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Integration of Global Ring Currents Using the Ampére-Maxwell Law

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1 Molecular structures

1.1 Cyclobutadiene

C	−0.788531173	−0.665006534	−0.000090870
C	0.788443827	−0.665107729	0.000044266
C	0.788528913	0.665007534	−0.000043774
C	−0.788441493	0.665108723	0.000091833
H	−1.551084257	−1.429484135	−0.000189133
H	−1.550883169	1.429677306	0.000190266
H	1.551079415	1.429483209	−0.000162574
H	1.550888091	−1.429678195	0.000163225

1.2 Benzene

C	−1.390787514	0.000000000	−0.000004355
C	−0.695392019	−1.204435116	−0.000007324
C	−0.695392019	1.204435111	0.000013595
H	−1.236805349	−2.142237734	−0.000009081
H	−1.236805349	2.142237729	0.000006916
C	0.695392024	−1.204435116	0.000013531
C	0.695392019	1.204435111	−0.000004953
H	1.236805354	−2.142237734	0.000015531
H	1.236805343	2.142237729	−0.000001831
C	1.390787514	0.000000000	−0.000006461
H	2.473652804	0.000000011	−0.000011478
H	−2.473652809	0.000000016	−0.000004080

1.3 Cyclohexadiene

C	1.493166330	0.000088515	0.000070899
C	0.663987624	1.250367622	−0.000049901
C	0.664134429	−1.250288896	−0.000061707
H	1.199665805	2.194030693	−0.000134078
H	1.199927452	−2.193886688	−0.000189631
C	−0.664132884	1.250289065	−0.000048520
C	−0.663986233	−1.250367743	−0.000057474
H	−1.199926309	2.193887106	−0.000153255
H	−1.199662662	−2.194032222	−0.000136718
C	−1.493165389	−0.000088701	0.000075413
H	2.166428522	0.000135586	0.868340976
H	2.166682273	0.000119197	−0.868001022
H	−2.166420616	−0.000118102	0.868352311
H	−2.166689094	−0.000135575	−0.867990211

1.4 Borazine

B	−0.724240799	−1.254477345	0.000016352
N	0.703104920	−1.217787427	0.000109942
N	−1.406194833	0.000011520	−0.000062919
H	1.206549581	−2.089957906	0.000304806
B	1.448636758	−0.000013018	−0.000075344
B	−0.724215266	1.254483541	0.000129569
H	−1.320792737	2.287578060	0.000339912
N	0.703130104	1.217779945	0.000063940
H	1.206583448	2.089944851	0.000034222
H	−1.320830673	−2.287561846	−0.000019262
H	−2.413242040	0.000029258	−0.000165495
H	2.641504938	−0.000029893	−0.000244803

1.5 p-Benzoquinone

C	−0.667844030	−1.265268909	0.000064369
C	0.667824075	−1.265279588	0.000077170
C	−1.438065940	0.000010748	0.000004016
H	1.253774581	−2.176092986	0.000065644
C	1.438063744	−0.000010785	−0.000003662
C	−0.667825715	1.265279170	0.000112318
H	−1.253775502	2.176091309	0.000205474
C	0.667842384	1.265269242	0.000060697
H	1.253811640	2.176070316	0.000048261
H	−1.253812513	−2.176068761	0.000061972
O	−2.655767111	0.000024083	−0.000133898
O	2.655767778	−0.000024093	−0.000131453

1.6 Hexadehydro[12]annulene

C	2.675695392	−0.824999322	0.000495273
C	2.750805906	0.523293343	−0.000162934
C	1.609545706	1.357096339	−0.000629086
C	0.598061913	2.018505632	−0.000748579
C	−0.623294847	2.729782821	−0.000393681
C	−1.828376961	2.120526444	0.000555710
C	−1.979712208	0.715258470	0.000700176
C	−2.047000165	−0.491410488	0.000492982
C	−2.052466370	−1.904793712	0.000012796
C	−0.922308541	−2.643873398	−0.000485314
C	0.370336914	−2.072205883	−0.000191631
C	1.448896986	−1.526930485	0.000348320
H	3.592712859	−1.402918701	0.000998626
H	3.726333443	0.995743971	−0.000169993
H	−2.725401397	2.728994199	0.001115130
H	−0.581493299	3.812886923	−0.000740250
H	−3.011417060	−2.410031786	−0.000134564
H	−1.000752792	−3.724960911	−0.001004955

1.7 Porphyrin

C	2.896481613	−1.097819786	0.000590091
N	2.109207750	0.020850118	−0.000211877
C	2.874392400	1.154726422	−0.000683559
C	0.717797881	−4.235448143	0.000791570
C	−0.634349317	−4.248799211	0.000022792
C	−1.057060940	−2.854632366	−0.000645702
N	0.019828531	−2.024548142	−0.000295466
C	1.112903766	−2.833198163	0.000593451
C	−0.717807131	4.235447572	0.000850287
C	0.634341654	4.248802778	0.000152858
C	1.057056469	2.854634763	−0.000568003
N	−0.019834802	2.024547121	−0.000241887
C	−1.112910302	2.833197338	0.000663202
C	−4.239420211	−0.725711086	−0.000002027
C	−4.252836797	0.642102330	0.000591128
C	−2.896480497	1.097816674	0.000623477
N	−2.109205681	−0.020850811	−0.000226821
C	−2.874388146	−1.154725798	−0.000700668
C	4.239428027	0.725709774	−0.000238855
C	4.252841258	−0.642107436	0.000704515

C	2.439810061	-2.407811094	0.001053264
C	-2.439814168	2.407808379	0.001094063
C	-2.392085745	-2.455494235	-0.001161761
C	2.392086470	2.455497309	-0.001127423
H	1.097766693	0.010925304	-0.000277643
H	1.395654548	-5.075306805	0.001336448
H	-1.295500959	-5.101864158	0.000052669
H	-1.395665967	5.075304117	0.001296230
H	1.295492884	5.101871847	0.000297091
H	-5.086141106	-1.392926237	0.000172316
H	-5.112471236	1.292586769	0.000731736
H	-1.097767334	-0.010925081	-0.000332101
H	5.086152748	1.392926094	-0.000583979
H	5.112475813	-1.292595125	0.001390662
H	3.202147606	-3.176227409	0.001396901
H	-3.202152384	3.176221688	0.001453084
H	-3.139145048	-3.238765100	-0.001889369
H	3.139148372	3.238772831	-0.001853480

1.8 Isophlorin

C	2.919565187	-1.115106991	0.001849898
O	2.115908372	-0.008253821	-0.000061787
C	2.928122867	1.092340700	0.000609316
C	0.657548633	-4.248850706	-0.002315505
C	-0.690546364	-4.243596695	-0.003279608
C	-1.127793544	-2.870532470	-0.001811659
O	-0.007997921	-2.064817684	-0.000429898
C	1.105479886	-2.879237505	-0.000534157
C	-0.657548516	4.248850552	-0.002412784
C	0.690546443	4.243596526	-0.003306797
C	1.127793581	2.870532306	-0.001824989
O	0.007997985	2.064817520	-0.000461104
C	-1.105479732	2.879237494	-0.000606760
C	-4.243240014	-0.690090446	0.003067836
C	-4.237760267	0.723072413	0.003808938
C	-2.919564812	1.115107149	0.001796636
O	-2.115907927	0.008253911	-0.000078683
C	-2.928122560	-1.092340499	0.000591033
C	4.243240390	0.690090864	0.003090369
C	4.237760727	-0.723072042	0.003795508
C	2.380462240	-2.433903559	0.000936977
C	-2.380461986	2.433903681	0.000866300
C	-2.399271253	-2.415281383	-0.001242947
C	2.399271343	2.415281436	-0.001235888
H	1.319217445	-5.099938879	-0.002796003
H	-1.358821663	-5.089508616	-0.004772681
H	-1.319217281	5.099938689	-0.002978511
H	1.358821837	5.089508452	-0.004754647
H	-5.098268462	-1.345290436	0.004299819
H	-5.087686298	1.384881224	0.005482308
H	5.098268790	1.345290907	0.004325188
H	5.087686965	-1.384880891	0.005317173
H	3.132106017	-3.212649933	0.001197592
H	-3.132105763	3.212650033	0.001160798
H	-3.156949021	-3.188156927	-0.002039460

H	3.156948942	3.188157128	−0.002040238