	0	0.000000	-2.669829	-0.135252
13	6	0	0.000000	1.672813	-0.541176	13	6	0	0.000000	1.653329	-0.514167
14	1	0	0.000000	2.683152	-0.144681	14	1	0	0.000000	2.669829	-0.135252
15	6	0	0.000000	-1.669698	-1.879548	15	6	0	0.000000	-1.655915	-1.917215
16	1	0	0.000000	-2.673495	-2.294897	16	1	0	0.000000	-2.669745	-2.306987
17	6	0	0.000000	1.669698	-1.879548	17	6	0	0.000000	1.655915	-1.917215
18	1	0	0.000000	2.673495	-2.294897	18	1	0	0.000000	2.669745	-2.306987
19	6	0	0.000000	-0.667793	-2.938050	19	6	0	0.000000	-0.711264	-2.914240
20	1	0	0.000000	-1.118578	-3.925853	20	1	0	0.000000	-1.134567	-3.913713
21	6	0	0.000000	0.667793	-2.938050	21	6	0	0.000000	0.711264	-2.914240
22	1	0	0.000000	1.118578	-3.925853	22	1	0	0.000000	1.134567	-3.913713



S ₀						T ₁					
E = -616.664116 a.u.						E = -616.6056108 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	0.000000	0.690910	4.258603	1	6	0	0.000000	0.709255	-4.244635
2	6	0	0.000000	-0.690910	4.258603	2	6	0	0.000000	-0.709255	-4.244635
3	6	0	0.000000	-1.357497	3.044993	3	6	0	0.000000	-1.372679	-3.060581
4	6	0	0.000000	-0.704704	1.805526	4	6	0	0.000000	-0.722717	-1.780320
5	6	0	0.000000	0.704704	1.805526	5	6	0	0.000000	0.722717	-1.780320
6	6	0	0.000000	1.357497	3.044993	6	6	0	0.000000	1.372679	-3.060581
7	1	0	0.000000	1.250230	5.186000	7	1	0	0.000000	1.257113	-5.178755
8	1	0	0.000000	-1.250230	5.186000	8	1	0	0.000000	-1.257113	-5.178755
9	1	0	0.000000	-2.440999	3.050181	9	1	0	0.000000	-2.456110	-3.064551
10	1	0	0.000000	2.440999	3.050181	10	1	0	0.000000	2.456110	-3.064551
11	6	0	0.000000	-1.640555	0.669389	11	6	0	0.000000	-1.621747	-0.698523
12	1	0	0.000000	-2.656770	1.051668	12	1	0	0.000000	-2.645378	-1.059464
13	6	0	0.000000	1.640555	0.669389	13	6	0	0.000000	1.621747	-0.698523
14	1	0	0.000000	2.656770	1.051668	14	1	0	0.000000	2.645378	-1.059464
15	6	0	0.000000	-1.640555	-0.669389	15	6	0	0.000000	-1.621747	0.698523
16	1	0	0.000000	-2.656770	-1.051668	16	1	0	0.000000	-2.645378	1.059464
17	6	0	0.000000	1.640555	-0.669389	17	6	0	0.000000	1.621747	0.698523
18	1	0	0.000000	2.656770	-1.051668	18	1	0	0.000000	2.645378	1.059464
19	6	0	0.000000	-0.704704	-1.805526	19	6	0	0.000000	-0.722717	1.780320
20	6	0	0.000000	0.704704	-1.805526	20	6	0	0.000000	0.722717	1.780320
21	6	0	0.000000	1.357497	-3.044993	21	6	0	0.000000	1.372679	3.060581
22	1	0	0.000000	2.440999	-3.050181	22	1	0	0.000000	2.456110	3.064551
23	6	0	0.000000	-1.357497	-3.044993	23	6	0	0.000000	-1.372679	3.060581
24	1	0	0.000000	-2.440999	-3.050181	24	1	0	0.000000	-2.456110	3.064551
25	6	0	0.000000	0.690910	-4.258603	25	6	0	0.000000	0.709255	4.244635
26	1	0	0.000000	1.250230	-5.186000	26	1	0	0.000000	1.257113	5.178755
27	6	0	0.000000	-0.690910	-4.258603	27	6	0	0.000000	-0.709255	4.244635
28	1	0	0.000000	-1.250230	-5.186000	28	1	0	0.000000	-1.257113	5.178755

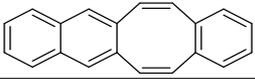


S ₀							T ₁					
E = -616.6547492 a.u.							E = -616.6149119 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			
			X	Y	Z				X	Y	Z	
1	6	0	0.000000	0.704341	4.264616	1	6	0	0.000000	0.709667	4.261057	
2	6	0	0.000000	1.396338	3.081221	2	6	0	0.000000	1.400503	3.085587	
3	6	0	0.000000	0.703736	1.852058	3	6	0	0.000000	0.709355	1.844103	
4	6	0	0.000000	-0.703736	1.852058	4	6	0	0.000000	-0.709355	1.844103	
5	6	0	0.000000	-1.396338	3.081221	5	6	0	0.000000	-1.400503	3.085587	
6	6	0	0.000000	-0.704341	4.264616	6	6	0	0.000000	-0.709667	4.261057	
7	1	0	0.000000	2.444108	0.611270	7	1	0	0.000000	2.448377	0.624513	
8	1	0	0.000000	1.239029	5.206856	8	1	0	0.000000	1.241389	5.204882	
9	1	0	0.000000	2.480708	3.076865	9	1	0	0.000000	2.484770	3.082121	
10	6	0	0.000000	1.359934	0.596721	10	6	0	0.000000	1.364357	0.610663	
11	6	0	0.000000	-1.359934	0.596721	11	6	0	0.000000	-1.364357	0.610663	
12	1	0	0.000000	-2.480708	3.076865	12	1	0	0.000000	-2.484770	3.082121	
13	1	0	0.000000	-1.239029	5.206856	13	1	0	0.000000	-1.241389	5.204882	
14	6	0	0.000000	-0.722686	-0.622109	14	6	0	0.000000	-0.729055	-0.636716	
15	6	0	0.000000	0.722686	-0.622109	15	6	0	0.000000	0.729055	-0.636716	
16	1	0	0.000000	-2.444108	0.611270	16	1	0	0.000000	-2.448377	0.624513	
17	6	0	0.000000	-1.675270	-1.750690	17	6	0	0.000000	-1.658212	-1.724517	
18	1	0	0.000000	-2.687889	-1.360030	18	1	0	0.000000	-2.676192	-1.350095	
19	6	0	0.000000	1.675270	-1.750690	19	6	0	0.000000	1.658212	-1.724517	
20	1	0	0.000000	2.687889	-1.360030	20	1	0	0.000000	2.676192	-1.350095	
21	6	0	0.000000	-1.667416	-3.091938	21	6	0	0.000000	-1.656567	-3.133780	
22	1	0	0.000000	-2.671249	-3.507446	22	1	0	0.000000	-2.670968	-3.522341	
23	6	0	0.000000	1.667416	-3.091938	23	6	0	0.000000	1.656567	-3.133780	
24	1	0	0.000000	2.671249	-3.507446	24	1	0	0.000000	2.670968	-3.522341	
25	6	0	0.000000	-0.669184	-4.145471	25	6	0	0.000000	-0.717275	-4.125261	
26	6	0	0.000000	0.669184	-4.145471	26	6	0	0.000000	0.717275	-4.125261	
27	1	0	0.000000	1.118625	-5.133970	27	1	0	0.000000	1.137610	-5.125896	
28	1	0	0.000000	-1.118625	-5.133970	28	1	0	0.000000	-1.137610	-5.125896	

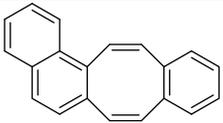


S ₀							T ₁					
E = -616.6382327 a.u.							E = -616.6126377 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			
			X	Y	Z				X	Y	Z	
1	6	0	3.130399	-2.683160	0.000000	1	6	0	3.201114	-2.607036	0.000000	
2	6	0	1.820426	-3.052149	0.000000	2	6	0	1.888208	-2.998123	0.000000	
3	6	0	0.784721	-2.084557	0.000000	3	6	0	0.845303	-2.054039	0.000000	
4	6	0	1.075121	-0.688206	0.000000	4	6	0	1.111052	-0.662996	0.000000	
5	6	0	2.466226	-0.358456	0.000000	5	6	0	2.481008	-0.305134	0.000000	
6	6	0	3.446071	-1.310548	0.000000	6	6	0	3.489985	-1.239394	0.000000	
7	1	0	-0.786708	-3.558572	0.000000	7	1	0	-0.704689	-3.569454	0.000000	
8	1	0	3.918316	-3.426164	0.000000	8	1	0	3.998935	-3.339371	0.000000	
9	1	0	1.538679	-4.099078	0.000000	9	1	0	1.627051	-4.050401	0.000000	
10	6	0	-0.555216	-2.499789	0.000000	10	6	0	-0.505119	-2.504324	0.000000	
11	6	0	0.000000	0.287243	0.000000	11	6	0	0.000000	0.319404	0.000000	
12	1	0	2.801606	0.665177	0.000000	12	1	0	2.793303	0.726727	0.000000	
13	1	0	4.483760	-0.998793	0.000000	13	1	0	4.519925	-0.903237	0.000000	
14	6	0	-1.315930	-0.173770	0.000000	14	6	0	-1.340825	-0.191623	0.000000	
15	6	0	-1.549334	-1.573554	0.000000	15	6	0	-1.518296	-1.616531	0.000000	
16	1	0	-2.575738	-1.917529	0.000000	16	1	0	-2.534649	-1.989560	0.000000	
17	6	0	0.457787	1.698744	0.000000	17	6	0	0.405787	1.673476	0.000000	
18	1	0	1.531316	1.745632	0.000000	18	1	0	1.477228	1.766253	0.000000	
19	6	0	-0.028994	2.948414	0.000000	19	6	0	-0.131429	2.974247	0.000000	

20	1	0	0.766466	3.688714	0.000000	20	1	0	0.664845	3.713107	0.000000
21	6	0	-2.617872	0.551894	0.000000	21	6	0	-2.607859	0.470988	0.000000
22	1	0	-3.418018	-0.180137	0.000000	22	1	0	-3.404022	-0.265094	0.000000
23	6	0	-3.115600	1.793308	0.000000	23	6	0	-3.161529	1.750877	0.000000
24	1	0	-4.201877	1.801836	0.000000	24	1	0	-4.246795	1.710656	0.000000
25	6	0	-2.578934	3.147861	0.000000	25	6	0	-2.680574	3.047000	0.000000
26	1	0	-3.355084	3.906741	0.000000	26	1	0	-3.457023	3.805227	0.000000
27	6	0	-1.329477	3.610093	0.000000	27	6	0	-1.375936	3.567085	0.000000
28	1	0	-1.239087	4.691970	0.000000	28	1	0	-1.339442	4.651881	0.000000

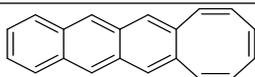


S_0							T_1						
E = -770.2547529 a.u.							E = -770.1878865 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	0.000000	0.705694	5.479699	1	6	0	-3.806838	3.999976	0.000000		
2	6	0	0.000000	1.397109	4.298521	2	6	0	-2.458111	3.786080	0.000000		
3	6	0	0.000000	0.705202	3.065530	3	6	0	-1.935930	2.468731	0.000000		
4	6	0	0.000000	-0.705202	3.065530	4	6	0	-2.838115	1.364276	0.000000		
5	6	0	0.000000	-1.397109	4.298521	5	6	0	-4.242320	1.623951	0.000000		
6	6	0	0.000000	-0.705694	5.479699	6	6	0	-4.709124	2.902103	0.000000		
7	1	0	0.000000	2.447480	1.826696	7	1	0	0.110896	3.050146	0.000000		
8	1	0	0.000000	1.239634	6.422328	8	1	0	-4.197459	5.010278	0.000000		
9	1	0	0.000000	2.481420	4.294391	9	1	0	-1.768581	4.622954	0.000000		
10	6	0	0.000000	1.363183	1.816071	10	6	0	-0.560701	2.198751	0.000000		
11	6	0	0.000000	-1.363183	1.816071	11	6	0	-2.307784	0.086890	0.000000		
12	1	0	0.000000	-2.481420	4.294391	12	1	0	-4.928595	0.784578	0.000000		
13	1	0	0.000000	-1.239634	6.422328	13	1	0	-5.775864	3.091289	0.000000		
14	6	0	0.000000	-0.718077	0.598091	14	6	0	-0.910218	-0.207936	0.000000		
15	6	0	0.000000	0.718077	0.598091	15	6	0	0.000000	0.928911	0.000000		
16	1	0	0.000000	-2.447480	1.826696	16	1	0	-2.995126	-0.751384	0.000000		
17	6	0	0.000000	-1.644423	-0.542671	17	6	0	-0.629537	-1.571341	0.000000		
18	1	0	0.000000	-2.662440	-0.165411	18	1	0	-1.543788	-2.155645	0.000000		
19	6	0	0.000000	1.644423	-0.542671	19	6	0	1.442055	0.938634	0.000000		
20	1	0	0.000000	2.662440	-0.165411	20	1	0	1.793661	1.965417	0.000000		
21	6	0	0.000000	-1.639571	-1.882814	21	6	0	0.493667	-2.472727	0.000000		
22	1	0	0.000000	-2.655455	-2.265906	22	1	0	0.119490	-3.491385	0.000000		
23	6	0	0.000000	1.639571	-1.882814	23	6	0	2.501259	0.078836	0.000000		
24	1	0	0.000000	2.655455	-2.265906	24	1	0	3.431029	0.639410	0.000000		
25	6	0	0.000000	-0.704524	-3.015183	25	6	0	1.874534	-2.448841	0.000000		
26	6	0	0.000000	0.704524	-3.015183	26	6	0	2.786403	-1.319917	0.000000		
27	6	0	0.000000	-1.357890	-4.257512	27	6	0	2.475630	-3.770027	0.000000		
28	1	0	0.000000	-2.441429	-4.261807	28	1	0	1.798956	-4.616246	0.000000		
29	6	0	0.000000	1.357890	-4.257512	29	6	0	4.177063	-1.612323	0.000000		
30	1	0	0.000000	2.441429	-4.261807	30	1	0	4.861232	-0.772179	0.000000		
31	6	0	0.000000	-0.692089	-5.468676	31	6	0	3.810211	-3.988196	0.000000		
32	1	0	0.000000	-1.250638	-6.396619	32	1	0	4.200659	-4.998321	0.000000		
33	6	0	0.000000	0.692089	-5.468676	33	6	0	4.692618	-2.877556	0.000000		
34	1	0	0.000000	1.250638	-6.396619	34	1	0	5.764919	-3.028570	0.000000		



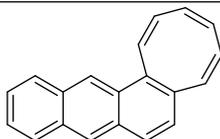
S_0							T_1						
E = -770.2421109 a.u.							E = -770.195282 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	-0.909537	5.130161	0.000000	1	6	0	-0.688227	5.175256	0.000000		
2	6	0	0.381404	4.694817	0.000000	2	6	0	0.588519	4.659815	0.000000		
3	6	0	0.689682	3.312730	0.000000	3	6	0	0.814780	3.278393	0.000000		

4	6	0	-0.338873	2.328457	0.000000	4	6	0	-0.259858	2.360757	0.000000
5	6	0	-1.671904	2.837301	0.000000	5	6	0	-1.549162	2.925604	0.000000
6	6	0	-1.944873	4.177217	0.000000	6	6	0	-1.761696	4.290517	0.000000
7	1	0	2.821266	3.641332	0.000000	7	1	0	2.978193	3.499434	0.000000
8	1	0	-1.139717	6.188422	0.000000	8	1	0	-0.853077	6.245644	0.000000
9	1	0	1.204383	5.400649	0.000000	9	1	0	1.446675	5.322593	0.000000
10	6	0	2.033749	2.896762	0.000000	10	6	0	2.163132	2.785299	0.000000
11	6	0	0.000000	0.914299	0.000000	11	6	0	0.000000	0.890428	0.000000
12	1	0	-2.523948	2.177552	0.000000	12	1	0	-2.432978	2.306965	0.000000
13	1	0	-2.977268	4.505940	0.000000	13	1	0	-2.777670	4.666656	0.000000
14	6	0	1.342577	0.551564	0.000000	14	6	0	1.391889	0.452159	0.000000
15	6	0	2.331958	1.573579	0.000000	15	6	0	2.412125	1.463190	0.000000
16	1	0	3.372236	1.273305	0.000000	16	1	0	3.441165	1.125935	0.000000
17	6	0	-1.152725	-0.000370	0.000000	17	6	0	-1.124012	0.077409	0.000000
18	1	0	-2.070268	0.560145	0.000000	18	1	0	-2.031242	0.657506	0.000000
19	6	0	-1.464396	-1.305950	0.000000	19	6	0	-1.509329	-1.276024	0.000000
20	1	0	-2.543044	-1.432208	0.000000	20	1	0	-2.593231	-1.332659	0.000000
21	6	0	1.974496	-0.783873	0.000000	21	6	0	1.938799	-0.846592	0.000000
22	1	0	3.051118	-0.650110	0.000000	22	1	0	3.021849	-0.782451	0.000000
23	6	0	1.682380	-2.090230	0.000000	23	6	0	1.573591	-2.181790	0.000000
24	1	0	2.589574	-2.687117	0.000000	24	1	0	2.460558	-2.807509	0.000000
25	6	0	0.517261	-2.984746	0.000000	25	6	0	0.403884	-2.990771	0.000000
26	6	0	-0.845990	-2.641662	0.000000	26	6	0	-0.965233	-2.581463	0.000000
27	6	0	0.855652	-4.341978	0.000000	27	6	0	0.671668	-4.387541	0.000000
28	6	0	-1.781592	-3.682315	0.000000	28	6	0	-1.954439	-3.612651	0.000000
29	1	0	-2.833939	-3.423792	0.000000	29	1	0	-2.994090	-3.307329	0.000000
30	6	0	-1.427240	-5.022307	0.000000	30	6	0	-1.655010	-4.943261	0.000000
31	1	0	-2.193916	-5.787237	0.000000	31	1	0	-2.447502	-5.681361	0.000000
32	6	0	-0.087289	-5.357840	0.000000	32	6	0	-0.305756	-5.342460	0.000000
33	1	0	0.228651	-6.393745	0.000000	33	1	0	-0.042427	-6.392952	0.000000
34	1	0	1.906440	-4.606833	0.000000	34	1	0	1.709790	-4.698117	0.000000

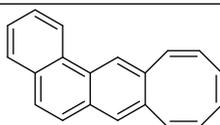


S ₀							T ₁					
E = -770.2390129 a.u.							E = -770.1965447 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			
			X	Y	Z				X	Y	Z	
1	6	0	0.000000	-0.710234	5.491759	1	6	0	0.000000	0.712310	5.491619	
2	6	0	0.000000	-1.398815	4.318265	2	6	0	0.000000	1.400781	4.321008	
3	6	0	0.000000	-0.714995	3.068418	3	6	0	0.000000	0.717711	3.066585	
4	6	0	0.000000	0.714995	3.068418	4	6	0	0.000000	-0.717711	3.066585	
5	6	0	0.000000	1.398815	4.318265	5	6	0	0.000000	-1.400781	4.321008	
6	6	0	0.000000	0.710234	5.491759	6	6	0	0.000000	-0.712310	5.491619	
7	6	0	0.000000	-1.397201	1.846797	7	6	0	0.000000	1.398878	1.853035	
8	6	0	0.000000	1.397201	1.846797	8	6	0	0.000000	-1.398878	1.853035	
9	6	0	0.000000	0.710980	0.643027	9	6	0	0.000000	-0.713897	0.637714	
10	6	0	0.000000	-0.710980	0.643027	10	6	0	0.000000	0.713897	0.637714	
11	6	0	0.000000	-1.364881	-0.624177	11	6	0	0.000000	1.368541	-0.610232	
12	1	0	0.000000	-2.448921	-0.609808	12	1	0	0.000000	2.452348	-0.594892	
13	6	0	0.000000	-0.729524	-1.836459	13	6	0	0.000000	0.736325	-1.850665	
14	6	0	0.000000	0.729524	-1.836459	14	6	0	0.000000	-0.736325	-1.850665	
15	6	0	0.000000	1.364881	-0.624177	15	6	0	0.000000	-1.368541	-0.610232	
16	1	0	0.000000	-2.482354	1.845494	16	1	0	0.000000	2.483899	1.852625	
17	1	0	0.000000	-1.242425	6.435404	17	1	0	0.000000	1.243316	6.435890	
18	1	0	0.000000	-2.483136	4.315466	18	1	0	0.000000	2.485026	4.318999	
19	1	0	0.000000	2.483136	4.315466	19	1	0	0.000000	-2.485026	4.318999	
20	1	0	0.000000	1.242425	6.435404	20	1	0	0.000000	-1.243316	6.435890	
21	1	0	0.000000	2.482354	1.845494	21	1	0	0.000000	-2.483899	1.852625	
22	1	0	0.000000	2.448921	-0.609808	22	1	0	0.000000	-2.452348	-0.594892	
23	6	0	0.000000	1.675778	-2.964502	23	6	0	0.000000	-1.659632	-2.939535	
24	1	0	0.000000	2.689418	-2.576483	24	1	0	0.000000	-2.678729	-2.568238	
25	6	0	0.000000	-1.675778	-2.964502	25	6	0	0.000000	1.659632	-2.939535	
26	1	0	0.000000	-2.689418	-2.576483	26	1	0	0.000000	2.678729	-2.568238	
27	6	0	0.000000	-1.666048	-4.307792	27	6	0	0.000000	1.656202	-4.353552	
28	1	0	0.000000	-2.669958	-4.723076	28	1	0	0.000000	2.671184	-4.740777	

29	6	0	0.000000	1.666048	-4.307792	29	6	0	0.000000	-1.656202	-4.353552
30	1	0	0.000000	2.669958	-4.723076	30	1	0	0.000000	-2.671184	-4.740777
31	6	0	0.000000	0.670074	-5.358597	31	6	0	0.000000	-0.720118	-5.342612
32	1	0	0.000000	1.118755	-6.347423	32	1	0	0.000000	-1.139132	-6.343800
33	6	0	0.000000	-0.670074	-5.358597	33	6	0	0.000000	0.720118	-5.342612
34	1	0	0.000000	-1.118755	-6.347423	34	1	0	0.000000	1.139132	-6.343800

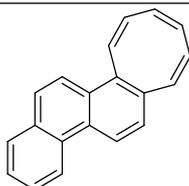


S_0						T_1					
E = -770.2198264 a.u.						E = -770.1980943 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	3.384821	4.046827	0.000000	1	6	0	2.961726	4.377125	0.000000
2	6	0	2.027417	4.020722	0.000000	2	6	0	1.609583	4.204442	0.000000
3	6	0	1.323745	2.778149	0.000000	3	6	0	1.048217	2.899534	0.000000
4	6	0	2.065928	1.560108	0.000000	4	6	0	1.911173	1.772890	0.000000
5	6	0	3.493574	1.632847	0.000000	5	6	0	3.316599	1.990190	0.000000
6	6	0	4.130194	2.832069	0.000000	6	6	0	3.827085	3.254120	0.000000
7	6	0	-0.060064	2.690818	0.000000	7	6	0	-0.329518	2.658194	0.000000
8	6	0	1.399118	0.337101	0.000000	8	6	0	1.365468	0.478367	0.000000
9	6	0	0.000000	0.221375	0.000000	9	6	0	0.000000	0.221490	0.000000
10	6	0	-0.722047	1.464946	0.000000	10	6	0	-0.850307	1.378892	0.000000
11	6	0	-2.135733	1.428265	0.000000	11	6	0	-2.268187	1.192967	0.000000
12	1	0	-2.690171	2.359431	0.000000	12	1	0	-2.909232	2.066660	0.000000
13	6	0	-2.779348	0.241200	0.000000	13	6	0	-2.796102	-0.042793	0.000000
14	6	0	-2.110414	-1.024735	0.000000	14	6	0	-2.023567	-1.259162	0.000000
15	6	0	-0.726073	-1.051909	0.000000	15	6	0	-0.589729	-1.149178	0.000000
16	1	0	-0.653216	3.599289	0.000000	16	1	0	-1.014750	3.499436	0.000000
17	1	0	3.912366	4.993076	0.000000	17	1	0	3.383287	5.375089	0.000000
18	1	0	1.455455	4.941810	0.000000	18	1	0	0.943526	5.059997	0.000000
19	1	0	4.060222	0.708306	0.000000	19	1	0	3.977966	1.130762	0.000000
20	1	0	5.212727	2.873988	0.000000	20	1	0	4.899475	3.407526	0.000000
21	1	0	2.041120	-0.528836	0.000000	21	1	0	2.093885	-0.317816	0.000000
22	1	0	-3.861731	0.239315	0.000000	22	1	0	-3.873960	-0.144884	0.000000
23	6	0	0.154131	-2.247005	0.000000	23	6	0	0.351306	-2.197539	0.000000
24	1	0	1.187877	-1.953845	0.000000	24	1	0	1.360564	-1.824959	0.000000
25	6	0	0.085349	-3.585813	0.000000	25	6	0	0.421554	-3.600319	0.000000
26	1	0	1.072785	-4.039382	0.000000	26	1	0	1.456894	-3.928774	0.000000
27	6	0	-3.122394	-2.119840	0.000000	27	6	0	-2.882894	-2.396330	0.000000
28	1	0	-4.111275	-1.674939	0.000000	28	1	0	-3.917565	-2.071636	0.000000
29	6	0	-3.207535	-3.454421	0.000000	29	6	0	-2.837597	-3.787352	0.000000
30	1	0	-4.236659	-3.802198	0.000000	30	1	0	-3.835742	-4.215034	0.000000
31	6	0	-0.943060	-4.622504	0.000000	31	6	0	-0.453026	-4.673575	0.000000
32	1	0	-0.518226	-5.621569	0.000000	32	1	0	0.046169	-5.637356	0.000000
33	6	0	-2.273794	-4.574339	0.000000	33	6	0	-1.845683	-4.759248	0.000000
34	1	0	-2.774166	-5.537618	0.000000	34	1	0	-2.227124	-5.775297	0.000000



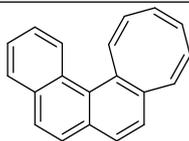
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			X	Y	Z				X	Y	Z
1	6	0	-2.621176	-2.415160	0.000000	1	6	0	-2.652805	-2.374743	0.000000
2	6	0	-1.280771	-2.585402	0.000000	2	6	0	-1.319726	-2.567919	0.000000
3	6	0	-0.405218	-1.456210	0.000000	3	6	0	-0.416222	-1.453392	0.000000

4	6	0	-0.928831	-0.158107	0.000000	4	6	0	-0.925675	-0.130616	0.000000
5	6	0	-2.364787	0.034286	0.000000	5	6	0	-2.368728	0.077891	0.000000
6	6	0	-3.201888	-1.106404	0.000000	6	6	0	-3.218255	-1.050821	0.000000
7	1	0	1.372677	-2.628767	0.000000	7	1	0	1.322240	-2.658609	0.000000
8	1	0	-3.285681	-3.271753	0.000000	8	1	0	-3.332027	-3.219735	0.000000
9	1	0	-0.848869	-3.579660	0.000000	9	1	0	-0.905288	-3.569654	0.000000
10	6	0	0.994364	-1.612810	0.000000	10	6	0	0.959484	-1.637033	0.000000
11	6	0	0.000000	0.901140	0.000000	11	6	0	0.000000	0.901673	0.000000
12	6	0	1.375462	0.755790	0.000000	12	6	0	1.401195	0.746877	0.000000
13	6	0	1.904634	-0.575490	0.000000	13	6	0	1.913769	-0.606876	0.000000
14	1	0	-0.383453	1.911691	0.000000	14	1	0	-0.365818	1.918830	0.000000
15	6	0	2.072497	2.059705	0.000000	15	6	0	2.087841	1.999290	0.000000
16	1	0	1.337193	2.857909	0.000000	16	1	0	1.379271	2.820538	0.000000
17	6	0	3.302900	-1.055853	0.000000	17	6	0	3.256883	-1.100064	0.000000
18	1	0	3.306327	-2.141177	0.000000	18	1	0	3.259983	-2.184848	0.000000
19	6	0	3.322077	2.544735	0.000000	19	6	0	3.405749	2.494001	0.000000
20	1	0	3.341043	3.630849	0.000000	20	1	0	3.412760	3.580228	0.000000
21	6	0	4.547716	-0.559376	0.000000	21	6	0	4.572375	-0.606343	0.000000
22	1	0	5.302504	-1.340571	0.000000	22	1	0	5.293782	-1.418431	0.000000
23	6	0	4.670486	2.001922	0.000000	23	6	0	4.667052	1.963270	0.000000
24	6	0	5.161924	0.758085	0.000000	24	6	0	5.170965	0.625891	0.000000
25	1	0	6.246255	0.702691	0.000000	25	1	0	6.255529	0.583903	0.000000
26	1	0	5.424306	2.783327	0.000000	26	1	0	5.454483	2.710261	0.000000
27	6	0	-2.974042	1.305663	0.000000	27	6	0	-2.960412	1.352910	0.000000
28	1	0	-2.363706	2.198494	0.000000	28	1	0	-2.339215	2.238438	0.000000
29	6	0	-4.601413	-0.942317	0.000000	29	6	0	-4.611913	-0.871827	0.000000
30	1	0	-5.228480	-1.826907	0.000000	30	1	0	-5.249480	-1.748959	0.000000
31	6	0	-5.166007	0.307026	0.000000	31	6	0	-5.164969	0.386446	0.000000
32	1	0	-6.243231	0.420566	0.000000	32	1	0	-6.241004	0.510871	0.000000
33	6	0	-4.340304	1.441008	0.000000	33	6	0	-4.328056	1.507210	0.000000
34	1	0	-4.782620	2.429913	0.000000	34	1	0	-4.756527	2.502223	0.000000

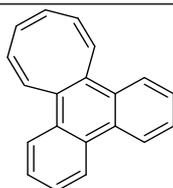


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1	6	0	-2.695148	1.553421	0.000000	1	6	0	-2.657679	1.626346	0.000000
2	6	0	-2.493490	0.161664	0.000000	2	6	0	-2.478208	0.227911	0.000000
3	6	0	-1.133617	-0.364364	0.000000	3	6	0	-1.135779	-0.317622	0.000000
4	6	0	0.000000	0.497919	0.000000	4	6	0	0.000000	0.514633	0.000000
5	6	0	-0.292291	1.915242	0.000000	5	6	0	-0.253303	1.929180	0.000000
6	6	0	-1.548717	2.403819	0.000000	6	6	0	-1.501392	2.451558	0.000000
7	1	0	-1.729113	-2.438545	0.000000	7	1	0	-1.782052	-2.394025	0.000000
8	6	0	-0.906436	-1.739070	0.000000	8	6	0	-0.938400	-1.720589	0.000000
9	6	0	1.342856	-0.030160	0.000000	9	6	0	1.365821	-0.044872	0.000000
10	1	0	0.496449	2.647322	0.000000	10	1	0	0.554262	2.641543	0.000000
11	1	0	-1.704154	3.476998	0.000000	11	1	0	-1.631359	3.528011	0.000000
12	6	0	1.517531	-1.421551	0.000000	12	6	0	1.504713	-1.472753	0.000000
13	6	0	0.368641	-2.231291	0.000000	13	6	0	0.307181	-2.246378	0.000000
14	1	0	0.498685	-3.305987	0.000000	14	1	0	0.407827	-3.324371	0.000000
15	6	0	2.416004	0.994675	0.000000	15	6	0	2.411640	0.911972	0.000000
16	1	0	1.996904	1.982872	0.000000	16	1	0	2.034144	1.917509	0.000000
17	6	0	3.753909	1.100555	0.000000	17	6	0	3.818485	0.994160	0.000000
18	1	0	4.070669	2.140082	0.000000	18	1	0	4.133949	2.033721	0.000000
19	6	0	2.741068	-2.271550	0.000000	19	6	0	2.656405	-2.323689	0.000000
20	1	0	2.433041	-3.311407	0.000000	20	1	0	2.340302	-3.360881	0.000000
21	6	0	4.075438	-2.176404	0.000000	21	6	0	4.051415	-2.264315	0.000000
22	1	0	4.558290	-3.149445	0.000000	22	1	0	4.488086	-3.258704	0.000000
23	6	0	5.055928	-1.100529	0.000000	23	6	0	5.003307	-1.267192	0.000000
24	1	0	6.079093	-1.463018	0.000000	24	1	0	6.026127	-1.629807	0.000000

25	6	0	4.919978	0.225109	0.000000	25	6	0	4.895282	0.138535	0.000000
26	1	0	5.851243	0.783066	0.000000	26	1	0	5.854076	0.647290	0.000000
27	6	0	-3.635292	-0.665089	0.000000	27	6	0	-3.638883	-0.579599	0.000000
28	1	0	-3.532698	-1.740754	0.000000	28	1	0	-3.556411	-1.656787	0.000000
29	6	0	-3.998533	2.083309	0.000000	29	6	0	-3.955166	2.177989	0.000000
30	1	0	-4.123312	3.160393	0.000000	30	1	0	-4.061644	3.257055	0.000000
31	6	0	-5.091883	1.255100	0.000000	31	6	0	-5.059760	1.369006	0.000000
32	1	0	-6.093435	1.667512	0.000000	32	1	0	-6.054737	1.797161	0.000000
33	6	0	-4.902734	-0.133249	0.000000	33	6	0	-4.893766	-0.025446	0.000000
34	1	0	-5.760931	-0.794433	0.000000	34	1	0	-5.764040	-0.670727	0.000000

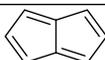


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1	6	0	-3.037498	1.716657	0.162123	1	6	0	3.230126	1.465178	0.283028
2	6	0	-1.952262	2.505005	0.256254	2	6	0	2.230347	2.375250	0.256603
3	6	0	-0.630683	1.966474	0.134071	3	6	0	0.870810	1.969835	0.131234
4	6	0	-0.421570	0.584163	-0.088763	4	6	0	0.527228	0.611327	0.084055
5	6	0	-1.601641	-0.285782	-0.040900	5	6	0	1.605525	-0.348704	-0.075927
6	6	0	-2.892805	0.299807	0.030746	6	6	0	2.949263	0.083494	0.075524
7	1	0	0.273239	3.901907	0.370850	7	1	0	0.110692	3.997305	0.089209
8	1	0	-4.036858	2.132069	0.223014	8	1	0	4.261442	1.774810	0.407323
9	1	0	-2.053449	3.574633	0.400396	9	1	0	2.443040	3.434426	0.346721
10	6	0	0.460504	2.849847	0.188660	10	6	0	-0.156813	2.947818	0.053173
11	6	0	0.915969	0.139195	-0.359855	11	6	0	-0.872977	0.218936	0.197728
12	6	0	1.975016	1.039033	-0.291778	12	6	0	-1.867239	1.204351	-0.128375
13	6	0	1.730466	2.395160	-0.003938	13	6	0	-1.441625	2.569942	-0.142820
14	1	0	2.568565	3.081444	0.032829	14	1	0	-2.200167	3.327808	-0.297674
15	6	0	1.167983	-1.218280	-0.909087	15	6	0	-1.097371	-1.024142	0.847996
16	1	0	0.587846	-1.455722	-1.797564	16	1	0	-0.203004	-1.363065	1.355354
17	6	0	1.969109	-2.164888	-0.428980	17	6	0	-2.145804	-1.930355	1.044296
18	1	0	1.988660	-3.120571	-0.949169	18	1	0	-1.855378	-2.735877	1.712660
19	6	0	3.395048	0.719886	-0.578928	19	6	0	-3.233672	1.048685	-0.478491
20	1	0	3.875787	1.416330	-1.261415	20	1	0	-3.674649	2.005367	-0.740724
21	6	0	4.176222	-0.184181	0.009780	21	6	0	-4.137754	0.003549	-0.705623
22	1	0	5.237312	-0.158225	-0.227700	22	1	0	-5.022352	0.344212	-1.236408
23	6	0	3.774472	-1.206549	0.978657	23	6	0	-4.207483	-1.325493	-0.343060
24	1	0	4.387073	-1.296210	1.871777	24	1	0	-5.106118	-1.828981	-0.685615
25	6	0	2.795102	-2.088324	0.782618	25	6	0	-3.403503	-2.115205	0.503931
26	1	0	2.641867	-2.870019	1.522780	26	1	0	-3.866380	-3.055839	0.786282
27	6	0	-1.548518	-1.696282	0.003489	27	6	0	1.403238	-1.689417	-0.484684
28	1	0	-0.595654	-2.192992	0.047259	28	1	0	0.404651	-2.028132	-0.718977
29	6	0	-4.043231	-0.511334	0.036097	29	6	0	4.005753	-0.843125	-0.049791
30	1	0	-5.012932	-0.027464	0.072453	30	1	0	5.020687	-0.491062	0.097548
31	6	0	-3.951279	-1.879135	0.022088	31	6	0	3.766677	-2.149563	-0.382374
32	1	0	-4.844573	-2.491894	0.032185	32	1	0	4.587364	-2.849016	-0.485881
33	6	0	-2.684704	-2.471036	0.029872	33	6	0	2.449384	-2.564496	-0.631664
34	1	0	-2.591088	-3.549890	0.068953	34	1	0	2.255515	-3.579144	-0.958361

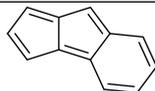


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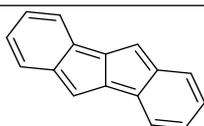
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			X	Y	Z				X	Y	Z
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2	6	0	0.000000	-2.841058	-0.601861	2	6	0	0.000000	2.849298	-0.607449
3	6	0	0.000000	-1.420562	-0.512219	3	6	0	0.000000	1.435679	-0.510512
4	6	0	0.000000	-0.722463	-1.741882	4	6	0	0.000000	0.730316	-1.731176
5	6	0	0.000000	-1.440705	-2.957069	5	6	0	0.000000	1.438053	-2.946433
6	6	0	0.000000	-2.807440	-2.997819	6	6	0	0.000000	2.809217	-2.999749
7	6	0	0.000000	-0.688803	0.764583	7	6	0	0.000000	0.716079	0.792576
8	6	0	0.000000	0.722463	-1.741882	8	6	0	0.000000	-0.730316	-1.731176
9	6	0	0.000000	1.420562	-0.512219	9	6	0	0.000000	-1.435679	-0.510512
10	6	0	0.000000	0.688803	0.764583	10	6	0	0.000000	-0.716079	0.792576
11	6	0	0.000000	2.841058	-0.601861	11	6	0	0.000000	-2.849298	-0.607449
12	1	0	0.000000	3.465544	0.273816	12	1	0	0.000000	-3.476799	0.267182
13	6	0	0.000000	3.514249	-1.794964	13	6	0	0.000000	-3.521390	-1.805638
14	6	0	0.000000	2.807440	-2.997819	14	6	0	0.000000	-2.809217	-2.999749
15	6	0	0.000000	1.440705	-2.957069	15	6	0	0.000000	-1.438053	-2.946433
16	1	0	0.000000	-4.597481	-1.794565	16	1	0	0.000000	4.604645	-1.808346
17	1	0	0.000000	-3.465544	0.273816	17	1	0	0.000000	3.476799	0.267182
18	1	0	0.000000	-0.908824	-3.895156	18	1	0	0.000000	0.901903	-3.882020
19	1	0	0.000000	-3.328251	-3.947394	19	1	0	0.000000	3.320542	-3.954478
20	1	0	0.000000	4.597481	-1.794565	20	1	0	0.000000	-4.604645	-1.808346
21	1	0	0.000000	3.328251	-3.947394	21	1	0	0.000000	-3.320542	-3.954478
22	1	0	0.000000	0.908824	-3.895156	22	1	0	0.000000	-0.901903	-3.882020
23	6	0	0.000000	1.597030	1.947235	23	6	0	0.000000	-1.580260	1.917740
24	1	0	0.000000	2.615019	1.615637	24	1	0	0.000000	-2.605616	1.605724
25	6	0	0.000000	-1.597030	1.947235	25	6	0	0.000000	1.580260	1.917740
26	1	0	0.000000	-2.615019	1.615637	26	1	0	0.000000	2.605616	1.605724
27	6	0	0.000000	-1.616097	3.288317	27	6	0	0.000000	1.604400	3.319167
28	1	0	0.000000	-2.633295	3.671139	28	1	0	0.000000	2.629223	3.679656
29	6	0	0.000000	1.616097	3.288317	29	6	0	0.000000	-1.604400	3.319167
30	1	0	0.000000	2.633295	3.671139	30	1	0	0.000000	-2.629223	3.679656
31	6	0	0.000000	0.664331	4.390882	31	6	0	0.000000	-0.697034	4.362275
32	1	0	0.000000	1.142176	5.365307	32	1	0	0.000000	-1.152019	5.347479
33	6	0	0.000000	-0.664331	4.390882	33	6	0	0.000000	0.697034	4.362275
34	1	0	0.000000	-1.142176	5.365307	34	1	0	0.000000	1.152019	5.347479



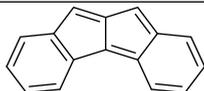
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			X	Y	Z				X	Y	Z
1	6	0	-1.159601	1.411035	0.000000	1	6	0	0.000000	1.165975	1.332621
2	6	0	-0.729054	0.002262	0.000000	2	6	0	0.000000	0.739459	0.000000
3	6	0	0.729054	-0.002262	0.000000	3	6	0	0.000000	-0.739459	0.000000
4	6	0	1.159601	1.269922	0.000000	4	6	0	0.000000	-1.165975	1.332621
5	1	0	0.005202	3.239587	0.000000	5	1	0	0.000000	0.000000	3.216082
6	1	0	-2.177796	1.770723	0.000000	6	1	0	0.000000	2.180886	1.700715
7	1	0	2.180930	1.627595	0.000000	7	1	0	0.000000	-2.180886	1.700715
8	6	0	-0.042239	2.159740	0.000000	8	6	0	0.000000	0.000000	2.133853
9	6	0	1.159601	-1.411035	0.000000	9	6	0	0.000000	-1.165975	-1.332621
10	1	0	2.177796	-1.770723	0.000000	10	1	0	0.000000	-2.180886	-1.700715
11	6	0	-1.159601	-1.269922	0.000000	11	6	0	0.000000	1.165975	-1.332621
12	1	0	-2.180930	-1.627595	0.000000	12	1	0	0.000000	2.180886	-1.700715
13	6	0	0.042239	-2.159740	0.000000	13	6	0	0.000000	0.000000	-2.133853
14	1	0	-0.005202	-3.239587	0.000000	14	1	0	0.000000	0.000000	-3.216082



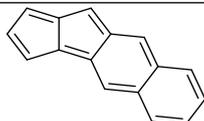
S ₀							T ₁						
E = -461.8764742 a.u.							E = -461.8451169 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	0.000000	0.710687	0.000000	1	6	0	0.000000	0.665390	0.000000		
2	6	0	1.101116	-0.262467	0.000000	2	6	0	1.067450	-0.278888	0.000000		
3	6	0	0.496668	-1.598774	0.000000	3	6	0	0.490285	-1.617786	0.000000		
4	6	0	-0.842970	-1.491827	0.000000	4	6	0	-0.905512	-1.507576	0.000000		
5	1	0	-1.570854	-2.293067	0.000000	5	1	0	-1.632271	-2.306502	0.000000		
6	6	0	-1.196368	-0.050674	0.000000	6	6	0	-1.218179	-0.094362	0.000000		
7	6	0	1.591469	-2.569575	0.000000	7	6	0	1.545468	-2.522229	0.000000		
8	1	0	1.496809	-3.644820	0.000000	8	1	0	1.495525	-3.601167	0.000000		
9	6	0	2.438096	-0.402819	0.000000	9	6	0	2.491476	-0.397494	0.000000		
10	1	0	3.191054	0.373291	0.000000	10	1	0	3.211465	0.406742	0.000000		
11	6	0	2.737564	-1.857977	0.000000	11	6	0	2.777238	-1.739967	0.000000		
12	1	0	3.738283	-2.267583	0.000000	12	1	0	3.769811	-2.169260	0.000000		
13	6	0	-2.424658	0.569721	0.000000	13	6	0	-2.438851	0.569561	0.000000		
14	1	0	-3.341798	-0.008181	0.000000	14	1	0	-3.369823	0.014758	0.000000		
15	6	0	-0.052304	2.084542	0.000000	15	6	0	-0.035107	2.058104	0.000000		
16	1	0	0.854352	2.677895	0.000000	16	1	0	0.884116	2.632027	0.000000		
17	6	0	-2.471954	1.971036	0.000000	17	6	0	-2.451262	1.959590	0.000000		
18	1	0	-3.431046	2.474419	0.000000	18	1	0	-3.400338	2.482640	0.000000		
19	6	0	-1.306254	2.713534	0.000000	19	6	0	-1.264540	2.698954	0.000000		
20	1	0	-1.359223	3.795604	0.000000	20	1	0	-1.309274	3.780979	0.000000		



S ₀							T ₁						
E = -615.4877752 a.u.							E = -615.4313994 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	1.189813	3.348104	0.000000	1	6	0	3.573763	-0.197415	0.000000		
2	6	0	0.773962	2.031954	0.000000	2	6	0	2.157373	-0.028685	0.000000		
3	6	0	-0.607224	1.716768	0.000000	3	6	0	1.300627	-1.213143	0.000000		
4	6	0	-1.554168	2.718381	0.000000	4	6	0	1.875026	-2.485439	0.000000		
5	6	0	-1.126598	4.049435	0.000000	5	6	0	3.248067	-2.604110	0.000000		
6	6	0	0.224473	4.358917	0.000000	6	6	0	4.092913	-1.456772	0.000000		
7	1	0	2.244477	3.598673	0.000000	7	1	0	4.220396	0.672171	0.000000		
8	1	0	-2.612424	2.484773	0.000000	8	1	0	1.248358	-3.369326	0.000000		
9	1	0	-1.859526	4.847149	0.000000	9	1	0	3.702544	-3.587518	0.000000		
10	1	0	0.536310	5.396480	0.000000	10	1	0	5.166807	-1.599767	0.000000		
11	6	0	-0.689872	0.254095	0.000000	11	6	0	-0.051797	-0.752811	0.000000		
12	6	0	1.554168	0.775270	0.000000	12	6	0	1.387192	1.122618	0.000000		
13	1	0	2.635297	0.733533	0.000000	13	1	0	1.754563	2.137916	0.000000		
14	6	0	0.689872	-0.254095	0.000000	14	6	0	0.000000	0.694601	0.000000		
15	6	0	0.607224	-1.716768	0.000000	15	6	0	-1.321840	1.190552	0.000000		
16	6	0	-1.554168	-0.775270	0.000000	16	6	0	-1.367153	-1.165596	0.000000		
17	1	0	-2.635297	-0.733533	0.000000	17	1	0	-1.751031	-2.174981	0.000000		
18	6	0	-0.773962	-2.031954	0.000000	18	6	0	-2.183633	0.038111	0.000000		
19	6	0	1.554168	-2.718381	0.000000	19	6	0	-1.860479	2.482130	0.000000		
20	1	0	2.612424	-2.484773	0.000000	20	1	0	-1.209878	3.349078	0.000000		
21	6	0	-1.189813	-3.348104	0.000000	21	6	0	-3.557496	0.217225	0.000000		
22	1	0	-2.244477	-3.598673	0.000000	22	1	0	-4.228091	-0.634351	0.000000		
23	6	0	-0.224473	-4.358917	0.000000	23	6	0	-4.071767	1.511895	0.000000		
24	1	0	-0.536310	-5.396480	0.000000	24	1	0	-5.146163	1.654651	0.000000		
25	6	0	1.126598	-4.049435	0.000000	25	6	0	-3.235189	2.634563	0.000000		
26	1	0	1.859526	-4.847149	0.000000	26	1	0	-3.671151	3.625781	0.000000		

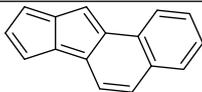


S ₀							T ₁						
E = -615.4498031 a.u.							E = -615.452597 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	-3.616605	-0.126571	0.000000	1	6	0	0.000000	3.558748	0.715694		
2	6	0	-2.298198	0.265386	0.000000	2	6	0	0.000000	2.179679	0.834567		
3	6	0	-1.247856	-0.693208	0.000000	3	6	0	0.000000	1.362900	-0.340439		
4	6	0	-1.547771	-2.036123	0.000000	4	6	0	0.000000	1.945137	-1.598884		
5	6	0	-2.895045	-2.430978	0.000000	5	6	0	0.000000	3.335399	-1.699668		
6	6	0	-3.913586	-1.497441	0.000000	6	6	0	0.000000	4.129125	-0.558246		
7	1	0	-4.415332	0.606626	0.000000	7	1	0	0.000000	4.190213	1.596680		
8	1	0	-0.764993	-2.784912	0.000000	8	1	0	0.000000	1.334407	-2.493675		
9	1	0	-3.137580	-3.487117	0.000000	9	1	0	0.000000	3.802516	-2.676856		
10	1	0	-4.946064	-1.824262	0.000000	10	1	0	0.000000	5.207864	-0.659381		
11	6	0	0.000000	0.073284	0.000000	11	6	0	0.000000	0.000000	0.113855		
12	6	0	-1.699165	1.615647	0.000000	12	6	0	0.000000	1.325087	2.010468		
13	1	0	-2.272052	2.534543	0.000000	13	1	0	0.000000	1.673721	3.033067		
14	6	0	-0.354581	1.484727	0.000000	14	6	0	0.000000	0.000000	1.559215		
15	6	0	0.870827	2.271367	0.000000	15	6	0	0.000000	-1.325087	2.010468		
16	6	0	1.358368	-0.015563	0.000000	16	6	0	0.000000	-1.362900	-0.340439		
17	6	0	1.897853	1.375307	0.000000	17	6	0	0.000000	-2.179679	0.834567		
18	6	0	3.322660	1.567753	0.000000	18	6	0	0.000000	-3.558748	0.715694		
19	1	0	3.726391	2.573683	0.000000	19	1	0	0.000000	-4.190213	1.596680		
20	6	0	2.282133	-1.114405	0.000000	20	6	0	0.000000	-1.945137	-1.598884		
21	1	0	1.912842	-2.132648	0.000000	21	1	0	0.000000	-1.334407	-2.493675		
22	6	0	4.135991	0.491323	0.000000	22	6	0	0.000000	-4.129125	-0.558246		
23	1	0	5.211445	0.621646	0.000000	23	1	0	0.000000	-5.207864	-0.659381		
24	6	0	3.608607	-0.859456	0.000000	24	6	0	0.000000	-3.335399	-1.699668		
25	1	0	4.314250	-1.682150	0.000000	25	1	0	0.000000	-3.802516	-2.676856		
26	1	0	0.949309	3.348304	0.000000	26	1	0	0.000000	-1.673721	3.033067		

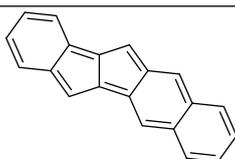


S ₀							T ₁						
E = -615.4703749 a.u.							E = -615.4354585 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	0.000000	0.786940	0.000000	1	6	0	0.000000	0.785148	0.000000		
2	6	0	1.256748	0.281029	0.000000	2	6	0	1.240878	0.198379	0.000000		
3	6	0	1.454012	-1.136923	0.000000	3	6	0	1.354680	-1.214809	0.000000		
4	6	0	0.328847	-2.002558	0.000000	4	6	0	0.174342	-2.014655	0.000000		
5	6	0	-0.987586	-1.442840	0.000000	5	6	0	-1.106506	-1.394217	0.000000		
6	6	0	-1.143692	-0.096107	0.000000	6	6	0	-1.209787	-0.031678	0.000000		
7	1	0	3.604026	-1.039792	0.000000	7	1	0	3.509943	-1.240265	0.000000		
8	1	0	2.125830	0.929679	0.000000	8	1	0	2.142646	0.800972	0.000000		
9	6	0	2.745028	-1.701780	0.000000	9	6	0	2.616158	-1.854457	0.000000		
10	6	0	0.539553	-3.395877	0.000000	10	6	0	0.313049	-3.420631	0.000000		
11	1	0	-1.843053	-2.109975	0.000000	11	1	0	-1.991529	-2.021261	0.000000		
12	6	0	1.808498	-3.919076	0.000000	12	6	0	1.549764	-4.010454	0.000000		
13	6	0	2.921995	-3.063063	0.000000	13	6	0	2.715961	-3.219626	0.000000		
14	1	0	-0.322483	-4.054046	0.000000	14	1	0	-0.582791	-4.031525	0.000000		
15	1	0	1.953752	-4.992580	0.000000	15	1	0	1.634505	-5.090554	0.000000		
16	1	0	3.921846	-3.480149	0.000000	16	1	0	3.689027	-3.695305	0.000000		
17	6	0	-2.367418	0.728975	0.000000	17	6	0	-2.360288	0.842059	0.000000		
18	1	0	-3.370110	0.320997	0.000000	18	1	0	-3.389996	0.516605	0.000000		
19	6	0	-0.545994	2.145298	0.000000	19	6	0	-0.431027	2.140779	0.000000		
20	6	0	-2.010499	2.026469	0.000000	20	6	0	-1.876737	2.160398	0.000000		
21	6	0	-0.228875	3.454129	0.000000	21	6	0	0.047796	3.502767	0.000000		

22	1	0	0.754631	3.902866	0.000000	22	1	0	1.077628	3.826584	0.000000
23	6	0	-2.554925	3.378605	0.000000	23	6	0	-2.270644	3.498073	0.000000
24	1	0	-3.598962	3.652289	0.000000	24	1	0	-3.277109	3.891133	0.000000
25	6	0	-1.495443	4.218714	0.000000	25	6	0	-1.052689	4.308593	0.000000
26	1	0	-1.546970	5.299107	0.000000	26	1	0	-1.042019	5.389604	0.000000

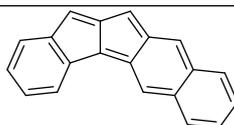


S_0						T_1					
E = -615.4622611 a.u.						E = -615.4364122 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	0.928987	-0.665347	0.000000	1	6	0	0.953433	-0.629234	0.000000
2	6	0	2.258385	-0.036815	0.000000	2	6	0	2.237260	-0.026747	0.000000
3	6	0	2.047420	1.411001	0.000000	3	6	0	2.050704	1.429631	0.000000
4	6	0	0.728430	1.670007	0.000000	4	6	0	0.677133	1.697576	0.000000
5	1	0	0.253513	2.641857	0.000000	5	1	0	0.203636	2.667514	0.000000
6	6	0	0.000000	0.373211	0.000000	6	6	0	0.000000	0.429987	0.000000
7	6	0	3.370158	2.043300	0.000000	7	6	0	3.309968	2.012207	0.000000
8	1	0	3.575586	3.103131	0.000000	8	1	0	3.555836	3.063610	0.000000
9	6	0	3.581340	-0.272289	0.000000	9	6	0	3.622884	-0.297453	0.000000
10	1	0	4.089914	-1.226920	0.000000	10	1	0	4.103197	-1.264144	0.000000
11	6	0	4.275326	1.045099	0.000000	11	6	0	4.268469	0.931364	0.000000
12	1	0	5.350297	1.160678	0.000000	12	1	0	5.341599	1.068488	0.000000
13	6	0	-1.383355	0.113689	0.000000	13	6	0	-1.393325	0.133354	0.000000
14	6	0	0.515735	-1.999719	0.000000	14	6	0	0.537327	-1.979188	0.000000
15	1	0	1.244211	-2.801770	0.000000	15	1	0	1.274467	-2.773271	0.000000
16	6	0	-1.799256	-1.252850	0.000000	16	6	0	-1.783770	-1.233665	0.000000
17	6	0	-0.830596	-2.280716	0.000000	17	6	0	-0.793453	-2.267566	0.000000
18	1	0	-1.170725	-3.310242	0.000000	18	1	0	-1.131163	-3.297456	0.000000
19	6	0	-3.188613	-1.542257	0.000000	19	6	0	-3.158525	-1.544230	0.000000
20	1	0	-3.501758	-2.580568	0.000000	20	1	0	-3.457813	-2.586409	0.000000
21	6	0	-2.376219	1.129528	0.000000	21	6	0	-2.391379	1.131453	0.000000
22	1	0	-2.070760	2.168832	0.000000	22	1	0	-2.097009	2.173725	0.000000
23	6	0	-3.702790	0.810879	0.000000	23	6	0	-3.721041	0.797420	0.000000
24	1	0	-4.448302	1.597159	0.000000	24	1	0	-4.476001	1.574198	0.000000
25	6	0	-4.116374	-0.542218	0.000000	25	6	0	-4.108376	-0.553962	0.000000
26	1	0	-5.173444	-0.779175	0.000000	26	1	0	-5.160606	-0.811939	0.000000

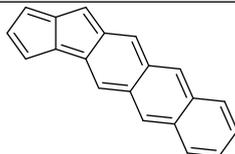


S_0						T_1					
E = -769.0801521 a.u.						E = -769.0233179 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z				X	Y	Z
1	6	0	0.000000	0.672227	0.000000	1	6	0	0.000000	0.622600	0.000000
2	6	0	0.042996	2.028557	0.000000	2	6	0	0.135768	1.987908	0.000000
3	6	0	-1.172962	2.776573	0.000000	3	6	0	-1.020558	2.814123	0.000000
4	6	0	-2.417914	2.091690	0.000000	4	6	0	-2.311391	2.211542	0.000000
5	6	0	-2.436178	0.664742	0.000000	5	6	0	-2.434306	0.788463	0.000000
6	6	0	-1.264639	-0.023620	0.000000	6	6	0	-1.320633	0.002912	0.000000
7	1	0	-0.220309	4.708192	0.000000	7	1	0	0.062595	4.675694	0.000000
8	1	0	0.986816	2.562831	0.000000	8	1	0	1.115835	2.452788	0.000000
9	6	0	-1.171687	4.187644	0.000000	9	6	0	-0.922628	4.222312	0.000000
10	6	0	-3.610058	2.847021	0.000000	10	6	0	-3.445524	3.047907	0.000000
11	1	0	-3.391445	0.150755	0.000000	11	1	0	-3.427555	0.352094	0.000000
12	6	0	-3.578217	4.217660	0.000000	12	6	0	-3.319451	4.415289	0.000000
13	6	0	-2.345927	4.895449	0.000000	13	6	0	-2.045476	5.009883	0.000000

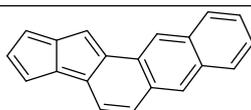
14	1	0	-4.559439	2.322861	0.000000	14	1	0	-4.429484	2.592133	0.000000
15	1	0	-4.502880	4.782149	0.000000	15	1	0	-4.204354	5.040351	0.000000
16	1	0	-2.327298	5.978598	0.000000	16	1	0	-1.953848	6.089137	0.000000
17	6	0	-1.000709	-1.473252	0.000000	17	6	0	-1.147797	-1.435139	0.000000
18	1	0	-1.775147	-2.228738	0.000000	18	1	0	-1.949532	-2.158543	0.000000
19	6	0	1.028110	-0.367269	0.000000	19	6	0	0.932994	-0.449375	0.000000
20	6	0	0.330852	-1.662664	0.000000	20	6	0	0.224951	-1.676057	0.000000
21	6	0	2.358618	-0.565890	0.000000	21	6	0	2.376955	-0.721581	0.000000
22	1	0	3.140334	0.181630	0.000000	22	1	0	3.174737	0.006155	0.000000
23	6	0	1.359637	-2.701001	0.000000	23	6	0	1.207335	-2.734491	0.000000
24	6	0	2.603376	-2.021592	0.000000	24	6	0	2.516539	-2.102423	0.000000
25	6	0	1.312252	-4.079974	0.000000	25	6	0	1.107823	-4.118029	0.000000
26	1	0	0.363971	-4.604764	0.000000	26	1	0	0.138103	-4.601536	0.000000
27	6	0	3.786521	-2.735730	0.000000	27	6	0	3.681965	-2.914920	0.000000
28	1	0	4.743534	-2.226661	0.000000	28	1	0	4.662812	-2.453849	0.000000
29	6	0	2.512016	-4.794404	0.000000	29	6	0	2.267734	-4.880296	0.000000
30	1	0	2.490784	-5.877420	0.000000	30	1	0	2.195709	-5.961350	0.000000
31	6	0	3.730588	-4.130693	0.000000	31	6	0	3.547049	-4.277879	0.000000
32	1	0	4.651034	-4.702276	0.000000	32	1	0	4.426890	-4.909586	0.000000



S_0							T_1					
E = -769.0241569 a.u.							E = -769.0449047 a.u.					
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			
			X	Y	Z				X	Y	Z	
1	6	0	0.000000	0.276994	0.000000	1	6	0	0.000000	0.315113	0.000000	
2	6	0	1.407427	0.440211	0.000000	2	6	0	1.359157	0.467583	0.000000	
3	6	0	1.957229	1.696891	0.000000	3	6	0	1.928446	1.772759	0.000000	
4	6	0	1.111604	2.893590	0.000000	4	6	0	1.075076	2.911852	0.000000	
5	6	0	-0.250685	2.776864	0.000000	5	6	0	-0.340126	2.737314	0.000000	
6	6	0	-0.860000	1.492569	0.000000	6	6	0	-0.875781	1.481543	0.000000	
7	1	0	4.017938	1.008744	0.000000	7	1	0	3.973230	1.096676	0.000000	
8	1	0	2.056921	-0.427368	0.000000	8	1	0	2.020684	-0.391322	0.000000	
9	6	0	3.386802	1.890262	0.000000	9	6	0	3.326316	1.967059	0.000000	
10	6	0	1.757391	4.184624	0.000000	10	6	0	1.659741	4.195826	0.000000	
11	1	0	-0.870296	3.667256	0.000000	11	1	0	-0.976205	3.615929	0.000000	
12	6	0	3.099937	4.300209	0.000000	12	6	0	3.022402	4.353640	0.000000	
13	6	0	3.931526	3.124015	0.000000	13	6	0	3.865345	3.227927	0.000000	
14	1	0	1.126256	5.066391	0.000000	14	1	0	1.010073	5.064038	0.000000	
15	1	0	3.567147	5.277407	0.000000	15	1	0	3.452995	5.347729	0.000000	
16	1	0	5.008622	3.242403	0.000000	16	1	0	4.940464	3.359941	0.000000	
17	6	0	-2.181158	1.125380	0.000000	17	6	0	-2.248105	1.030962	0.000000	
18	1	0	-3.036794	1.784142	0.000000	18	1	0	-3.115606	1.674564	0.000000	
19	6	0	-0.834973	-0.812014	0.000000	19	6	0	-0.858625	-0.827844	0.000000	
20	6	0	-2.194631	-0.325693	0.000000	20	6	0	-2.225895	-0.373374	0.000000	
21	6	0	-0.888930	-2.270594	0.000000	21	6	0	-0.856654	-2.270096	0.000000	
22	6	0	-3.057343	-1.374610	0.000000	22	6	0	-3.072188	-1.488731	0.000000	
23	6	0	-2.272148	-2.616092	0.000000	23	6	0	-2.228067	-2.673204	0.000000	
24	1	0	-4.139629	-1.335965	0.000000	24	1	0	-4.152761	-1.494806	0.000000	
25	6	0	0.058765	-3.269787	0.000000	25	6	0	0.150381	-3.218903	0.000000	
26	1	0	1.117066	-3.038891	0.000000	26	1	0	1.192967	-2.924580	0.000000	
27	6	0	-2.680009	-3.931333	0.000000	27	6	0	-2.554060	-4.017459	0.000000	
28	1	0	-3.733898	-4.186489	0.000000	28	1	0	-3.590103	-4.336145	0.000000	
29	6	0	-1.706955	-4.939988	0.000000	29	6	0	-1.526639	-4.964480	0.000000	
30	1	0	-2.007895	-5.980154	0.000000	30	1	0	-1.773079	-6.019439	0.000000	
31	6	0	-0.364616	-4.608306	0.000000	31	6	0	-0.195305	-4.572295	0.000000	
32	1	0	0.379171	-5.396623	0.000000	32	1	0	0.584827	-5.323728	0.000000	

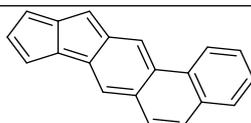


S ₀							T ₁						
E = -769.055359 a.u.							E = -769.0196408 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	1.640394	-1.003507	0.000000	1	6	0	1.617384	-1.062575	0.000000		
2	6	0	1.367695	0.317330	0.000000	2	6	0	1.350652	0.280590	0.000000		
3	6	0	0.000000	0.771755	0.000000	3	6	0	0.000000	0.741694	0.000000		
4	6	0	-1.062599	-0.195184	0.000000	4	6	0	-1.074092	-0.219003	0.000000		
5	6	0	-0.733708	-1.597060	0.000000	5	6	0	-0.771286	-1.621122	0.000000		
6	6	0	0.559857	-1.982383	0.000000	6	6	0	0.520714	-2.046875	0.000000		
7	1	0	0.482875	2.851591	0.000000	7	1	0	0.508615	2.819110	0.000000		
8	1	0	2.159508	1.058098	0.000000	8	1	0	2.153570	1.009597	0.000000		
9	6	0	-0.317393	2.118678	0.000000	9	6	0	-0.302312	2.097919	0.000000		
10	6	0	-2.375354	0.242325	0.000000	10	6	0	-2.381054	0.242542	0.000000		
11	1	0	-1.540240	-2.322416	0.000000	11	1	0	-1.593330	-2.328634	0.000000		
12	6	0	-2.699812	1.605712	0.000000	12	6	0	-2.686289	1.609089	0.000000		
13	6	0	-1.645824	2.566185	0.000000	13	6	0	-1.621310	2.560563	0.000000		
14	1	0	-3.177743	-0.488373	0.000000	14	1	0	-3.194312	-0.475814	0.000000		
15	6	0	1.157353	-3.326257	0.000000	15	6	0	1.094804	-3.368069	0.000000		
16	1	0	0.580170	-4.242029	0.000000	16	1	0	0.535050	-4.291484	0.000000		
17	6	0	2.876168	-1.782314	0.000000	17	6	0	2.821455	-1.807862	0.000000		
18	6	0	2.498578	-3.203433	0.000000	18	6	0	2.492473	-3.210702	0.000000		
19	6	0	4.222248	-1.703564	0.000000	19	6	0	4.265474	-1.673941	0.000000		
20	1	0	4.839434	-0.816251	0.000000	20	1	0	4.828533	-0.752723	0.000000		
21	6	0	3.729333	-3.978454	0.000000	21	6	0	3.697362	-3.917373	0.000000		
22	6	0	4.745552	-3.083650	0.000000	22	6	0	4.779950	-2.934557	0.000000		
23	1	0	3.813251	-5.054417	0.000000	23	1	0	3.833115	-4.989484	0.000000		
24	1	0	5.799306	-3.328176	0.000000	24	1	0	5.830835	-3.187544	0.000000		
25	6	0	-4.046366	2.065203	0.000000	25	6	0	-4.027373	2.086377	0.000000		
26	1	0	-4.845570	1.332370	0.000000	26	1	0	-4.835676	1.363736	0.000000		
27	6	0	-1.980451	3.949172	0.000000	27	6	0	-1.939866	3.948695	0.000000		
28	1	0	-1.177734	4.678117	0.000000	28	1	0	-1.128163	4.667653	0.000000		
29	6	0	-3.281200	4.353174	0.000000	29	6	0	-3.234888	4.367620	0.000000		
30	1	0	-3.522885	5.409260	0.000000	30	1	0	-3.465606	5.426035	0.000000		
31	6	0	-4.329701	3.397419	0.000000	31	6	0	-4.294000	3.421695	0.000000		
32	1	0	-5.358992	3.735343	0.000000	32	1	0	-5.319417	3.771336	0.000000		

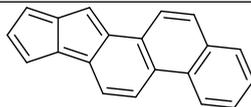


S ₀							T ₁						
E = -769.0434537 a.u.							E = -769.021512 a.u.						
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)			Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)				
			X	Y	Z				X	Y	Z		
1	6	0	0.948878	-2.007808	0.000000	1	6	0	0.668910	-2.143315	0.000000		
2	6	0	-0.150479	-1.167247	0.000000	2	6	0	-0.356258	-1.140074	0.000000		
3	6	0	0.000000	0.243628	0.000000	3	6	0	0.000000	0.249398	0.000000		
4	6	0	1.342827	0.762300	0.000000	4	6	0	1.399703	0.582370	0.000000		
5	6	0	2.444955	-0.141567	0.000000	5	6	0	2.389219	-0.469159	0.000000		
6	6	0	2.260577	-1.494697	0.000000	6	6	0	2.041280	-1.779210	0.000000		
7	1	0	-2.087025	0.760115	0.000000	7	1	0	-1.995011	1.023723	0.000000		
8	6	0	-1.071374	1.138946	0.000000	8	6	0	-0.939029	1.268029	0.000000		
9	6	0	1.533011	2.143871	0.000000	9	6	0	1.770661	1.912640	0.000000		
10	1	0	3.446722	0.272800	0.000000	10	1	0	3.433318	-0.178521	0.000000		
11	6	0	0.463760	3.032561	0.000000	11	6	0	0.823194	2.949057	0.000000		
12	6	0	-0.873008	2.515151	0.000000	12	6	0	-0.563252	2.618307	0.000000		
13	1	0	3.111047	-2.165899	0.000000	13	1	0	2.801391	-2.551323	0.000000		

14	6	0	-1.390650	-1.989846	0.000000	14	6	0	-1.641338	-1.757657	0.000000
15	1	0	-2.395152	-1.588470	0.000000	15	1	0	-2.590770	-1.243958	0.000000
16	6	0	0.426506	-3.382764	0.000000	16	6	0	0.016949	-3.392129	0.000000
17	6	0	-1.032408	-3.285318	0.000000	17	6	0	-1.434277	-3.139429	0.000000
18	6	0	-1.559720	-4.654664	0.000000	18	6	0	-2.078954	-4.375795	0.000000
19	1	0	-2.600316	-4.942089	0.000000	19	1	0	-3.141330	-4.567959	0.000000
20	6	0	0.765199	-4.682996	0.000000	20	6	0	0.216098	-4.779412	0.000000
21	1	0	1.756948	-5.114878	0.000000	21	1	0	1.155242	-5.311879	0.000000
22	6	0	-0.494620	-5.479431	0.000000	22	6	0	-1.058251	-5.369302	0.000000
23	1	0	-0.525468	-6.560046	0.000000	23	1	0	-1.242371	-6.435592	0.000000
24	1	0	2.545129	2.535526	0.000000	24	1	0	2.825146	2.168542	0.000000
25	6	0	0.650839	4.449210	0.000000	25	6	0	1.199121	4.319297	0.000000
26	1	0	1.663628	4.836606	0.000000	26	1	0	2.254101	4.569576	0.000000
27	6	0	-1.962551	3.440625	0.000000	27	6	0	-1.520412	3.670186	0.000000
28	1	0	-2.973757	3.049051	0.000000	28	1	0	-2.574132	3.414530	0.000000
29	6	0	-1.741253	4.779886	0.000000	29	6	0	-1.124388	4.973953	0.000000
30	1	0	-2.576951	5.469415	0.000000	30	1	0	-1.861818	5.767451	0.000000
31	6	0	-0.411874	5.293814	0.000000	31	6	0	0.254695	5.302531	0.000000
32	1	0	-0.256494	6.365939	0.000000	32	1	0	0.554210	6.343689	0.000000

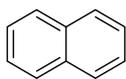


S_0						T_1					
E = -769.0604072 a.u.						E = -769.0268033 a.u.					
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			X	Y	Z				X	Y	Z
1	6	0	0.305587	-1.860002	0.000000	1	6	0	0.204300	-1.875938	0.000000
2	6	0	1.412788	-1.072389	0.000000	2	6	0	1.351166	-1.115480	0.000000
3	6	0	1.277538	0.344927	0.000000	3	6	0	1.267243	0.290284	0.000000
4	6	0	0.000000	0.942066	0.000000	4	6	0	0.000000	0.932664	0.000000
5	6	0	-1.144140	0.095799	0.000000	5	6	0	-1.170956	0.141404	0.000000
6	6	0	-0.994219	-1.257989	0.000000	6	6	0	-1.090523	-1.230068	0.000000
7	1	0	3.414438	0.686798	0.000000	7	1	0	3.415948	0.560036	0.000000
8	1	0	2.409057	-1.500347	0.000000	8	1	0	2.329274	-1.583870	0.000000
9	6	0	2.443614	1.169466	0.000000	9	6	0	2.463227	1.077589	0.000000
10	6	0	-0.104724	2.387016	0.000000	10	6	0	-0.046483	2.385210	0.000000
11	1	0	-2.138587	0.521606	0.000000	11	1	0	-2.145469	0.610254	0.000000
12	6	0	1.076773	3.166032	0.000000	12	6	0	1.162955	3.118702	0.000000
13	6	0	2.349687	2.518105	0.000000	13	6	0	2.416844	2.425663	0.000000
14	6	0	-2.008546	-2.333133	0.000000	14	6	0	-2.122758	-2.241569	0.000000
15	1	0	-3.076596	-2.156695	0.000000	15	1	0	-3.185414	-2.048787	0.000000
16	6	0	0.079996	-3.308152	0.000000	16	6	0	-0.041120	-3.278920	0.000000
17	6	0	-1.372992	-3.518845	0.000000	17	6	0	-1.476939	-3.487335	0.000000
18	6	0	0.682043	-4.511889	0.000000	18	6	0	0.608633	-4.561116	0.000000
19	1	0	1.741167	-4.728951	0.000000	19	1	0	1.671544	-4.749514	0.000000
20	6	0	-1.601324	-4.960558	0.000000	20	6	0	-1.693646	-4.862043	0.000000
21	6	0	-0.382153	-5.542871	0.000000	21	6	0	-0.380257	-5.505039	0.000000
22	1	0	-2.558089	-5.460134	0.000000	22	1	0	-2.639563	-5.383858	0.000000
23	1	0	-0.190076	-6.607171	0.000000	23	1	0	-0.227988	-6.575456	0.000000
24	6	0	0.986583	4.573474	0.000000	24	6	0	1.125111	4.526288	0.000000
25	6	0	-1.342030	3.066900	0.000000	25	6	0	-1.256448	3.109187	0.000000
26	1	0	-2.267120	2.507149	0.000000	26	1	0	-2.201097	2.583594	0.000000
27	6	0	-1.405512	4.437554	0.000000	27	6	0	-1.270511	4.482651	0.000000
28	1	0	-2.370214	4.930702	0.000000	28	1	0	-2.216421	5.010654	0.000000
29	6	0	-0.229636	5.203960	0.000000	29	6	0	-0.068146	5.202894	0.000000
30	1	0	-0.286569	6.285682	0.000000	30	1	0	-0.083497	6.286005	0.000000
31	1	0	3.242611	3.132943	0.000000	31	1	0	3.329502	3.010440	0.000000
32	1	0	1.903975	5.151596	0.000000	32	1	0	2.063030	5.070325	0.000000



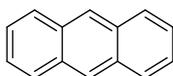
S ₀							T ₁					
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			X	Y	Z				X	Y	Z	
1	6	0	1.525325	-1.265177	0.000000	1	6	0	1.558267	-1.232952	0.000000	
2	6	0	1.296361	0.116909	0.000000	2	6	0	1.322838	0.172419	0.000000	
3	6	0	0.000000	0.640330	0.000000	3	6	0	0.000000	0.672670	0.000000	
4	6	0	-1.097764	-0.268590	0.000000	4	6	0	-1.076292	-0.246642	0.000000	
5	6	0	-0.832755	-1.645263	0.000000	5	6	0	-0.800177	-1.640999	0.000000	
6	6	0	0.458116	-2.148011	0.000000	6	6	0	0.479593	-2.128780	0.000000	
7	1	0	0.590678	2.735285	0.000000	7	1	0	0.571790	2.766336	0.000000	
8	6	0	-0.251246	2.054605	0.000000	8	6	0	-0.264305	2.078858	0.000000	
9	6	0	-2.454899	0.265373	0.000000	9	6	0	-2.434504	0.264361	0.000000	
10	1	0	-1.653128	-2.349159	0.000000	10	1	0	-1.618696	-2.346006	0.000000	
11	6	0	-2.646380	1.664231	0.000000	11	6	0	-2.648895	1.662768	0.000000	
12	6	0	-1.507793	2.538754	0.000000	12	6	0	-1.528254	2.552005	0.000000	
13	6	0	-3.950025	2.192975	0.000000	13	6	0	-3.963439	2.169447	0.000000	
14	6	0	-3.599500	-0.554477	0.000000	14	6	0	-3.569150	-0.574954	0.000000	
15	1	0	-3.495046	-1.630632	0.000000	15	1	0	-3.448432	-1.649028	0.000000	
16	6	0	-4.865972	-0.018792	0.000000	16	6	0	-4.841547	-0.059621	0.000000	
17	1	0	-5.726780	-0.676654	0.000000	17	1	0	-5.692531	-0.730048	0.000000	
18	6	0	-5.048225	1.369320	0.000000	18	6	0	-5.045640	1.327856	0.000000	
19	1	0	-6.047444	1.787402	0.000000	19	1	0	-6.051880	1.728884	0.000000	
20	1	0	-1.684028	3.608587	0.000000	20	1	0	-1.717117	3.619479	0.000000	
21	1	0	-4.073467	3.270321	0.000000	21	1	0	-4.104792	3.244476	0.000000	
22	1	0	0.622315	-3.218880	0.000000	22	1	0	0.655891	-3.197840	0.000000	
23	6	0	2.609071	0.815836	0.000000	23	6	0	2.584009	0.873882	0.000000	
24	1	0	2.735664	1.889868	0.000000	24	1	0	2.713822	1.945217	0.000000	
25	6	0	2.982955	-1.448569	0.000000	25	6	0	2.967140	-1.418187	0.000000	
26	6	0	3.581003	-0.112688	0.000000	26	6	0	3.593639	-0.095537	0.000000	
27	6	0	5.035487	-0.287517	0.000000	27	6	0	4.967889	-0.286507	0.000000	
28	1	0	5.777070	0.496877	0.000000	28	1	0	5.743797	0.464610	0.000000	
29	6	0	3.973657	-2.356890	0.000000	29	6	0	3.990900	-2.400821	0.000000	
30	1	0	3.891555	-3.435254	0.000000	30	1	0	3.868336	-3.473294	0.000000	
31	6	0	5.264042	-1.616284	0.000000	31	6	0	5.192787	-1.720856	0.000000	
32	1	0	6.233861	-2.094209	0.000000	32	1	0	6.170655	-2.183258	0.000000	

Absolute energies and x, y, z coordinates of optimized structures in T₁ state (M06-2X)



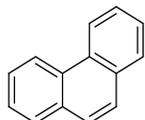
E = -385.7050592 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	2.479832	0.677590
2	6	0	0.000000	1.230483	1.397565
3	6	0	0.000000	0.000000	0.724572
4	6	0	0.000000	0.000000	-0.724572
5	6	0	0.000000	1.230483	-1.397565
6	6	0	0.000000	2.479832	-0.677590
7	1	0	0.000000	-1.237632	2.481194
8	1	0	0.000000	3.409425	1.233171
9	1	0	0.000000	1.237632	2.481194
10	6	0	0.000000	-1.230483	1.397565
11	6	0	0.000000	-1.230483	-1.397565
12	1	0	0.000000	1.237632	-2.481194
13	1	0	0.000000	3.409425	-1.233171
14	6	0	0.000000	-2.479832	-0.677590
15	6	0	0.000000	-2.479832	0.677590
16	1	0	0.000000	-1.237632	-2.481194
17	1	0	0.000000	-3.409425	-1.233171
18	1	0	0.000000	-3.409425	1.233171



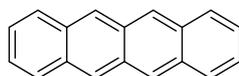
E = -539.3501165 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	-3.692385	0.688949
2	6	0	0.000000	-2.471221	1.390626
3	6	0	0.000000	-1.255841	0.716290
4	6	0	0.000000	-1.255841	-0.716290
5	6	0	0.000000	-2.471221	-1.390626
6	6	0	0.000000	-3.692385	-0.688949
7	6	0	0.000000	0.000000	1.406530
8	6	0	0.000000	0.000000	-1.406530
9	6	0	0.000000	1.255841	-0.716290
10	6	0	0.000000	1.255841	0.716290
11	6	0	0.000000	2.471221	1.390626
12	1	0	0.000000	2.472274	2.475290
13	6	0	0.000000	3.692385	0.688949
14	6	0	0.000000	3.692385	-0.688949
15	6	0	0.000000	2.471221	-1.390626
16	1	0	0.000000	0.000000	2.490807
17	1	0	0.000000	-4.626200	1.237735
18	1	0	0.000000	-2.472274	2.475290
19	1	0	0.000000	-2.472274	-2.475290
20	1	0	0.000000	-4.626200	-1.237735
21	1	0	0.000000	0.000000	-2.490807
22	1	0	0.000000	4.626200	1.237735
23	1	0	0.000000	4.626200	-1.237735
24	1	0	0.000000	2.472274	-2.475290



E = -539.3232805 a.u.

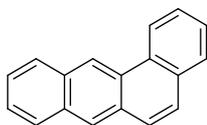
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	3.582538	-0.311255
2	6	0	0.000000	2.873159	0.872869
3	6	0	0.000000	1.444442	0.883074
4	6	0	0.000000	0.746665	-0.381916
5	6	0	0.000000	1.490554	-1.540686
6	6	0	0.000000	2.901024	-1.525495
7	6	0	0.000000	0.739083	2.073021
8	6	0	0.000000	-0.746665	-0.381916
9	6	0	0.000000	-1.444442	0.883074
10	6	0	0.000000	-0.739083	2.073021
11	6	0	0.000000	-2.873159	0.872869
12	1	0	0.000000	-3.392380	1.824850
13	6	0	0.000000	-3.582538	-0.311255
14	6	0	0.000000	-2.901024	-1.525495
15	6	0	0.000000	-1.490554	-1.540686
16	1	0	0.000000	1.269019	3.017089
17	1	0	0.000000	4.665796	-0.294323
18	1	0	0.000000	3.392380	1.824850
19	1	0	0.000000	0.997419	-2.504249
20	1	0	0.000000	3.445648	-2.461039
21	1	0	0.000000	-1.269019	3.017089
22	1	0	0.000000	-4.665796	-0.294323
23	1	0	0.000000	-3.445648	-2.461039
24	1	0	0.000000	-0.997419	-2.504249



E = -692.979846 a.u.

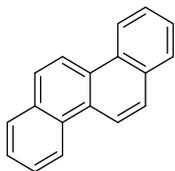
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	-4.906511	-0.696350
2	6	0	0.000000	-3.701406	-1.392241
3	6	0	0.000000	-2.479317	-0.712140
4	6	0	0.000000	-2.479317	0.712140
5	6	0	0.000000	-3.701406	1.392241
6	6	0	0.000000	-4.906511	0.696350
7	6	0	0.000000	-1.223721	-1.403308
8	6	0	0.000000	-1.223721	1.403308
9	6	0	0.000000	0.000000	0.731127
10	6	0	0.000000	0.000000	-0.731127
11	6	0	0.000000	1.223721	-1.403308
12	1	0	0.000000	1.229988	-2.488535
13	6	0	0.000000	2.479317	-0.712140
14	6	0	0.000000	2.479317	0.712140
15	6	0	0.000000	1.223721	1.403308
16	1	0	0.000000	-1.229988	-2.488535
17	1	0	0.000000	-5.843434	-1.240021
18	1	0	0.000000	-3.699731	-2.476997
19	1	0	0.000000	-3.699731	2.476997
20	1	0	0.000000	-5.843434	1.240021
21	1	0	0.000000	-1.229988	2.488535
22	1	0	0.000000	1.229988	2.488535
23	6	0	0.000000	3.701406	1.392241
24	1	0	0.000000	3.699731	2.476997

25	6	0	0.000000	3.701406	-1.392241
26	1	0	0.000000	3.699731	-2.476997
27	6	0	0.000000	4.906511	0.696350
28	1	0	0.000000	5.843434	1.240021
29	6	0	0.000000	4.906511	-0.696350
30	1	0	0.000000	5.843434	-1.240021



E = -692.9621699 a.u.

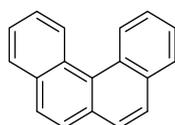
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-0.503860	-4.755940	0.000000
2	6	0	0.601162	-3.875908	0.000000
3	6	0	0.419081	-2.496785	0.000000
4	6	0	-0.913234	-1.968754	0.000000
5	6	0	-1.985013	-2.849605	0.000000
6	6	0	-1.781151	-4.249879	0.000000
7	6	0	1.506417	-1.577041	0.000000
8	6	0	-1.096821	-0.546366	0.000000
9	6	0	0.000000	0.379393	0.000000
10	6	0	1.309965	-0.144202	0.000000
11	6	0	2.414773	0.721130	0.000000
12	1	0	3.412244	0.295095	0.000000
13	6	0	2.249664	2.091967	0.000000
14	6	0	0.961630	2.654464	0.000000
15	6	0	-0.185131	1.794260	0.000000
16	1	0	2.521030	-1.959003	0.000000
17	1	0	-0.336256	-5.825954	0.000000
18	1	0	1.609544	-4.275115	0.000000
19	1	0	-2.995162	-2.454508	0.000000
20	1	0	-2.636061	-4.914810	0.000000
21	1	0	-2.115145	-0.183614	0.000000
22	1	0	3.112286	2.748868	0.000000
23	6	0	0.778456	4.065111	0.000000
24	1	0	1.659846	4.697656	0.000000
25	6	0	-1.471550	2.407610	0.000000
26	1	0	-2.362553	1.794305	0.000000
27	6	0	-1.610942	3.767502	0.000000
28	1	0	-2.601938	4.205623	0.000000
29	6	0	-0.471479	4.613445	0.000000
30	1	0	-0.599640	5.689058	0.000000



E = -692.9490924 a.u.

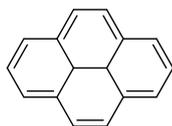
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.643420	2.521618	0.000000
2	6	0	-0.612564	1.855623	0.000000
3	6	0	-0.643420	0.369677	0.000000
4	6	0	0.643420	-0.369677	0.000000
5	6	0	1.810275	0.333826	0.000000
6	6	0	1.843845	1.754705	0.000000

7	1	0	-2.760655	0.183300	0.000000
8	6	0	-1.810275	-0.333826	0.000000
9	6	0	0.612564	-1.855623	0.000000
10	1	0	2.760655	-0.183300	0.000000
11	1	0	2.796253	2.269838	0.000000
12	6	0	-0.643420	-2.521618	0.000000
13	6	0	-1.843845	-1.754705	0.000000
14	1	0	-2.796253	-2.269838	0.000000
15	6	0	1.764991	-2.630918	0.000000
16	1	0	2.740058	-2.161653	0.000000
17	6	0	-0.684183	-3.925035	0.000000
18	1	0	-1.650463	-4.417787	0.000000
19	6	0	1.710206	-4.029399	0.000000
20	1	0	2.631108	-4.599629	0.000000
21	6	0	0.483867	-4.677181	0.000000
22	1	0	0.434359	-5.759306	0.000000
23	6	0	0.684183	3.925035	0.000000
24	1	0	1.650463	4.417787	0.000000
25	6	0	-1.764991	2.630918	0.000000
26	1	0	-2.740058	2.161653	0.000000
27	6	0	-1.710206	4.029399	0.000000
28	1	0	-2.631108	4.599629	0.000000
29	6	0	-0.483867	4.677181	0.000000
30	1	0	-0.434359	5.759306	0.000000



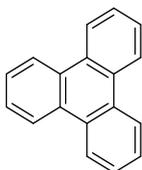
E = -692.9266948 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-3.928749	-1.607153	0.000000
2	6	0	-3.781557	-0.211491	0.000000
3	6	0	-2.526805	0.401604	0.000000
4	6	0	-1.313400	-0.385003	0.000000
5	6	0	-1.514307	-1.761774	0.000000
6	6	0	-2.795613	-2.372285	0.000000
7	6	0	-2.479765	1.820817	0.000000
8	6	0	0.000000	0.318240	0.000000
9	6	0	-0.057702	1.818828	0.000000
10	6	0	-1.238924	2.495809	0.000000
11	6	0	1.151767	2.599248	0.000000
12	1	0	1.046930	3.678534	0.000000
13	6	0	2.357600	2.021044	0.000000
14	6	0	2.486693	0.574047	0.000000
15	6	0	1.321288	-0.276627	0.000000
16	1	0	-3.408463	2.376981	0.000000
17	1	0	-4.914231	-2.056177	0.000000
18	1	0	-4.659889	0.424435	0.000000
19	1	0	-0.700842	-2.454380	0.000000
20	1	0	-2.852480	-3.453776	0.000000
21	1	0	-1.220631	3.579672	0.000000
22	1	0	3.266139	2.612325	0.000000
23	6	0	1.617730	-1.665482	0.000000
24	1	0	0.847219	-2.405283	0.000000
25	6	0	2.912183	-2.172504	0.000000
26	1	0	3.050310	-3.247139	0.000000
27	6	0	3.770111	0.048548	0.000000
28	1	0	4.605763	0.739909	0.000000
29	6	0	4.006580	-1.326034	0.000000
30	1	0	5.017391	-1.714097	0.000000



E = -615.5708457 a.u.

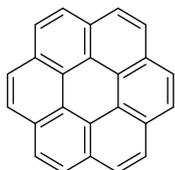
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.000000	3.547481
2	6	0	0.000000	1.206022	2.865586
3	6	0	0.000000	1.237367	1.418578
4	6	0	0.000000	0.000000	0.706449
5	6	0	0.000000	-1.237367	1.418578
6	6	0	0.000000	-1.206022	2.865586
7	6	0	0.000000	2.426013	0.704021
8	6	0	0.000000	0.000000	-0.706449
9	6	0	0.000000	1.237367	-1.418578
10	6	0	0.000000	2.426013	-0.704021
11	6	0	0.000000	1.206022	-2.865586
12	1	0	0.000000	2.146180	-3.403976
13	6	0	0.000000	0.000000	-3.547481
14	6	0	0.000000	-1.206022	-2.865586
15	6	0	0.000000	-1.237367	-1.418578
16	6	0	0.000000	-2.426013	-0.704021
17	6	0	0.000000	-2.426013	0.704021
18	1	0	0.000000	-3.368080	1.241103
19	1	0	0.000000	-3.368080	-1.241103
20	1	0	0.000000	3.368080	1.241103
21	1	0	0.000000	0.000000	4.631169
22	1	0	0.000000	2.146180	3.403976
23	1	0	0.000000	-2.146180	3.403976
24	1	0	0.000000	3.368080	-1.241103
25	1	0	0.000000	0.000000	-4.631169
26	1	0	0.000000	-2.146180	-3.403976



E = -692.9302039 a.u.

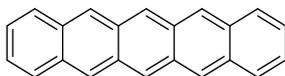
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.094236	2.510112	-1.381457
2	6	0	-0.010827	1.290816	-0.704715
3	6	0	-0.081613	0.011946	-1.433466
4	6	0	-0.373149	-0.063685	-2.769137
5	6	0	-0.010827	1.290816	0.704715
6	6	0	0.174317	-1.231368	-0.684690
7	6	0	0.174317	-1.231368	0.684690
8	6	0	-0.081613	0.011946	1.433466
9	6	0	0.321766	-2.458512	1.475523
10	6	0	0.321766	-2.458512	-1.475523
11	6	0	0.055372	-2.471643	-2.810870
12	6	0	-0.336801	-1.289229	-3.477941
13	1	0	-0.575978	-1.308515	-4.532907
14	1	0	0.145188	-3.396404	-3.368679
15	6	0	0.165259	3.714373	-0.694959
16	6	0	0.165259	3.714373	0.694959
17	6	0	0.094236	2.510112	1.381457
18	1	0	0.243699	4.645241	-1.243527

19	1	0	0.243699	4.645241	1.243527
20	6	0	-0.373149	-0.063685	2.769137
21	6	0	0.055372	-2.471643	2.810870
22	1	0	0.145188	-3.396404	3.368679
23	6	0	-0.336801	-1.289229	3.477941
24	1	0	-0.575978	-1.308515	4.532907
25	1	0	0.630717	-3.371974	0.988992
26	1	0	-0.638022	0.833043	3.315291
27	1	0	0.143027	2.521750	2.462686
28	1	0	0.143027	2.521750	-2.462686
29	1	0	0.630717	-3.371974	-0.988992
30	1	0	-0.638022	0.833043	-3.315291



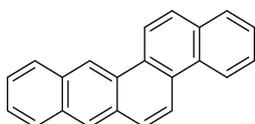
E = -921.6288275 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	1.243126	-3.549228
2	6	0	0.000000	0.000000	-2.868678
3	6	0	0.000000	0.000000	-1.415605
4	6	0	0.000000	1.219496	-0.711667
5	6	0	0.000000	2.463616	-1.421941
6	6	0	0.000000	2.426253	-2.871478
7	6	0	0.000000	-1.219496	-0.711667
8	6	0	0.000000	1.219496	0.711667
9	6	0	0.000000	0.000000	1.415605
10	6	0	0.000000	-1.219496	0.711667
11	6	0	0.000000	0.000000	2.868678
12	6	0	0.000000	1.243126	3.549228
13	6	0	0.000000	2.426253	2.871478
14	6	0	0.000000	2.463616	1.421941
15	6	0	0.000000	3.646063	0.710489
16	6	0	0.000000	3.646063	-0.710489
17	1	0	0.000000	4.589495	-1.244871
18	1	0	0.000000	4.589495	1.244871
19	1	0	0.000000	1.237268	-4.634070
20	1	0	0.000000	3.368590	-3.407433
21	1	0	0.000000	1.237268	4.634070
22	1	0	0.000000	3.368590	3.407433
23	6	0	0.000000	-1.243126	-3.549228
24	6	0	0.000000	-2.426253	-2.871478
25	6	0	0.000000	-2.463616	-1.421941
26	1	0	0.000000	-1.237268	-4.634070
27	1	0	0.000000	-3.368590	-3.407433
28	6	0	0.000000	-3.646063	-0.710489
29	6	0	0.000000	-3.646063	0.710489
30	6	0	0.000000	-2.463616	1.421941
31	1	0	0.000000	-4.589495	-1.244871
32	1	0	0.000000	-4.589495	1.244871
33	6	0	0.000000	-1.243126	3.549228
34	1	0	0.000000	-1.237268	4.634070
35	6	0	0.000000	-2.426253	2.871478
36	1	0	0.000000	-3.368590	3.407433



E = -846.6020455 a.u.

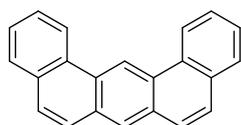
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	3.699560	-0.711482
2	6	0	0.000000	2.451781	-1.399922
3	6	0	0.000000	1.243045	-0.728255
4	6	0	0.000000	1.243045	0.728255
5	6	0	0.000000	2.451781	1.399922
6	6	0	0.000000	3.699560	0.711482
7	6	0	0.000000	0.000000	-1.408233
8	6	0	0.000000	0.000000	1.408233
9	6	0	0.000000	-1.243045	0.728255
10	6	0	0.000000	-1.243045	-0.728255
11	6	0	0.000000	-2.451781	-1.399922
12	1	0	0.000000	-2.456849	-2.485585
13	6	0	0.000000	-3.699560	-0.711482
14	6	0	0.000000	-3.699560	0.711482
15	6	0	0.000000	-2.451781	1.399922
16	1	0	0.000000	0.000000	-2.493233
17	1	0	0.000000	2.456849	-2.485585
18	1	0	0.000000	2.456849	2.485585
19	1	0	0.000000	0.000000	2.493233
20	1	0	0.000000	-2.456849	2.485585
21	6	0	0.000000	-4.930964	1.395185
22	1	0	0.000000	-4.927505	2.479910
23	6	0	0.000000	-4.930964	-1.395185
24	1	0	0.000000	-4.927505	-2.479910
25	6	0	0.000000	-6.124125	0.702182
26	1	0	0.000000	-7.063776	1.241233
27	6	0	0.000000	-6.124125	-0.702182
28	1	0	0.000000	-7.063776	-1.241233
29	6	0	0.000000	4.930964	1.395185
30	1	0	0.000000	4.927505	2.479910
31	6	0	0.000000	6.124125	0.702182
32	1	0	0.000000	7.063776	1.241233
33	6	0	0.000000	4.930964	-1.395185
34	1	0	0.000000	4.927505	-2.479910
35	6	0	0.000000	6.124125	-0.702182
36	1	0	0.000000	7.063776	-1.241233



E = -846.5839613 a.u.

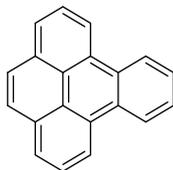
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.533515	-1.681623	0.000000
2	6	0	-0.430247	-0.615756	0.000000
3	6	0	0.000000	0.737404	0.000000
4	6	0	1.393351	1.025067	0.000000
5	6	0	2.307198	-0.025846	0.000000
6	6	0	1.887344	-1.353197	0.000000
7	6	0	-0.904430	1.845888	0.000000
8	6	0	1.842210	2.390813	0.000000
9	6	0	0.937651	3.493204	0.000000
10	6	0	-0.465496	3.212530	0.000000
11	6	0	-1.363307	4.271787	0.000000
12	1	0	-2.427829	4.063392	0.000000
13	6	0	-0.912597	5.608991	0.000000
14	6	0	0.437657	5.878224	0.000000
15	6	0	1.365075	4.817277	0.000000
16	1	0	-1.972473	1.681576	0.000000
17	1	0	3.368157	0.199574	0.000000
18	1	0	2.640775	-2.128440	0.000000

19	1	0	2.909105	2.583983	0.000000
20	1	0	-1.632873	6.417800	0.000000
21	1	0	0.793434	6.901267	0.000000
22	1	0	2.428965	5.028508	0.000000
23	6	0	-1.827326	-0.959931	0.000000
24	1	0	-2.570889	-0.175621	0.000000
25	6	0	0.074718	-3.069416	0.000000
26	6	0	-1.312185	-3.339745	0.000000
27	6	0	-2.244221	-2.244681	0.000000
28	1	0	-3.304370	-2.474607	0.000000
29	6	0	0.958069	-4.167287	0.000000
30	1	0	2.027658	-4.007334	0.000000
31	6	0	-1.772860	-4.669158	0.000000
32	1	0	-2.842736	-4.848563	0.000000
33	6	0	-0.887463	-5.724163	0.000000
34	1	0	-1.250551	-6.744728	0.000000
35	6	0	0.489943	-5.465093	0.000000
36	1	0	1.194038	-6.288545	0.000000



E = -846.5728636 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	-3.736168	0.302501
2	6	0	0.000000	-2.511918	-0.450841
3	6	0	0.000000	-1.266982	0.238666
4	6	0	0.000000	-1.262419	1.648545
5	6	0	0.000000	-2.469905	2.360937
6	6	0	0.000000	-3.687062	1.703452
7	6	0	0.000000	0.000000	-0.446374
8	6	0	0.000000	0.000000	2.342811
9	6	0	0.000000	1.262419	1.648545
10	6	0	0.000000	1.266982	0.238666
11	6	0	0.000000	2.511918	-0.450841
12	6	0	0.000000	3.736168	0.302501
13	6	0	0.000000	3.687062	1.703452
14	6	0	0.000000	2.469905	2.360937
15	1	0	0.000000	0.000000	-1.523212
16	1	0	0.000000	-2.437725	3.445037
17	1	0	0.000000	-4.614370	2.265216
18	1	0	0.000000	0.000000	3.426403
19	1	0	0.000000	4.614370	2.265216
20	1	0	0.000000	2.437725	3.445037
21	6	0	0.000000	-2.614856	-1.874700
22	1	0	0.000000	-1.719872	-2.481974
23	6	0	0.000000	-4.982720	-0.385697
24	6	0	0.000000	-5.035062	-1.748009
25	6	0	0.000000	-3.828916	-2.499647
26	1	0	0.000000	-3.875918	-3.582149
27	1	0	0.000000	-5.988384	-2.262179
28	1	0	0.000000	-5.893369	0.203891
29	6	0	0.000000	2.614856	-1.874700
30	1	0	0.000000	1.719872	-2.481974
31	6	0	0.000000	4.982720	-0.385697
32	1	0	0.000000	5.893369	0.203891
33	6	0	0.000000	5.035062	-1.748009
34	1	0	0.000000	5.988384	-2.262179
35	6	0	0.000000	3.828916	-2.499647
36	1	0	0.000000	3.875918	-3.582149



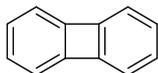
E = -769.1801691 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	3.551789	-0.905495
2	6	0	0.000000	2.861467	-2.102657
3	6	0	0.000000	1.421271	-2.113772
4	6	0	0.000000	0.715922	-0.854017
5	6	0	0.000000	1.431216	0.354418
6	6	0	0.000000	2.876723	0.303482
7	6	0	0.000000	0.714049	-3.295604
8	6	0	0.000000	-0.715922	-0.854017
9	6	0	0.000000	-1.421271	-2.113772
10	6	0	0.000000	-0.714049	-3.295604
11	6	0	0.000000	-2.861467	-2.102657
12	1	0	0.000000	-3.387377	-3.049923
13	6	0	0.000000	-3.551789	-0.905495
14	6	0	0.000000	-2.876723	0.303482
15	6	0	0.000000	-1.431216	0.354418
16	6	0	0.000000	-0.715637	1.593247
17	6	0	0.000000	0.715637	1.593247
18	1	0	0.000000	1.250006	-4.237755
19	1	0	0.000000	4.635356	-0.908830
20	1	0	0.000000	3.387377	-3.049923
21	1	0	0.000000	3.452832	1.216052
22	1	0	0.000000	-1.250006	-4.237755
23	1	0	0.000000	-4.635356	-0.908830
24	1	0	0.000000	-3.452832	1.216052
25	6	0	0.000000	-1.389252	2.846033
26	1	0	0.000000	-2.469196	2.875760
27	6	0	0.000000	1.389252	2.846033
28	1	0	0.000000	2.469196	2.875760
29	6	0	0.000000	0.706195	4.030419
30	1	0	0.000000	1.248227	4.968381
31	6	0	0.000000	-0.706195	4.030419
32	1	0	0.000000	-1.248227	4.968381



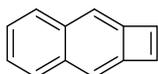
E = -308.2480187 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	1.460304	-0.630707
2	6	0	0.000000	0.728720	0.558932
3	6	0	0.000000	-0.728720	0.558932
4	6	0	0.000000	-1.460304	-0.630707
5	6	0	0.000000	-0.712061	-1.798795
6	6	0	0.000000	0.712061	-1.798795
7	1	0	0.000000	2.542901	-0.656223
8	1	0	0.000000	-2.542901	-0.656223
9	1	0	0.000000	-1.221831	-2.755032
10	1	0	0.000000	1.221831	-2.755032
11	6	0	0.000000	-0.738780	1.981326
12	1	0	0.000000	-1.499331	2.746725
13	6	0	0.000000	0.738780	1.981326
14	1	0	0.000000	1.499331	2.746725



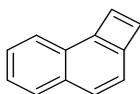
E = -461.8592831 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	1.468427	1.910457
2	6	0	0.000000	0.738131	0.711731
3	6	0	0.000000	-0.738131	0.711731
4	6	0	0.000000	-1.468427	1.910457
5	6	0	0.000000	-0.722870	3.067791
6	6	0	0.000000	0.722870	3.067791
7	1	0	0.000000	2.551080	1.939169
8	1	0	0.000000	-2.551080	1.939169
9	1	0	0.000000	-1.227045	4.026811
10	1	0	0.000000	1.227045	4.026811
11	6	0	0.000000	-0.738131	-0.711731
12	6	0	0.000000	0.738131	-0.711731
13	6	0	0.000000	-1.468427	-1.910457
14	1	0	0.000000	-2.551080	-1.939169
15	6	0	0.000000	1.468427	-1.910457
16	1	0	0.000000	2.551080	-1.939169
17	6	0	0.000000	0.722870	-3.067791
18	1	0	0.000000	1.227045	-4.026811
19	6	0	0.000000	-0.722870	-3.067791
20	1	0	0.000000	-1.227045	-4.026811



E = -461.8624356 a.u.

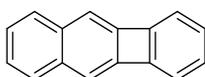
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.710761	-3.016801
2	6	0	0.000000	1.397732	-1.836598
3	6	0	0.000000	0.725184	-0.580809
4	6	0	0.000000	-0.725184	-0.580809
5	6	0	0.000000	-1.397732	-1.836598
6	6	0	0.000000	-0.710761	-3.016801
7	1	0	0.000000	2.545952	0.596478
8	1	0	0.000000	1.246607	-3.958320
9	1	0	0.000000	2.482432	-1.834221
10	6	0	0.000000	1.462372	0.624954
11	6	0	0.000000	-1.462372	0.624954
12	1	0	0.000000	-2.482432	-1.834221
13	1	0	0.000000	-1.246607	-3.958320
14	6	0	0.000000	-0.735906	1.798257
15	6	0	0.000000	0.735906	1.798257
16	1	0	0.000000	-2.545952	0.596478
17	6	0	0.000000	-0.749334	3.213931
18	1	0	0.000000	-1.510574	3.978458
19	6	0	0.000000	0.749334	3.213931
20	1	0	0.000000	1.510574	3.978458



E = -461.8737081 a.u.

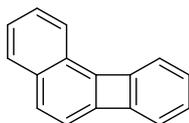
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z

1	6	0	-2.672566	1.416706	0.000000
2	6	0	-2.372647	0.066067	0.000000
3	6	0	-1.042255	-0.381960	0.000000
4	6	0	0.000000	0.596702	0.000000
5	6	0	-0.324268	1.965429	0.000000
6	6	0	-1.643937	2.370338	0.000000
7	1	0	-1.588067	-2.479154	0.000000
8	1	0	-3.706543	1.740177	0.000000
9	1	0	-3.172989	-0.666496	0.000000
10	6	0	-0.743073	-1.799340	0.000000
11	6	0	1.314386	0.066494	0.000000
12	1	0	0.477457	2.695392	0.000000
13	1	0	-1.886773	3.426251	0.000000
14	6	0	1.573215	-1.364037	0.000000
15	6	0	0.541052	-2.304015	0.000000
16	1	0	0.720966	-3.371992	0.000000
17	6	0	2.983459	-1.098178	0.000000
18	1	0	3.878623	-1.700910	0.000000
19	6	0	2.711412	0.323655	0.000000
20	1	0	3.328658	1.209562	0.000000



E = -615.4581372 a.u.

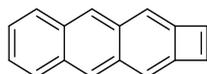
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.701237	-4.292749
2	6	0	0.000000	1.394056	-3.096044
3	6	0	0.000000	0.730789	-1.851777
4	6	0	0.000000	-0.730789	-1.851777
5	6	0	0.000000	-1.394056	-3.096044
6	6	0	0.000000	-0.701237	-4.292749
7	1	0	0.000000	2.559359	-0.649657
8	1	0	0.000000	1.242875	-5.230884
9	1	0	0.000000	2.478269	-3.096087
10	6	0	0.000000	1.478273	-0.632454
11	6	0	0.000000	-1.478273	-0.632454
12	1	0	0.000000	-2.478269	-3.096087
13	1	0	0.000000	-1.242875	-5.230884
14	6	0	0.000000	-0.722917	0.527481
15	6	0	0.000000	0.722917	0.527481
16	1	0	0.000000	-2.559359	-0.649657
17	6	0	0.000000	-0.724011	1.973004
18	6	0	0.000000	0.724011	1.973004
19	6	0	0.000000	-1.475228	3.138387
20	1	0	0.000000	-2.555123	3.158224
21	6	0	0.000000	1.475228	3.138387
22	1	0	0.000000	2.555123	3.158224
23	6	0	0.000000	0.698997	4.323624
24	1	0	0.000000	1.206220	5.281576
25	6	0	0.000000	-0.698997	4.323624
26	1	0	0.000000	-1.206220	5.281576



E = -615.4920952 a.u.

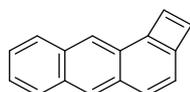
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z

1	6	0	3.103158	-2.678524	0.000000
2	6	0	1.761365	-3.061043	0.000000
3	6	0	0.739743	-2.113558	0.000000
4	6	0	1.099965	-0.727245	0.000000
5	6	0	2.450691	-0.358926	0.000000
6	6	0	3.445871	-1.329568	0.000000
7	1	0	-0.847829	-3.600714	0.000000
8	1	0	3.878481	-3.435060	0.000000
9	1	0	1.502820	-4.114837	0.000000
10	6	0	-0.660094	-2.532986	0.000000
11	6	0	0.000000	0.169637	0.000000
12	1	0	2.709838	0.693987	0.000000
13	1	0	4.488386	-1.034228	0.000000
14	6	0	-1.403485	-0.299743	0.000000
15	6	0	-1.725407	-1.650106	0.000000
16	1	0	-2.746090	-2.012610	0.000000
17	6	0	-1.839596	1.074251	0.000000
18	6	0	-0.455852	1.520401	0.000000
19	6	0	-2.900874	1.975158	0.000000
20	1	0	-3.938207	1.663521	0.000000
21	6	0	-0.128476	2.883284	0.000000
22	1	0	0.892286	3.244759	0.000000
23	6	0	-1.199139	3.759331	0.000000
24	1	0	-1.010608	4.826523	0.000000
25	6	0	-2.553517	3.319453	0.000000
26	1	0	-3.335195	4.069763	0.000000



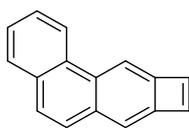
E = -615.4483894 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	-0.684828	-4.305592
2	6	0	0.000000	-1.391772	-3.074410
3	6	0	0.000000	-0.718935	-1.859556
4	6	0	0.000000	0.718935	-1.859556
5	6	0	0.000000	1.391772	-3.074410
6	6	0	0.000000	0.684828	-4.305592
7	6	0	0.000000	-1.398905	-0.605776
8	6	0	0.000000	1.398905	-0.605776
9	6	0	0.000000	0.703963	0.659667
10	6	0	0.000000	-0.703963	0.659667
11	6	0	0.000000	-1.437180	1.883909
12	1	0	0.000000	-2.521076	1.862762
13	6	0	0.000000	-0.705818	3.033750
14	6	0	0.000000	0.705818	3.033750
15	6	0	0.000000	1.437180	1.883909
16	1	0	0.000000	-2.483213	-0.600847
17	1	0	0.000000	-1.236379	-5.237718
18	1	0	0.000000	-2.476248	-3.077970
19	1	0	0.000000	2.476248	-3.077970
20	1	0	0.000000	1.236379	-5.237718
21	1	0	0.000000	2.483213	-0.600847
22	1	0	0.000000	2.521076	1.862762
23	6	0	0.000000	0.672408	4.555139
24	1	0	0.000000	1.424652	5.330988
25	6	0	0.000000	-0.672408	4.555139
26	1	0	0.000000	-1.424652	5.330988



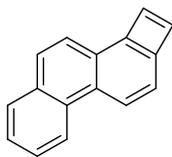
E = -615.4901595 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	1.473505	-3.951039	0.000000
2	6	0	0.247317	-3.338356	0.000000
3	6	0	0.141552	-1.924866	0.000000
4	6	0	1.334733	-1.143607	0.000000
5	6	0	2.589308	-1.807876	0.000000
6	6	0	2.658220	-3.175904	0.000000
7	6	0	-1.113108	-1.269495	0.000000
8	6	0	1.232417	0.263257	0.000000
9	6	0	0.000000	0.894840	0.000000
10	6	0	-1.220900	0.104761	0.000000
11	6	0	-2.523111	0.746977	0.000000
12	1	0	-3.389698	0.095368	0.000000
13	6	0	-2.697229	2.119022	0.000000
14	6	0	-1.538709	2.889842	0.000000
15	6	0	-0.208411	2.294746	0.000000
16	1	0	-2.014758	-1.875173	0.000000
17	1	0	1.541091	-5.032257	0.000000
18	1	0	-0.662794	-3.928778	0.000000
19	1	0	3.494653	-1.210306	0.000000
20	1	0	3.621395	-3.671886	0.000000
21	1	0	2.139126	0.859780	0.000000
22	1	0	-3.689594	2.553013	0.000000
23	6	0	-0.928413	4.196590	0.000000
24	1	0	-1.294561	5.212000	0.000000
25	6	0	0.366528	3.601869	0.000000
26	1	0	1.372947	3.993670	0.000000



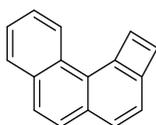
E = -615.485047 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	2.942574	-2.813387	0.000000
2	6	0	1.598453	-3.119504	0.000000
3	6	0	0.623763	-2.106250	0.000000
4	6	0	1.016795	-0.747023	0.000000
5	6	0	2.396830	-0.463421	0.000000
6	6	0	3.340256	-1.470727	0.000000
7	6	0	-0.776287	-2.445728	0.000000
8	6	0	0.000000	0.304570	0.000000
9	6	0	-1.397186	-0.088127	0.000000
10	6	0	-1.726911	-1.485964	0.000000
11	6	0	-2.441834	0.854423	0.000000
12	1	0	-3.471167	0.514347	0.000000
13	6	0	-2.084417	2.187650	0.000000
14	6	0	-0.677293	2.590375	0.000000
15	6	0	0.352601	1.663017	0.000000
16	1	0	-1.050148	-3.495233	0.000000
17	1	0	3.684187	-3.602986	0.000000
18	1	0	1.271443	-4.153958	0.000000
19	1	0	2.743109	0.561124	0.000000
20	1	0	4.393946	-1.218040	0.000000
21	1	0	-2.777837	-1.754900	0.000000
22	1	0	1.386081	1.980042	0.000000
23	6	0	-2.483272	3.550457	0.000000
24	1	0	-3.424002	4.078732	0.000000
25	6	0	-1.054718	3.954971	0.000000
26	1	0	-0.531736	4.898879	0.000000



E = -615.4906829 a.u.

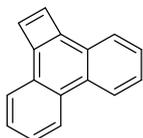
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	3.852098	-1.340176	0.000000
2	6	0	2.711839	-2.104009	0.000000
3	6	0	1.432237	-1.505274	0.000000
4	6	0	1.315003	-0.088268	0.000000
5	6	0	2.512223	0.669910	0.000000
6	6	0	3.744943	0.063135	0.000000
7	6	0	0.258047	-2.321037	0.000000
8	6	0	0.000000	0.512773	0.000000
9	6	0	-1.129845	-0.343665	0.000000
10	6	0	-0.978042	-1.760664	0.000000
11	6	0	-2.387269	0.296904	0.000000
12	6	0	-2.526863	1.740967	0.000000
13	6	0	-1.408280	2.572279	0.000000
14	6	0	-0.175985	1.944157	0.000000
15	1	0	0.378874	-3.398793	0.000000
16	1	0	4.827907	-1.810436	0.000000
17	1	0	2.775373	-3.186926	0.000000
18	1	0	2.471992	1.750276	0.000000
19	1	0	4.641637	0.671601	0.000000
20	1	0	-1.869892	-2.377255	0.000000
21	1	0	-1.476942	3.653074	0.000000
22	1	0	0.704618	2.571046	0.000000
23	6	0	-3.950664	1.601774	0.000000
24	1	0	-4.791105	2.278315	0.000000
25	6	0	-3.798785	0.149767	0.000000
26	1	0	-4.486408	-0.682344	0.000000



E = -615.4945008 a.u.

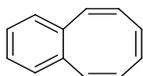
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.241753	-3.818511	0.000000
2	6	0	-0.984068	-3.198605	0.000000
3	6	0	-1.082584	-1.789339	0.000000
4	6	0	0.101774	-1.010104	0.000000
5	6	0	1.349085	-1.672181	0.000000
6	6	0	1.419190	-3.045367	0.000000
7	6	0	-2.351438	-1.134192	0.000000
8	6	0	0.000000	0.425045	0.000000
9	6	0	-1.275296	1.045907	0.000000
10	6	0	-2.439127	0.225539	0.000000
11	6	0	-1.423450	2.479792	0.000000
12	1	0	-2.435604	2.869326	0.000000
13	6	0	-0.355986	3.353341	0.000000
14	6	0	0.909047	2.764815	0.000000
15	6	0	1.093183	1.317791	0.000000
16	1	0	-3.248999	-1.743116	0.000000
17	1	0	0.306180	-4.899946	0.000000

18	1	0	-1.897097	-3.784503	0.000000
19	1	0	2.259633	-1.087532	0.000000
20	1	0	2.384640	-3.537128	0.000000
21	1	0	-3.410509	0.708319	0.000000
22	1	0	-0.506123	4.425697	0.000000
23	6	0	2.323926	2.948373	0.000000
24	1	0	2.988510	3.798288	0.000000
25	6	0	2.505084	1.505546	0.000000
26	1	0	3.372813	0.863501	0.000000



E = -615.4968295 a.u.

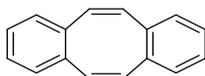
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	-3.579558	-0.750979
2	6	0	0.000000	-2.892258	0.443865
3	6	0	0.000000	-1.484357	0.461022
4	6	0	0.000000	-0.743095	-0.760728
5	6	0	0.000000	-1.479757	-1.952204
6	6	0	0.000000	-2.866452	-1.954347
7	6	0	0.000000	-0.720107	1.651042
8	6	0	0.000000	0.743095	-0.760728
9	6	0	0.000000	1.484357	0.461022
10	6	0	0.000000	0.720107	1.651042
11	6	0	0.000000	2.892258	0.443865
12	1	0	0.000000	3.423465	1.389001
13	6	0	0.000000	3.579558	-0.750979
14	6	0	0.000000	2.866452	-1.954347
15	6	0	0.000000	1.479757	-1.952204
16	1	0	0.000000	-4.662749	-0.759246
17	1	0	0.000000	-3.423465	1.389001
18	1	0	0.000000	-0.972920	-2.907467
19	1	0	0.000000	-3.397870	-2.898301
20	1	0	0.000000	4.662749	-0.759246
21	1	0	0.000000	3.397870	-2.898301
22	1	0	0.000000	0.972920	-2.907467
23	6	0	0.000000	-0.719528	3.082810
24	1	0	0.000000	-1.475695	3.853125
25	6	0	0.000000	0.719528	3.082810
26	1	0	0.000000	1.475695	3.853125



E = -463.0938797 a.u.

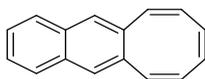
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	-0.702667	3.039072
2	6	0	0.000000	0.702667	3.039072
3	6	0	0.000000	1.366063	1.839636
4	6	0	0.000000	0.720967	0.566537
5	6	0	0.000000	-0.720967	0.566537
6	6	0	0.000000	-1.366063	1.839636
7	1	0	0.000000	-1.258197	3.968707
8	1	0	0.000000	1.258197	3.968707
9	1	0	0.000000	2.449780	1.848102
10	1	0	0.000000	-2.449780	1.848102

11	6	0	0.000000	1.654480	-0.513965
12	1	0	0.000000	2.672338	-0.137113
13	6	0	0.000000	-1.654480	-0.513965
14	1	0	0.000000	-2.672338	-0.137113
15	6	0	0.000000	1.657471	-1.919568
16	1	0	0.000000	2.671623	-2.309002
17	6	0	0.000000	-1.657471	-1.919568
18	1	0	0.000000	-2.671623	-2.309002
19	6	0	0.000000	0.710379	-2.920261
20	1	0	0.000000	1.135177	-3.919404
21	6	0	0.000000	-0.710379	-2.920261
22	1	0	0.000000	-1.135177	-3.919404



E = -616.7004681 a.u.

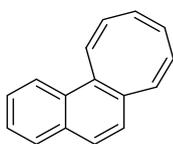
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.710394	4.253360
2	6	0	0.000000	-0.710394	4.253360
3	6	0	0.000000	-1.375746	3.065684
4	6	0	0.000000	-0.724345	1.784867
5	6	0	0.000000	0.724345	1.784867
6	6	0	0.000000	1.375746	3.065684
7	1	0	0.000000	1.259652	5.186706
8	1	0	0.000000	-1.259652	5.186706
9	1	0	0.000000	-2.459596	3.070593
10	1	0	0.000000	2.459596	3.070593
11	6	0	0.000000	-1.622982	0.700171
12	1	0	0.000000	-2.648143	1.059002
13	6	0	0.000000	1.622982	0.700171
14	1	0	0.000000	2.648143	1.059002
15	6	0	0.000000	-1.622982	-0.700171
16	1	0	0.000000	-2.648143	-1.059002
17	6	0	0.000000	1.622982	-0.700171
18	1	0	0.000000	2.648143	-1.059002
19	6	0	0.000000	-0.724345	-1.784867
20	6	0	0.000000	0.724345	-1.784867
21	6	0	0.000000	1.375746	-3.065684
22	1	0	0.000000	2.459596	-3.070593
23	6	0	0.000000	-1.375746	-3.065684
24	1	0	0.000000	-2.459596	-3.070593
25	6	0	0.000000	0.710394	-4.253360
26	1	0	0.000000	1.259652	-5.186706
27	6	0	0.000000	-0.710394	-4.253360
28	1	0	0.000000	-1.259652	-5.186706



E = -616.7073781 a.u.

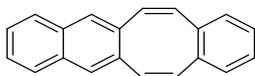
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.711873	4.266595
2	6	0	0.000000	1.404637	3.089364
3	6	0	0.000000	0.711547	1.845722
4	6	0	0.000000	-0.711547	1.845722
5	6	0	0.000000	-1.404637	3.089364
6	6	0	0.000000	-0.711873	4.266595
7	1	0	0.000000	2.453360	0.629388
8	1	0	0.000000	1.243355	5.210614

9	1	0	0.000000	2.489261	3.084281
10	6	0	0.000000	1.368548	0.612996
11	6	0	0.000000	-1.368548	0.612996
12	1	0	0.000000	-2.489261	3.084281
13	1	0	0.000000	-1.243355	5.210614
14	6	0	0.000000	-0.731004	-0.638440
15	6	0	0.000000	0.731004	-0.638440
16	1	0	0.000000	-2.453360	0.629388
17	6	0	0.000000	-1.658776	-1.725577
18	1	0	0.000000	-2.677957	-1.353081
19	6	0	0.000000	1.658776	-1.725577
20	1	0	0.000000	2.677957	-1.353081
21	6	0	0.000000	-1.657739	-3.137309
22	1	0	0.000000	-2.672424	-3.525533
23	6	0	0.000000	1.657739	-3.137309
24	1	0	0.000000	2.672424	-3.525533
25	6	0	0.000000	-0.715915	-4.132221
26	6	0	0.000000	0.715915	-4.132221
27	1	0	0.000000	1.137945	-5.132439
28	1	0	0.000000	-1.137945	-5.132439



E = -616.7063033 a.u.

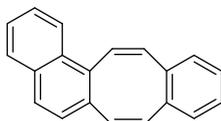
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	3.225599	-2.590371	0.000000
2	6	0	1.911776	-2.989241	0.000000
3	6	0	0.863445	-2.048608	0.000000
4	6	0	1.119872	-0.652456	0.000000
5	6	0	2.490536	-0.285904	0.000000
6	6	0	3.506130	-1.217994	0.000000
7	1	0	-0.674160	-3.579450	0.000000
8	1	0	4.028260	-3.317398	0.000000
9	1	0	1.654367	-4.043019	0.000000
10	6	0	-0.485219	-2.511970	0.000000
11	6	0	0.000000	0.320512	0.000000
12	1	0	2.803052	0.746453	0.000000
13	1	0	4.534037	-0.875147	0.000000
14	6	0	-1.341897	-0.202406	0.000000
15	6	0	-1.508670	-1.630865	0.000000
16	1	0	-2.521657	-2.014156	0.000000
17	6	0	0.392416	1.679388	0.000000
18	1	0	1.463172	1.785395	0.000000
19	6	0	-0.157619	2.976606	0.000000
20	1	0	0.632923	3.722067	0.000000
21	6	0	-2.612566	0.451739	0.000000
22	1	0	-3.405592	-0.288823	0.000000
23	6	0	-3.179368	1.729559	0.000000
24	1	0	-4.264377	1.678262	0.000000
25	6	0	-2.710281	3.033762	0.000000
26	1	0	-3.494551	3.784308	0.000000
27	6	0	-1.410069	3.563695	0.000000
28	1	0	-1.379988	4.648831	0.000000



E = -770.310041 a.u.

Center	Atomic	Atomic	Coordinates (Angstroms)		
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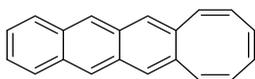
Number	Number	Type	X	Y	Z
1	6	0	0.000000	0.715441	5.481273
2	6	0	0.000000	1.407548	4.309121
3	6	0	0.000000	0.715981	3.057557
4	6	0	0.000000	-0.715981	3.057557
5	6	0	0.000000	-1.407548	4.309121
6	6	0	0.000000	-0.715441	5.481273
7	1	0	0.000000	2.459508	1.848329
8	1	0	0.000000	1.244846	6.426455
9	1	0	0.000000	2.492121	4.304520
10	6	0	0.000000	1.374542	1.836306
11	6	0	0.000000	-1.374542	1.836306
12	1	0	0.000000	-2.492121	4.304520
13	1	0	0.000000	-1.244846	6.426455
14	6	0	0.000000	-0.728876	0.580577
15	6	0	0.000000	0.728876	0.580577
16	1	0	0.000000	-2.459508	1.848329
17	6	0	0.000000	-1.626897	-0.515287
18	1	0	0.000000	-2.652232	-0.157952
19	6	0	0.000000	1.626897	-0.515287
20	1	0	0.000000	2.652232	-0.157952
21	6	0	0.000000	-1.623371	-1.917944
22	1	0	0.000000	-2.649003	-2.275686
23	6	0	0.000000	1.623371	-1.917944
24	1	0	0.000000	2.649003	-2.275686
25	6	0	0.000000	-0.729874	-2.993463
26	6	0	0.000000	0.729874	-2.993463
27	6	0	0.000000	-1.380370	-4.283316
28	1	0	0.000000	-2.464208	-4.287967
29	6	0	0.000000	1.380370	-4.283316
30	1	0	0.000000	2.464208	-4.287967
31	6	0	0.000000	-0.715327	-5.464499
32	1	0	0.000000	-1.261466	-6.399645
33	6	0	0.000000	0.715327	-5.464499
34	1	0	0.000000	1.261466	-6.399645



E = -770.318215 a.u.

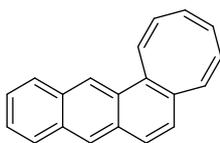
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-0.697392	5.184127	0.000000
2	6	0	0.581878	4.669017	0.000000
3	6	0	0.808664	3.284602	0.000000
4	6	0	-0.266007	2.361740	0.000000
5	6	0	-1.559533	2.927228	0.000000
6	6	0	-1.771833	4.294758	0.000000
7	1	0	2.972101	3.515309	0.000000
8	1	0	-0.864287	6.254161	0.000000
9	1	0	1.441489	5.330611	0.000000
10	6	0	2.159885	2.797256	0.000000
11	6	0	0.000000	0.894861	0.000000
12	1	0	-2.446874	2.312983	0.000000
13	1	0	-2.788306	4.669707	0.000000
14	6	0	1.390887	0.460020	0.000000
15	6	0	2.413451	1.473182	0.000000
16	1	0	3.443707	1.137957	0.000000
17	6	0	-1.125635	0.072563	0.000000
18	1	0	-2.036310	0.648043	0.000000
19	6	0	-1.507331	-1.283484	0.000000
20	1	0	-2.591935	-1.340138	0.000000
21	6	0	1.938622	-0.840145	0.000000
22	1	0	3.022443	-0.777136	0.000000

23	6	0	1.576083	-2.182765	0.000000
24	1	0	2.468241	-2.802405	0.000000
25	6	0	0.412414	-2.995928	0.000000
26	6	0	-0.963160	-2.588945	0.000000
27	6	0	0.685123	-4.396160	0.000000
28	6	0	-1.951671	-3.624678	0.000000
29	1	0	-2.992923	-3.322382	0.000000
30	6	0	-1.647168	-4.956733	0.000000
31	1	0	-2.437673	-5.697027	0.000000
32	6	0	-0.291862	-5.354004	0.000000
33	1	0	-0.026706	-6.404223	0.000000
34	1	0	1.724551	-4.704538	0.000000



E = -770.2562409 a.u.

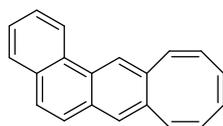
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.688559	5.554316
2	6	0	0.000000	1.390399	4.332271
3	6	0	0.000000	0.716653	3.116978
4	6	0	0.000000	-0.716653	3.116978
5	6	0	0.000000	-1.390399	4.332271
6	6	0	0.000000	-0.688559	5.554316
7	6	0	0.000000	1.408911	1.861387
8	6	0	0.000000	-1.408911	1.861387
9	6	0	0.000000	-0.710195	0.615265
10	6	0	0.000000	0.710195	0.615265
11	6	0	0.000000	1.356263	-0.614133
12	1	0	0.000000	2.441063	-0.607067
13	6	0	0.000000	0.702211	-1.871074
14	6	0	0.000000	-0.702211	-1.871074
15	6	0	0.000000	-1.356263	-0.614133
16	1	0	0.000000	2.493063	1.859907
17	1	0	0.000000	1.237725	6.487816
18	1	0	0.000000	2.474994	4.333783
19	1	0	0.000000	-2.474994	4.333783
20	1	0	0.000000	-1.237725	6.487816
21	1	0	0.000000	-2.493063	1.859907
22	1	0	0.000000	-2.441063	-0.607067
23	6	0	0.000000	-1.671668	-2.990403
24	1	0	0.000000	-2.682911	-2.594429
25	6	0	0.000000	1.671668	-2.990403
26	1	0	0.000000	2.682911	-2.594429
27	6	0	0.000000	1.671644	-4.332930
28	1	0	0.000000	2.676753	-4.745554
29	6	0	0.000000	-1.671644	-4.332930
30	1	0	0.000000	-2.676753	-4.745554
31	6	0	0.000000	-0.668916	-5.396730
32	1	0	0.000000	-1.121060	-6.384151
33	6	0	0.000000	0.668916	-5.396730
34	1	0	0.000000	1.121060	-6.384151



E = -770.3199002 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z

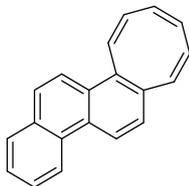
1	6	0	2.928703	4.409806	0.000000
2	6	0	1.574825	4.225821	0.000000
3	6	0	1.025153	2.913871	0.000000
4	6	0	1.898616	1.792220	0.000000
5	6	0	3.304479	2.020631	0.000000
6	6	0	3.805130	3.291758	0.000000
7	6	0	-0.353056	2.660635	0.000000
8	6	0	1.366568	0.489474	0.000000
9	6	0	0.000000	0.219650	0.000000
10	6	0	-0.861342	1.373331	0.000000
11	6	0	-2.279777	1.177566	0.000000
12	1	0	-2.926544	2.047628	0.000000
13	6	0	-2.800272	-0.065391	0.000000
14	6	0	-2.016255	-1.276645	0.000000
15	6	0	-0.579618	-1.154172	0.000000
16	1	0	-1.046716	3.495864	0.000000
17	1	0	3.341746	5.411329	0.000000
18	1	0	0.900025	5.074928	0.000000
19	1	0	3.972005	1.165501	0.000000
20	1	0	4.876133	3.454440	0.000000
21	1	0	2.108120	-0.295476	0.000000
22	1	0	-3.877928	-0.174120	0.000000
23	6	0	0.368607	-2.198524	0.000000
24	1	0	1.376767	-1.821724	0.000000
25	6	0	0.448762	-3.602332	0.000000
26	1	0	1.487248	-3.922182	0.000000
27	6	0	-2.864121	-2.423259	0.000000
28	1	0	-3.903208	-2.110312	0.000000
29	6	0	-2.808359	-3.817601	0.000000
30	1	0	-3.804271	-4.251070	0.000000
31	6	0	-0.416952	-4.688304	0.000000
32	1	0	0.092906	-5.646658	0.000000
33	6	0	-1.809656	-4.785837	0.000000
34	1	0	-2.184889	-5.804341	0.000000



E = -770.3302999 a.u.

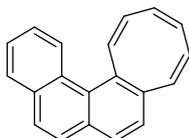
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-2.660862	-2.373021	0.000000
2	6	0	-1.325077	-2.569190	0.000000
3	6	0	-0.419586	-1.453412	0.000000
4	6	0	-0.927827	-0.125022	0.000000
5	6	0	-2.372389	0.085842	0.000000
6	6	0	-3.223943	-1.044490	0.000000
7	1	0	1.314487	-2.667050	0.000000
8	1	0	-3.343422	-3.215855	0.000000
9	1	0	-0.910571	-3.571347	0.000000
10	6	0	0.956602	-1.642799	0.000000
11	6	0	0.000000	0.906753	0.000000
12	6	0	1.405164	0.747251	0.000000
13	6	0	1.916499	-0.612203	0.000000
14	1	0	-0.363841	1.925510	0.000000
15	6	0	2.095737	1.995667	0.000000
16	1	0	1.391611	2.821365	0.000000
17	6	0	3.256941	-1.107448	0.000000
18	1	0	3.259340	-2.192704	0.000000
19	6	0	3.417020	2.487699	0.000000
20	1	0	3.426693	3.574013	0.000000
21	6	0	4.576531	-0.617235	0.000000
22	1	0	5.295024	-1.432139	0.000000
23	6	0	4.681647	1.952822	0.000000
24	6	0	5.181223	0.616782	0.000000
25	1	0	6.265803	0.569645	0.000000

26	1	0	5.469880	2.699422	0.000000
27	6	0	-2.963142	1.363436	0.000000
28	1	0	-2.342124	2.249861	0.000000
29	6	0	-4.619409	-0.866257	0.000000
30	1	0	-5.255980	-1.744755	0.000000
31	6	0	-5.173480	0.395328	0.000000
32	1	0	-6.249445	0.520822	0.000000
33	6	0	-4.334242	1.517820	0.000000
34	1	0	-4.761901	2.513274	0.000000



E = -770.3232619 a.u.

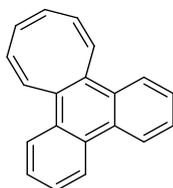
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-2.664976	1.624195	0.000000
2	6	0	-2.482360	0.223863	0.000000
3	6	0	-1.137250	-0.318520	0.000000
4	6	0	0.000000	0.517668	0.000000
5	6	0	-0.256312	1.934525	0.000000
6	6	0	-1.509411	2.454277	0.000000
7	1	0	-1.781563	-2.400163	0.000000
8	6	0	-0.939196	-1.724515	0.000000
9	6	0	1.367133	-0.040857	0.000000
10	1	0	0.545946	2.653259	0.000000
11	1	0	-1.644215	3.530610	0.000000
12	6	0	1.508994	-1.473646	0.000000
13	6	0	0.310238	-2.250650	0.000000
14	1	0	0.410750	-3.329139	0.000000
15	6	0	2.414244	0.914496	0.000000
16	1	0	2.040272	1.921771	0.000000
17	6	0	3.822971	0.997037	0.000000
18	1	0	4.137184	2.037379	0.000000
19	6	0	2.662564	-2.320207	0.000000
20	1	0	2.350745	-3.359457	0.000000
21	6	0	4.061096	-2.260891	0.000000
22	1	0	4.496478	-3.256089	0.000000
23	6	0	5.016986	-1.262504	0.000000
24	1	0	6.039636	-1.626170	0.000000
25	6	0	4.906631	0.142056	0.000000
26	1	0	5.863330	0.655259	0.000000
27	6	0	-3.643689	-0.587691	0.000000
28	1	0	-3.563026	-1.665364	0.000000
29	6	0	-3.964218	2.177065	0.000000
30	1	0	-4.069968	3.256625	0.000000
31	6	0	-5.070088	1.364821	0.000000
32	1	0	-6.066071	1.790718	0.000000
33	6	0	-4.901408	-0.032304	0.000000
34	1	0	-5.771199	-0.678543	0.000000



E = -770.3228822 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z

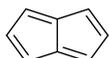
1	6	0	3.235772	1.461267	0.260745
2	6	0	2.237308	2.379216	0.237755
3	6	0	0.873413	1.977347	0.127422
4	6	0	0.525197	0.616778	0.086202
5	6	0	1.596731	-0.350305	-0.074726
6	6	0	2.945335	0.077402	0.064184
7	1	0	0.114518	4.009056	0.101649
8	1	0	4.270415	1.765300	0.374688
9	1	0	2.454234	3.438571	0.320839
10	6	0	-0.155674	2.959765	0.063921
11	6	0	-0.873464	0.225924	0.211617
12	6	0	-1.871511	1.214178	-0.116673
13	6	0	-1.446575	2.582539	-0.122917
14	1	0	-2.206323	3.341786	-0.270027
15	6	0	-1.097320	-1.004494	0.885485
16	1	0	-0.203185	-1.333710	1.404147
17	6	0	-2.150181	-1.906379	1.088755
18	1	0	-1.875132	-2.693650	1.785185
19	6	0	-3.231418	1.049090	-0.480716
20	1	0	-3.685410	2.002725	-0.735431
21	6	0	-4.108968	-0.013134	-0.746135
22	1	0	-4.982352	0.313031	-1.304782
23	6	0	-4.167835	-1.347784	-0.385059
24	1	0	-5.043773	-1.867427	-0.761599
25	6	0	-3.390673	-2.114555	0.505991
26	1	0	-3.853489	-3.056032	0.786969
27	6	0	1.380506	-1.694157	-0.475088
28	1	0	0.376977	-2.026545	-0.704241
29	6	0	3.998651	-0.856470	-0.062485
30	1	0	5.016411	-0.507003	0.074418
31	6	0	3.748430	-2.166468	-0.384637
32	1	0	4.563773	-2.871999	-0.489791
33	6	0	2.423953	-2.576740	-0.623368
34	1	0	2.223276	-3.592227	-0.943658



E = -770.3120485 a.u.

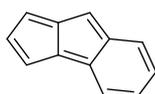
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	3.526840	-1.810366
2	6	0	0.000000	2.855570	-0.608380
3	6	0	0.000000	1.439012	-0.510370
4	6	0	0.000000	0.731627	-1.733404
5	6	0	0.000000	1.438234	-2.951851
6	6	0	0.000000	2.812436	-3.006457
7	6	0	0.000000	0.718335	0.791929
8	6	0	0.000000	-0.731627	-1.733404
9	6	0	0.000000	-1.439012	-0.510370
10	6	0	0.000000	-0.718335	0.791929
11	6	0	0.000000	-2.855570	-0.608380
12	1	0	0.000000	-3.489035	0.262460
13	6	0	0.000000	-3.526840	-1.810366
14	6	0	0.000000	-2.812436	-3.006457
15	6	0	0.000000	-1.438234	-2.951851
16	1	0	0.000000	4.610064	-1.813932
17	1	0	0.000000	3.489035	0.262460
18	1	0	0.000000	0.903988	-3.888630
19	1	0	0.000000	3.323161	-3.961475
20	1	0	0.000000	-4.610064	-1.813932

21	1	0	0.000000	-3.323161	-3.961475
22	1	0	0.000000	-0.903988	-3.888630
23	6	0	0.000000	-1.578675	1.920524
24	1	0	0.000000	-2.606099	1.613143
25	6	0	0.000000	1.578675	1.920524
26	1	0	0.000000	2.606099	1.613143
27	6	0	0.000000	1.603072	3.324972
28	1	0	0.000000	2.628871	3.683307
29	6	0	0.000000	-1.603072	3.324972
30	1	0	0.000000	-2.628871	3.683307
31	6	0	0.000000	-0.697256	4.374510
32	1	0	0.000000	-1.155219	5.358490
33	6	0	0.000000	0.697256	4.374510
34	1	0	0.000000	1.155219	5.358490



E = -308.2864462 a.u.

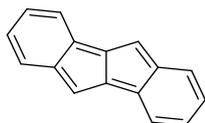
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	-1.168704	-1.335065
2	6	0	0.000000	-0.741131	0.000000
3	6	0	0.000000	0.741131	0.000000
4	6	0	0.000000	1.168704	-1.335065
5	1	0	0.000000	0.000000	-3.219661
6	1	0	0.000000	-2.183438	-1.703309
7	1	0	0.000000	2.183438	-1.703309
8	6	0	0.000000	0.000000	-2.137422
9	6	0	0.000000	1.168704	1.335065
10	1	0	0.000000	2.183438	1.703309
11	6	0	0.000000	-1.168704	1.335065
12	1	0	0.000000	-2.183438	1.703309
13	6	0	0.000000	0.000000	2.137422
14	1	0	0.000000	0.000000	3.219661



E = -461.9136612 a.u.

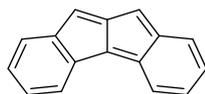
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.666656	0.000000
2	6	0	1.071089	-0.274010	0.000000
3	6	0	0.494718	-1.619323	0.000000
4	6	0	-0.904149	-1.510775	0.000000
5	1	0	-1.629832	-2.310601	0.000000
6	6	0	-1.218851	-0.100133	0.000000
7	6	0	1.554157	-2.521226	0.000000
8	1	0	1.507529	-3.600040	0.000000
9	6	0	2.495790	-0.388641	0.000000
10	1	0	3.213314	0.417584	0.000000
11	6	0	2.782848	-1.736317	0.000000
12	1	0	3.776304	-2.164005	0.000000
13	6	0	-2.445522	0.562052	0.000000
14	1	0	-3.374234	0.003129	0.000000
15	6	0	-0.038440	2.062458	0.000000
16	1	0	0.880652	2.637327	0.000000
17	6	0	-2.460187	1.953340	0.000000
18	1	0	-3.410237	2.474914	0.000000
19	6	0	-1.271859	2.699341	0.000000

20 1 0 -1.321059 3.781159 0.000000



E = -615.5278641 a.u.

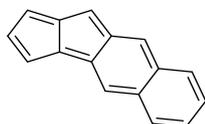
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-1.183557	3.363518	0.000000
2	6	0	-0.807002	2.002522	0.000000
3	6	0	0.612121	1.661205	0.000000
4	6	0	1.589050	2.679890	0.000000
5	6	0	1.183557	3.990072	0.000000
6	6	0	-0.203334	4.325937	0.000000
7	1	0	-2.231546	3.640595	0.000000
8	1	0	2.642209	2.422896	0.000000
9	1	0	1.916442	4.787505	0.000000
10	1	0	-0.483639	5.373300	0.000000
11	6	0	0.692159	0.257688	0.000000
12	6	0	-1.590739	0.820654	0.000000
13	1	0	-2.669861	0.783364	0.000000
14	6	0	-0.692159	-0.257688	0.000000
15	6	0	-0.612121	-1.661205	0.000000
16	6	0	1.590739	-0.820654	0.000000
17	1	0	2.669861	-0.783364	0.000000
18	6	0	0.807002	-2.002522	0.000000
19	6	0	-1.589050	-2.679890	0.000000
20	1	0	-2.642209	-2.422896	0.000000
21	6	0	1.183557	-3.363518	0.000000
22	1	0	2.231546	-3.640595	0.000000
23	6	0	0.203334	-4.325937	0.000000
24	1	0	0.483639	-5.373300	0.000000
25	6	0	-1.183557	-3.990072	0.000000
26	1	0	-1.916442	-4.787505	0.000000



E = -615.5484546 a.u.

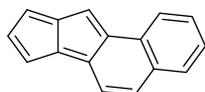
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	-3.564104	0.717733
2	6	0	0.000000	-2.181070	0.837033
3	6	0	0.000000	-1.363364	-0.340866
4	6	0	0.000000	-1.944865	-1.603010
5	6	0	0.000000	-3.336944	-1.703631
6	6	0	0.000000	-4.133181	-0.558526
7	1	0	0.000000	-4.194871	1.599583
8	1	0	0.000000	-1.331589	-2.496564
9	1	0	0.000000	-3.804710	-2.680506
10	1	0	0.000000	-5.211900	-0.661266
11	6	0	0.000000	0.000000	0.113752
12	6	0	0.000000	-1.327541	2.013470
13	1	0	0.000000	-1.678333	3.035176
14	6	0	0.000000	0.000000	1.563035
15	6	0	0.000000	1.327541	2.013470
16	6	0	0.000000	1.363364	-0.340866
17	6	0	0.000000	2.181070	0.837033

18	6	0	0.000000	3.564104	0.717733
19	1	0	0.000000	4.194871	1.599583
20	6	0	0.000000	1.944865	-1.603010
21	1	0	0.000000	1.331589	-2.496564
22	6	0	0.000000	4.133181	-0.558526
23	1	0	0.000000	5.211900	-0.661266
24	6	0	0.000000	3.336944	-1.703631
25	1	0	0.000000	3.804710	-2.680506
26	1	0	0.000000	1.678333	3.035176



E = -615.5317489 a.u.

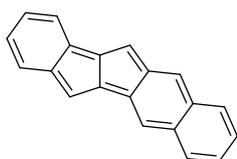
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.785295	0.000000
2	6	0	1.244321	0.197983	0.000000
3	6	0	1.354728	-1.215592	0.000000
4	6	0	0.170275	-2.016300	0.000000
5	6	0	-1.111266	-1.398058	0.000000
6	6	0	-1.213368	-0.029983	0.000000
7	1	0	3.512159	-1.240648	0.000000
8	1	0	2.146462	0.801509	0.000000
9	6	0	2.618777	-1.856425	0.000000
10	6	0	0.308411	-3.425622	0.000000
11	1	0	-1.997171	-2.024914	0.000000
12	6	0	1.547213	-4.016366	0.000000
13	6	0	2.717759	-3.223966	0.000000
14	1	0	-0.589091	-4.035027	0.000000
15	1	0	1.631980	-5.096596	0.000000
16	1	0	3.690260	-3.700856	0.000000
17	6	0	-2.362637	0.844153	0.000000
18	1	0	-3.392178	0.518308	0.000000
19	6	0	-0.428421	2.143627	0.000000
20	6	0	-1.878110	2.164686	0.000000
21	6	0	0.054387	3.504096	0.000000
22	1	0	1.085282	3.824779	0.000000
23	6	0	-2.268962	3.505160	0.000000
24	1	0	-3.274248	3.900335	0.000000
25	6	0	-1.049139	4.313711	0.000000
26	1	0	-1.037266	5.394724	0.000000



E = -615.5342995 a.u.

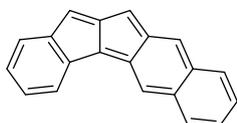
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.957370	-0.631650	0.000000
2	6	0	2.240272	-0.030947	0.000000
3	6	0	2.051867	1.431664	0.000000
4	6	0	0.674282	1.699226	0.000000
5	1	0	0.200673	2.669411	0.000000
6	6	0	0.000000	0.434858	0.000000
7	6	0	3.313942	2.015772	0.000000
8	1	0	3.559063	3.067275	0.000000
9	6	0	3.623760	-0.300525	0.000000
10	1	0	4.105942	-1.266168	0.000000

11	6	0	4.269815	0.937708	0.000000
12	1	0	5.343043	1.075536	0.000000
13	6	0	-1.396056	0.134813	0.000000
14	6	0	0.541599	-1.984030	0.000000
15	1	0	1.281132	-2.776381	0.000000
16	6	0	-1.784279	-1.234740	0.000000
17	6	0	-0.792233	-2.272581	0.000000
18	1	0	-1.133014	-3.301900	0.000000
19	6	0	-3.159759	-1.547669	0.000000
20	1	0	-3.457650	-2.590861	0.000000
21	6	0	-2.393453	1.134729	0.000000
22	1	0	-2.096359	2.177162	0.000000
23	6	0	-3.726738	0.799046	0.000000
24	1	0	-4.482284	1.575383	0.000000
25	6	0	-4.112948	-0.554948	0.000000
26	1	0	-5.165186	-0.813818	0.000000



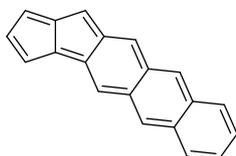
E = -769.1464317 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.620243	0.000000
2	6	0	0.143003	1.989995	0.000000
3	6	0	-1.011284	2.817803	0.000000
4	6	0	-2.306830	2.216257	0.000000
5	6	0	-2.438541	0.793849	0.000000
6	6	0	-1.324153	0.001123	0.000000
7	1	0	0.081151	4.676434	0.000000
8	1	0	1.126352	2.449789	0.000000
9	6	0	-0.907257	4.228899	0.000000
10	6	0	-3.440565	3.058589	0.000000
11	1	0	-3.434626	0.362765	0.000000
12	6	0	-3.308614	4.427913	0.000000
13	6	0	-2.029360	5.021305	0.000000
14	1	0	-4.426065	2.605164	0.000000
15	1	0	-4.191620	5.056059	0.000000
16	1	0	-1.935096	6.100334	0.000000
17	6	0	-1.155610	-1.437806	0.000000
18	1	0	-1.960682	-2.157484	0.000000
19	6	0	0.931744	-0.451700	0.000000
20	6	0	0.215513	-1.683423	0.000000
21	6	0	2.371758	-0.723695	0.000000
22	1	0	3.169733	0.004065	0.000000
23	6	0	1.199189	-2.740581	0.000000
24	6	0	2.511269	-2.107276	0.000000
25	6	0	1.097704	-4.127236	0.000000
26	1	0	0.126492	-4.608168	0.000000
27	6	0	3.679412	-2.920947	0.000000
28	1	0	4.659948	-2.458538	0.000000
29	6	0	2.258844	-4.888817	0.000000
30	1	0	2.187935	-5.970036	0.000000
31	6	0	3.542858	-4.284925	0.000000
32	1	0	4.421999	-4.917799	0.000000



E = -769.1684921 a.u.

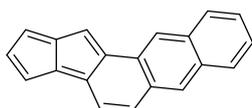
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.316628	0.000000
2	6	0	1.364144	0.455998	0.000000
3	6	0	1.941854	1.757669	0.000000
4	6	0	1.095322	2.906243	0.000000
5	6	0	-0.321676	2.746258	0.000000
6	6	0	-0.868722	1.490259	0.000000
7	1	0	3.982124	1.062062	0.000000
8	1	0	2.018123	-0.409529	0.000000
9	6	0	3.344227	1.939715	0.000000
10	6	0	1.691853	4.188258	0.000000
11	1	0	-0.950483	3.630894	0.000000
12	6	0	3.058232	4.334168	0.000000
13	6	0	3.894536	3.198308	0.000000
14	1	0	1.048130	5.061534	0.000000
15	1	0	3.496987	5.324778	0.000000
16	1	0	4.970619	3.322467	0.000000
17	6	0	-2.245365	1.049726	0.000000
18	1	0	-3.107433	1.700421	0.000000
19	6	0	-0.866787	-0.821660	0.000000
20	6	0	-2.234427	-0.356204	0.000000
21	6	0	-0.873174	-2.263478	0.000000
22	6	0	-3.088162	-1.469322	0.000000
23	6	0	-2.250112	-2.658187	0.000000
24	1	0	-4.168438	-1.471247	0.000000
25	6	0	0.131664	-3.219703	0.000000
26	1	0	1.175768	-2.929204	0.000000
27	6	0	-2.585334	-4.004080	0.000000
28	1	0	-3.623804	-4.315898	0.000000
29	6	0	-1.561309	-4.957308	0.000000
30	1	0	-1.813038	-6.011239	0.000000
31	6	0	-0.223481	-4.572594	0.000000
32	1	0	0.551743	-5.329202	0.000000



E = -769.1435914 a.u.

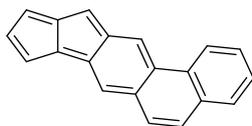
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	1.618975	-1.061489	0.000000
2	6	0	1.352285	0.284606	0.000000
3	6	0	0.000000	0.741867	0.000000
4	6	0	-1.074656	-0.223650	0.000000
5	6	0	-0.773331	-1.625213	0.000000
6	6	0	0.524373	-2.050018	0.000000
7	1	0	0.507680	2.823992	0.000000
8	1	0	2.155962	1.013956	0.000000
9	6	0	-0.303571	2.101848	0.000000
10	6	0	-2.386241	0.237735	0.000000
11	1	0	-1.595393	-2.333446	0.000000
12	6	0	-2.690680	1.605592	0.000000
13	6	0	-1.624804	2.561396	0.000000
14	1	0	-3.199813	-0.481416	0.000000
15	6	0	1.099383	-3.370159	0.000000
16	1	0	0.539144	-4.293175	0.000000
17	6	0	2.827656	-1.805319	0.000000
18	6	0	2.499155	-3.211931	0.000000
19	6	0	4.270517	-1.666566	0.000000

20	1	0	4.830201	-0.743323	0.000000
21	6	0	3.707550	-3.916376	0.000000
22	6	0	4.789258	-2.930479	0.000000
23	1	0	3.846116	-4.987780	0.000000
24	1	0	5.840663	-3.182033	0.000000
25	6	0	-4.035310	2.081242	0.000000
26	1	0	-4.842038	1.356221	0.000000
27	6	0	-1.944917	3.952183	0.000000
28	1	0	-1.132237	4.670709	0.000000
29	6	0	-3.243085	4.369316	0.000000
30	1	0	-3.475736	5.427467	0.000000
31	6	0	-4.303449	3.418902	0.000000
32	1	0	-5.329204	3.767902	0.000000



E = -769.1479908 a.u.

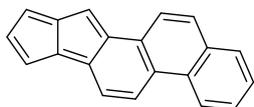
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.681319	-2.145443	0.000000
2	6	0	-0.353537	-1.141710	0.000000
3	6	0	0.000000	0.250015	0.000000
4	6	0	1.401461	0.588151	0.000000
5	6	0	2.397149	-0.460630	0.000000
6	6	0	2.053279	-1.776177	0.000000
7	1	0	-2.002390	1.014160	0.000000
8	6	0	-0.946474	1.264070	0.000000
9	6	0	1.768396	1.922092	0.000000
10	1	0	3.440227	-0.164353	0.000000
11	6	0	0.812954	2.955457	0.000000
12	6	0	-0.574437	2.618488	0.000000
13	1	0	2.814879	-2.547417	0.000000
14	6	0	-1.635059	-1.761869	0.000000
15	1	0	-2.586506	-1.251208	0.000000
16	6	0	0.032993	-3.396810	0.000000
17	6	0	-1.423042	-3.146435	0.000000
18	6	0	-2.067300	-4.387740	0.000000
19	1	0	-3.129330	-4.580915	0.000000
20	6	0	0.234895	-4.783078	0.000000
21	1	0	1.174267	-5.315039	0.000000
22	6	0	-1.045824	-5.377046	0.000000
23	1	0	-1.227204	-6.443919	0.000000
24	1	0	2.822552	2.183337	0.000000
25	6	0	1.184497	4.328707	0.000000
26	1	0	2.239271	4.582173	0.000000
27	6	0	-1.538721	3.665867	0.000000
28	1	0	-2.591344	3.403460	0.000000
29	6	0	-1.147621	4.974548	0.000000
30	1	0	-1.888183	5.765221	0.000000
31	6	0	0.232750	5.309862	0.000000
32	1	0	0.527691	6.352598	0.000000



E = -769.1519076 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z

1	6	0	0.199560	-1.879584	0.000000
2	6	0	1.352434	-1.121231	0.000000
3	6	0	1.269938	0.285301	0.000000
4	6	0	0.000000	0.932624	0.000000
5	6	0	-1.175023	0.147144	0.000000
6	6	0	-1.097142	-1.229715	0.000000
7	1	0	3.421489	0.546635	0.000000
8	1	0	2.329504	-1.593510	0.000000
9	6	0	2.471242	1.069649	0.000000
10	6	0	-0.040735	2.387711	0.000000
11	1	0	-2.150004	0.616297	0.000000
12	6	0	1.173483	3.117538	0.000000
13	6	0	2.428865	2.420993	0.000000
14	6	0	-2.132267	-2.235861	0.000000
15	1	0	-3.193802	-2.037677	0.000000
16	6	0	-0.049411	-3.282713	0.000000
17	6	0	-1.490983	-3.486618	0.000000
18	6	0	0.597199	-4.566450	0.000000
19	1	0	1.659538	-4.757243	0.000000
20	6	0	-1.711142	-4.862227	0.000000
21	6	0	-0.399864	-5.509148	0.000000
22	1	0	-2.658022	-5.381796	0.000000
23	1	0	-0.251856	-6.580281	0.000000
24	6	0	1.142738	4.527134	0.000000
25	6	0	-1.250228	3.116153	0.000000
26	1	0	-2.197746	2.594934	0.000000
27	6	0	-1.258174	4.493112	0.000000
28	1	0	-2.201815	5.025215	0.000000
29	6	0	-0.050792	5.209965	0.000000
30	1	0	-0.061777	6.293122	0.000000
31	1	0	3.342347	3.005348	0.000000
32	1	0	2.083954	5.066296	0.000000



E = -769.1528682 a.u.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	1.558553	-1.241597	0.000000
2	6	0	1.325953	0.170937	0.000000
3	6	0	0.000000	0.672524	0.000000
4	6	0	-1.078166	-0.247043	0.000000
5	6	0	-0.805196	-1.646530	0.000000
6	6	0	0.476325	-2.137603	0.000000
7	1	0	0.583726	2.763896	0.000000
8	6	0	-0.257326	2.081439	0.000000
9	6	0	-2.435804	0.267635	0.000000
10	1	0	-1.625039	-2.350466	0.000000
11	6	0	-2.645994	1.669612	0.000000
12	6	0	-1.523340	2.559452	0.000000
13	6	0	-3.960405	2.183194	0.000000
14	6	0	-3.575121	-0.570329	0.000000
15	1	0	-3.459857	-1.645407	0.000000
16	6	0	-4.847770	-0.047921	0.000000
17	1	0	-5.701657	-0.714803	0.000000
18	6	0	-5.047541	1.343441	0.000000
19	1	0	-6.052703	1.747249	0.000000
20	1	0	-1.712097	3.627335	0.000000
21	1	0	-4.096415	3.259319	0.000000
22	1	0	0.653628	-3.206798	0.000000
23	6	0	2.583874	0.870715	0.000000
24	1	0	2.715293	1.942080	0.000000
25	6	0	2.965886	-1.429645	0.000000
26	6	0	3.595972	-0.100917	0.000000

27	6	0	4.972206	-0.294191	0.000000
28	1	0	5.748952	0.455857	0.000000
29	6	0	3.987756	-2.411591	0.000000
30	1	0	3.865512	-3.483983	0.000000
31	6	0	5.194778	-1.725893	0.000000
32	1	0	6.172821	-2.188416	0.000000
