

Supporting Information:

Janusene as a Silver Ion Scavenger : Insights from Computation

Matheus C. Colaço,^{*,†} Giovanni F. Caramori,^{*,†} Renato L. T. Parreira,[‡] and
Kenneth K. Laali[¶]

[†]*Departamento de Química, Universidade Federal de Santa Catarina, Campus
Universitário Trindade, 88040-900, Florianópolis, SC, Brazil.*

[‡]*Núcleo de Pesquisa em Ciências Exatas e Tecnológicas, Universidade de Franca, Franca,
SP, 14404-600, Brazil*

[¶]*Department of Chemistry, University of North Florida, Jacksonville, FL 32224-7699, USA*

E-mail: matheus.colaco@posgrad.ufsc.br; giovanni.caramori@ufsc.br

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Supporting Information Available

In a nutshell, the first, second and third sections of the SI available includes the illustrations of all studied systems in different perspectives, the geometrical parameters of these systems and it's atomic charges. The fourth section brings the MEP isosurfaces of the studied systems, evidencing the modifications on the electronic density of janusene caused by Ag^+ ions. In the fifth section, QTAIM illustrations and the BCP parameters for the studied interactions are presented, evidencing the character of these interactions, as well as the effects caused by coordination of Ag^+ at positions C/E on the $[\text{Ag}_A \cdots \text{Ag}_B]^{2+}$ interaction. The sixth section, regarding the energy decomposition analysis, presents Table S15 containing all EDA terms for each fragmentation scheme employed, as well as the NOCVs deformation densities for the main fragmentations. Finally, the last two sections includes respectively the NCI analysis, with plots of s *vs.* ρ_b , and the Cartesian coordinates of the studied systems.

Systems Illustrations

1Ag Systems

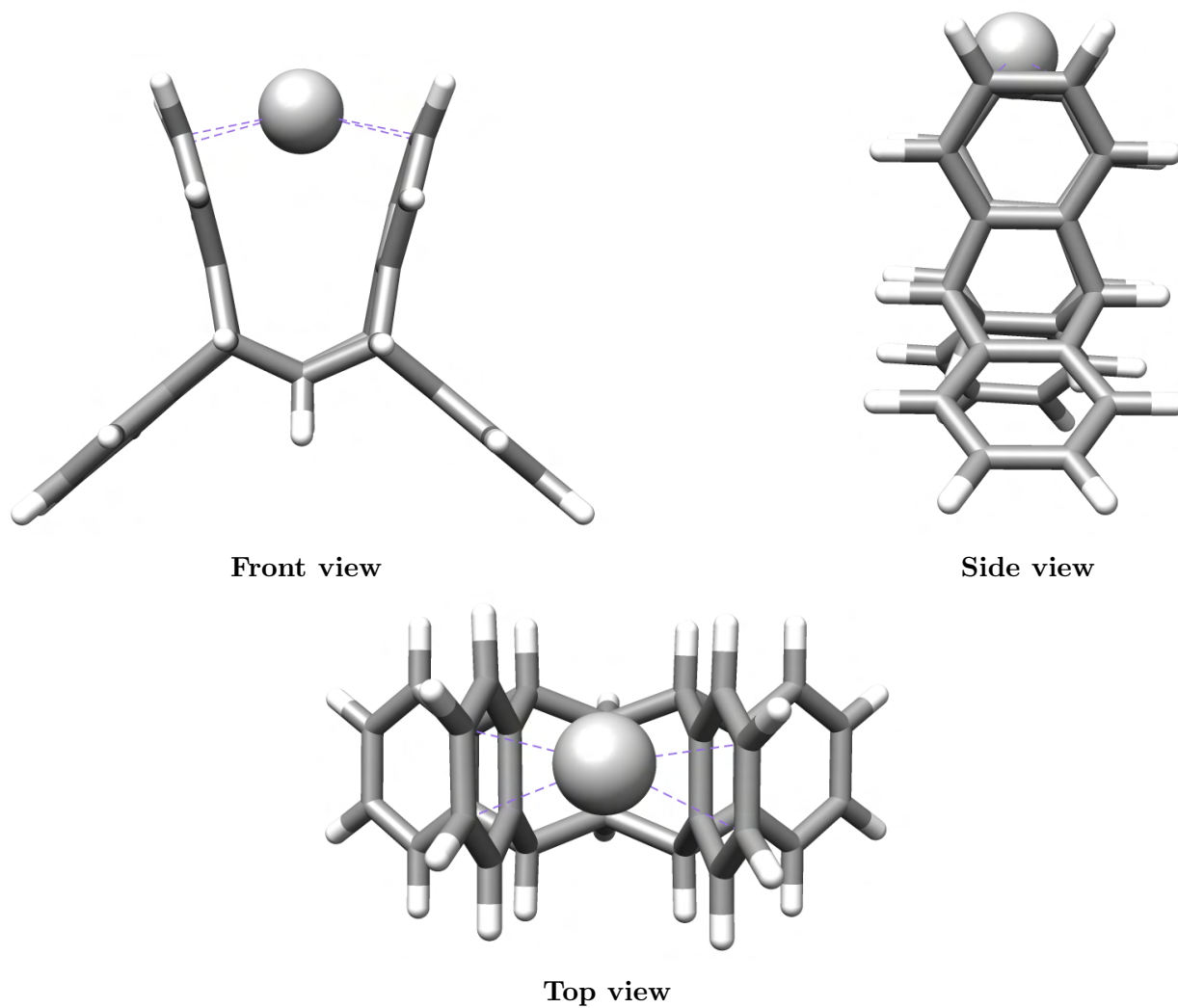


Figure S1: Illustration of system **1a**.

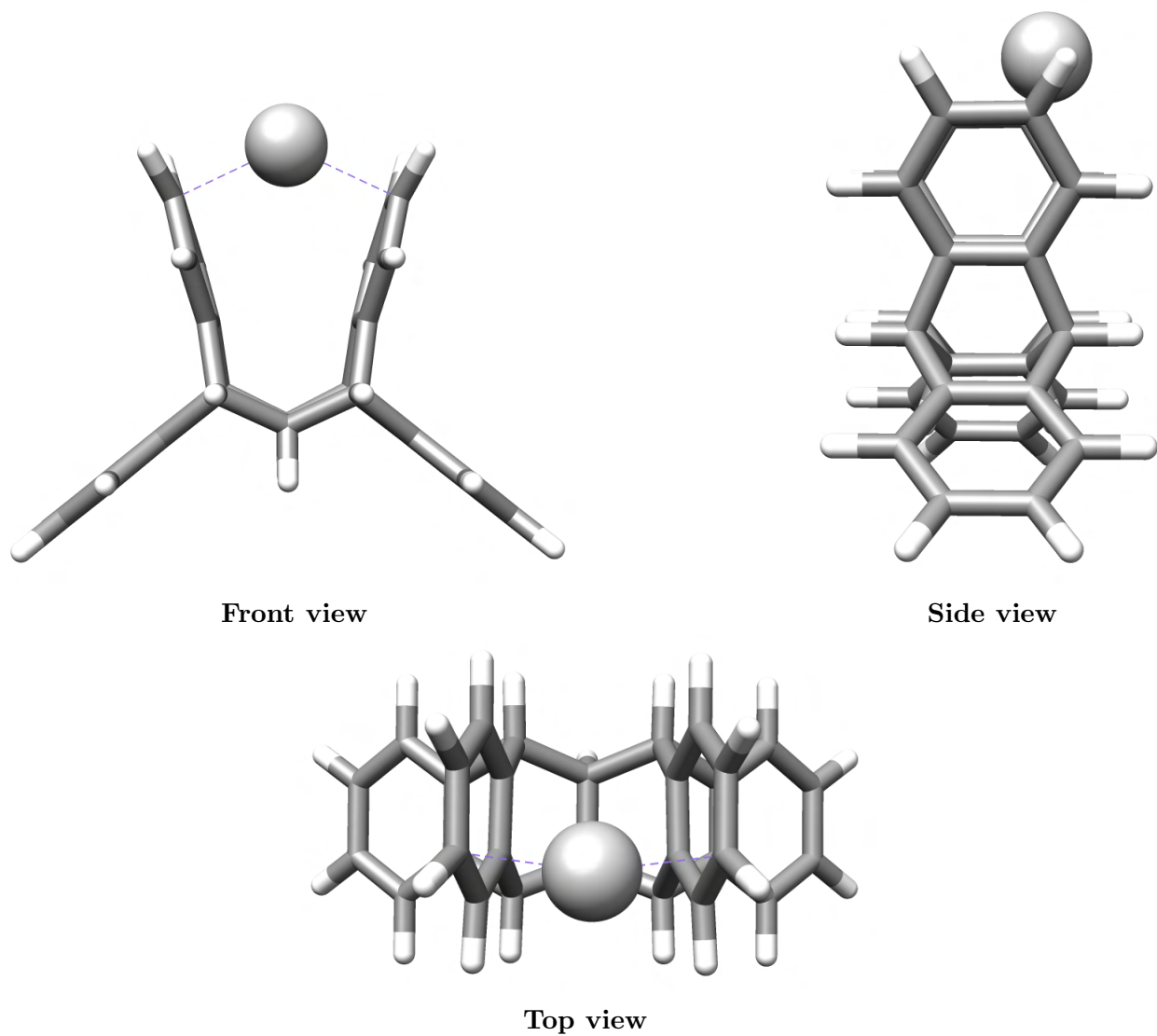
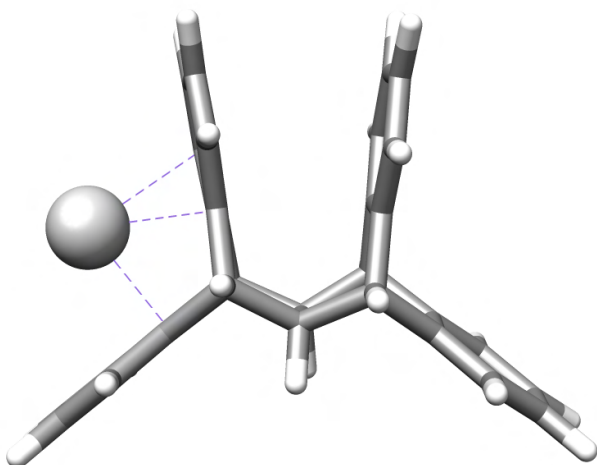
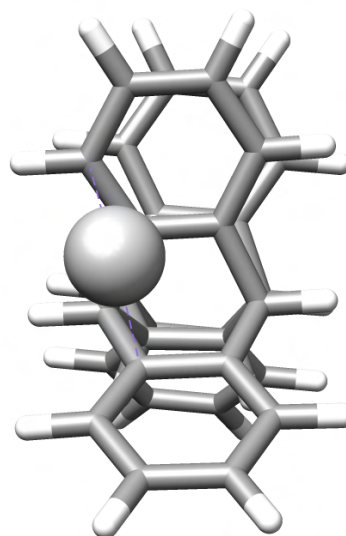


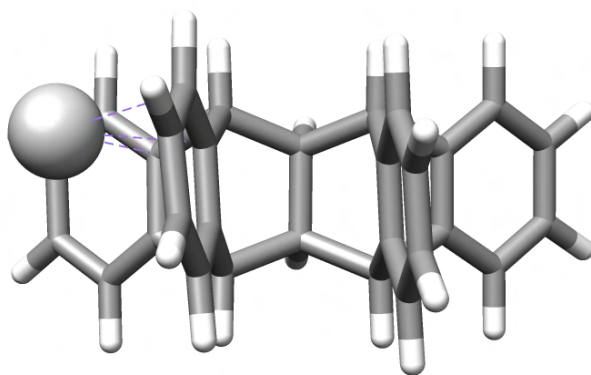
Figure S2: Illustration of system **1b**.



Front view

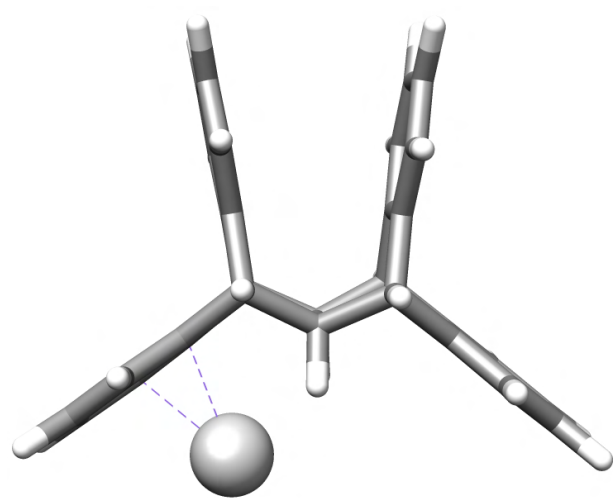


Side view

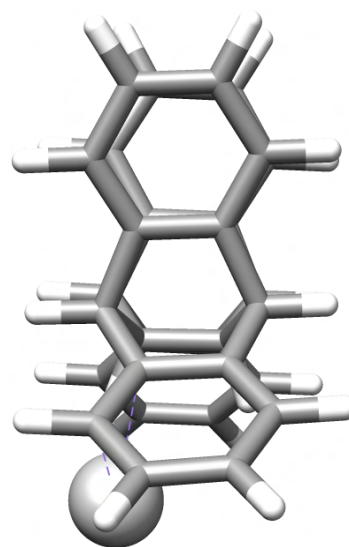


Top view

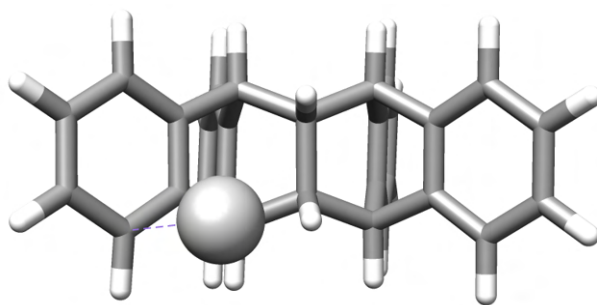
Figure S3: Illustration of system **1c**.



Front view



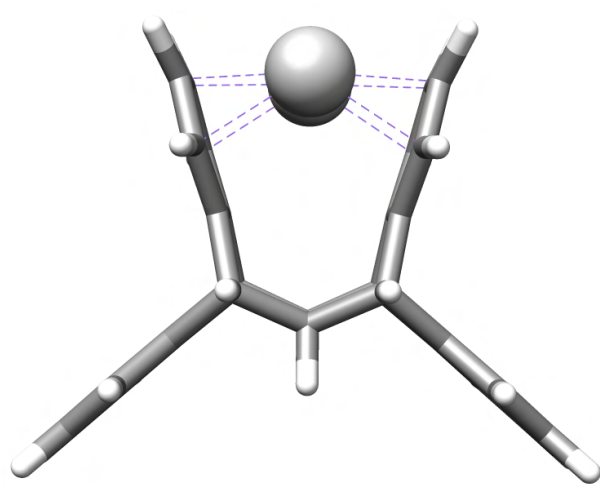
Side view



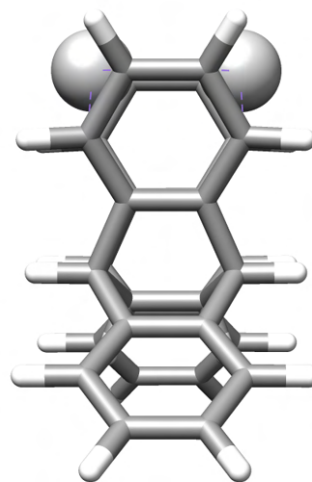
Bottom view

Figure S4: Illustration of system **1d**.

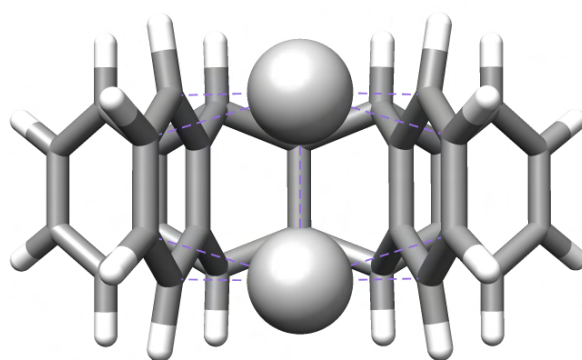
2Ag Systems



Front view



Side view



Top view

Figure S5: Illustration of system **2a**.

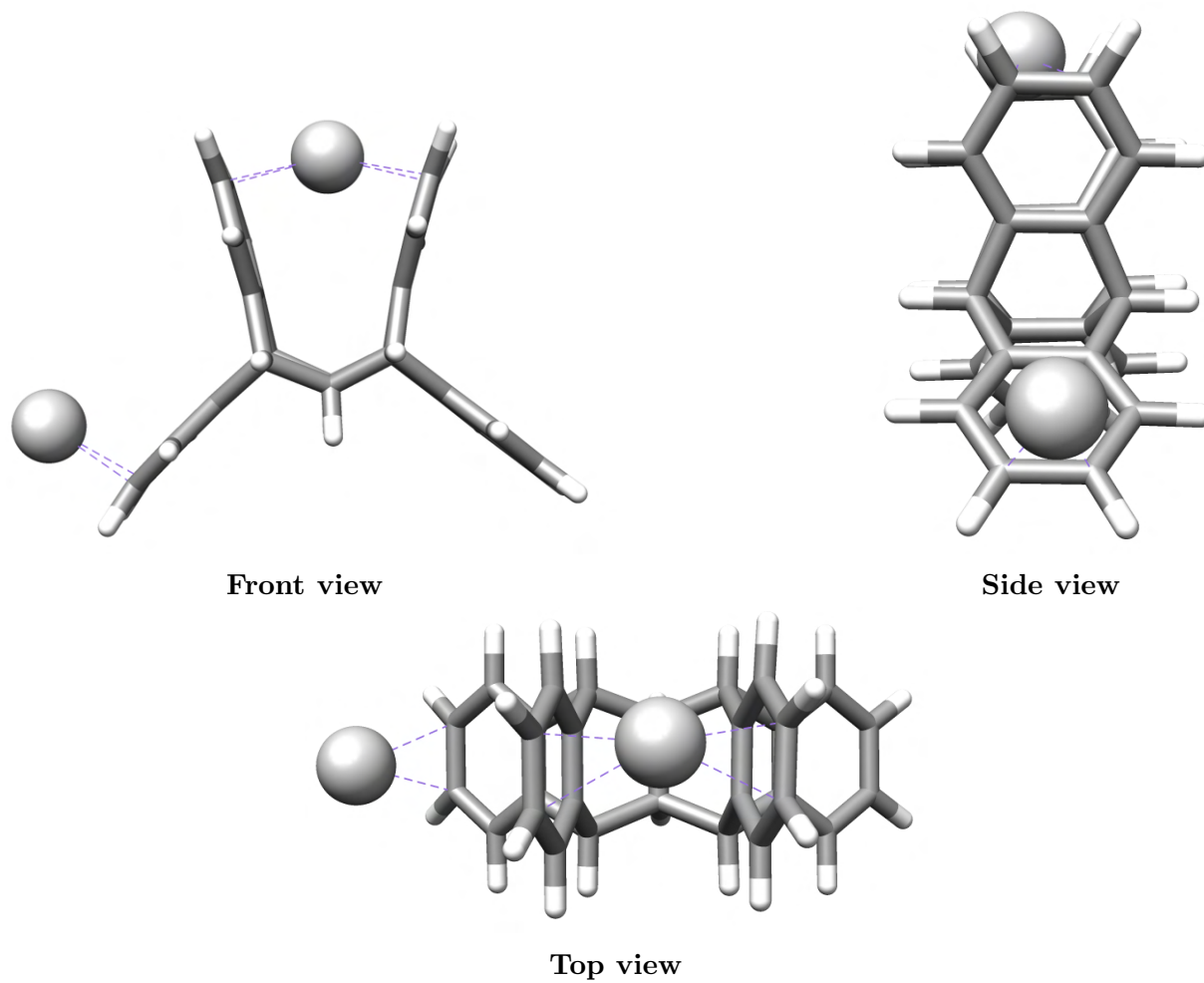


Figure S6: Illustration of system **2b**.

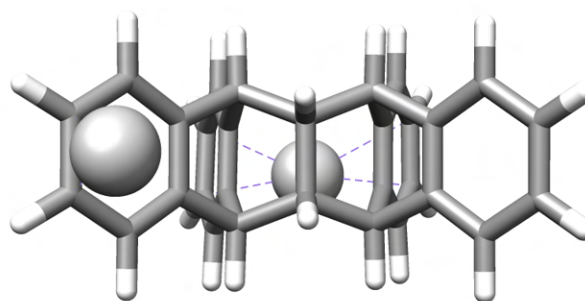
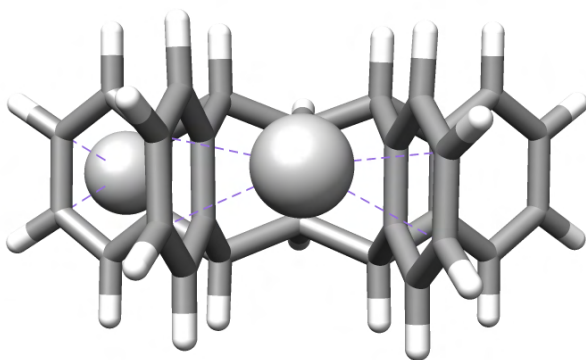
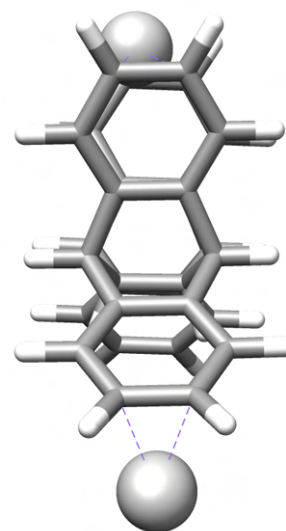
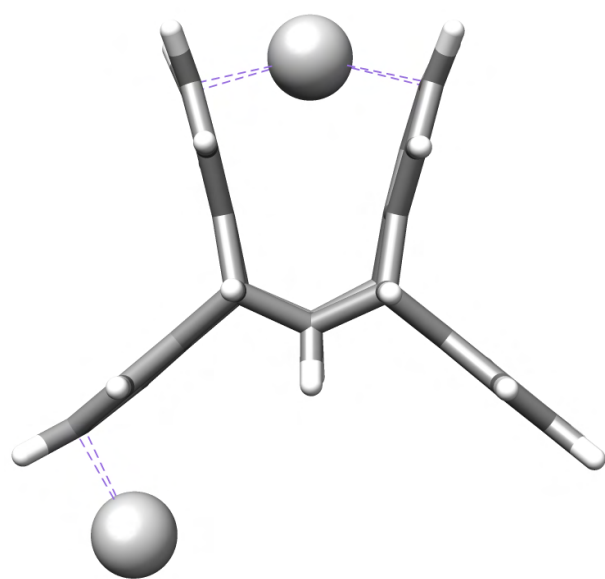


Figure S7: Illustration of system **2c**.

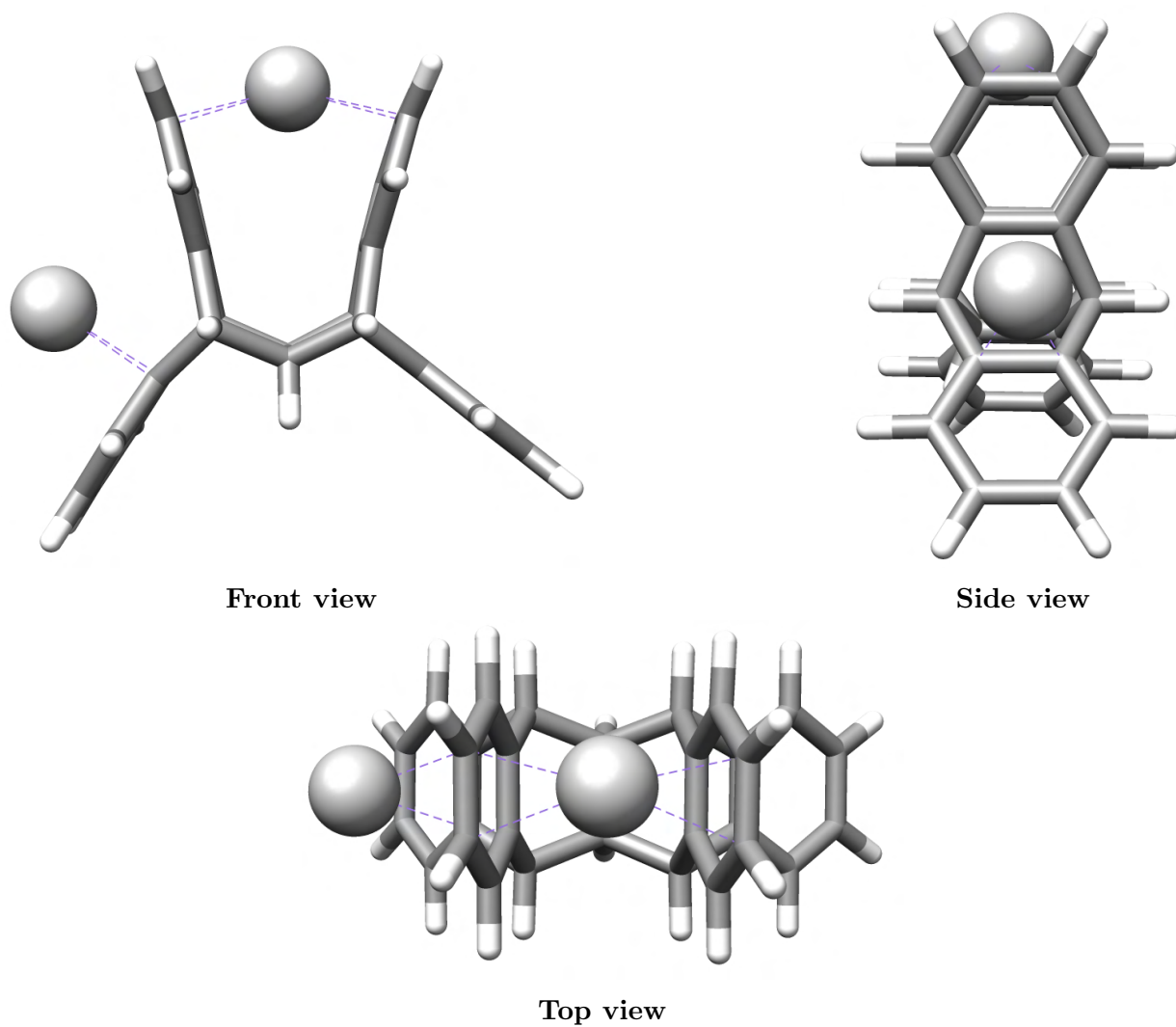


Figure S8: Illustration of system **2d**.

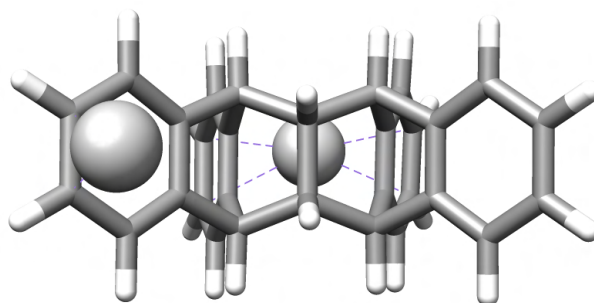
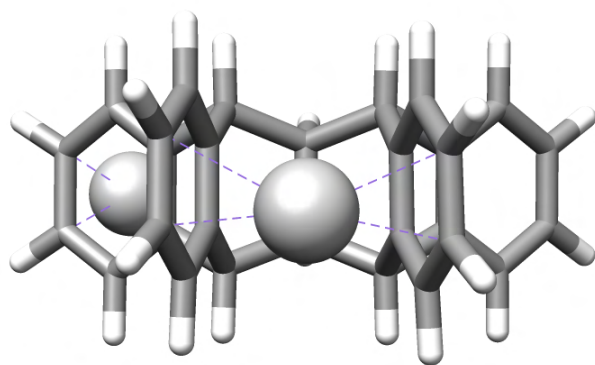
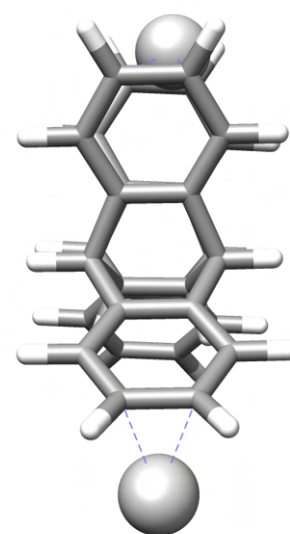
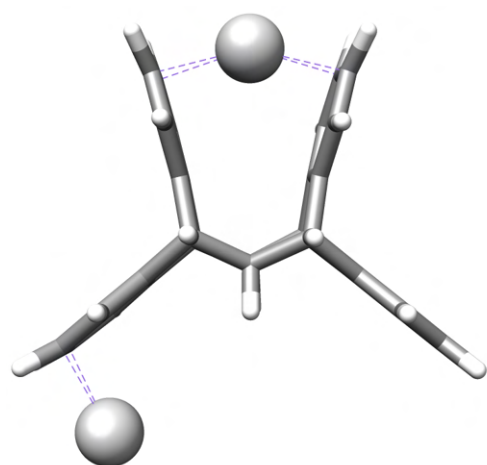
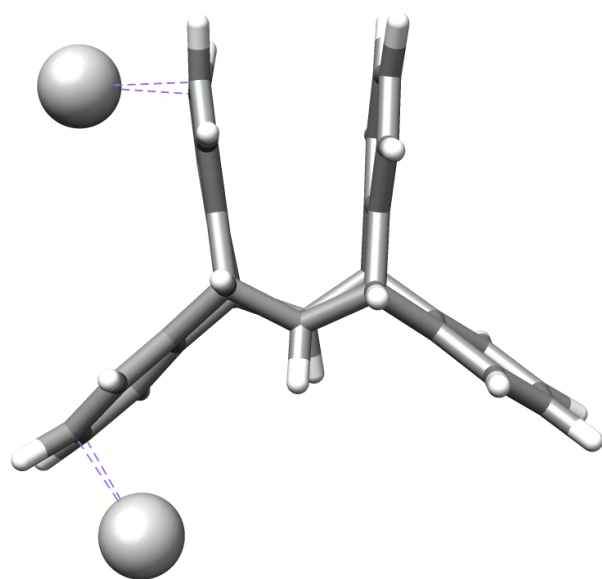
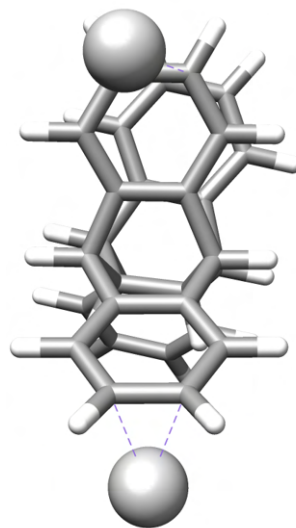


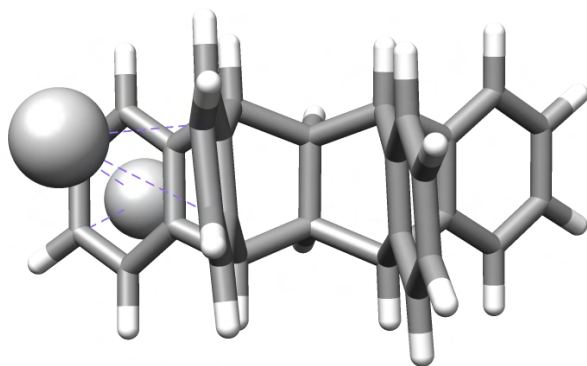
Figure S9: Illustration of system **2e**.



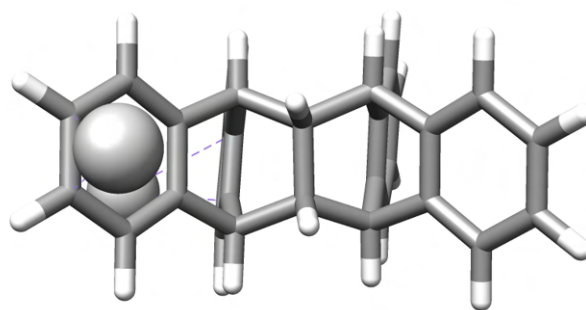
Front view



Side view

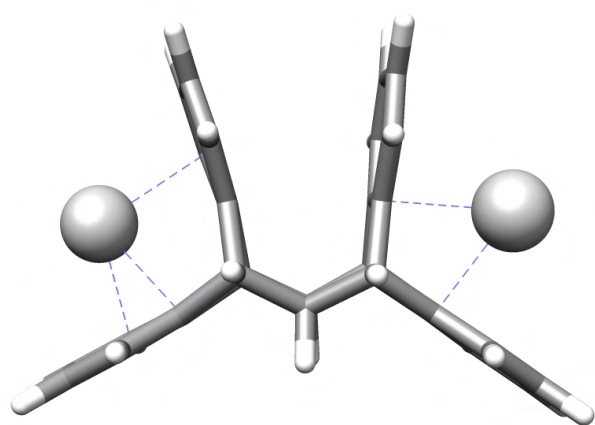


Top view

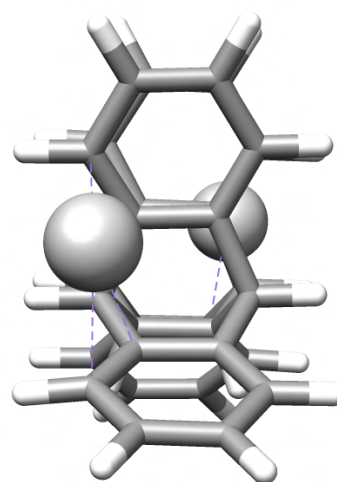


Bottom view

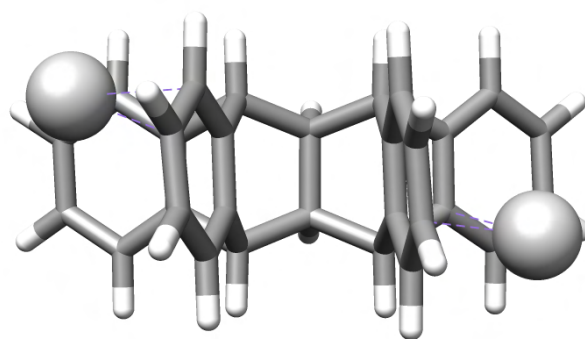
Figure S10: Illustration of system **2f**.



Front view



Side view



Top view

Figure S11: Illustration of system **2g**.

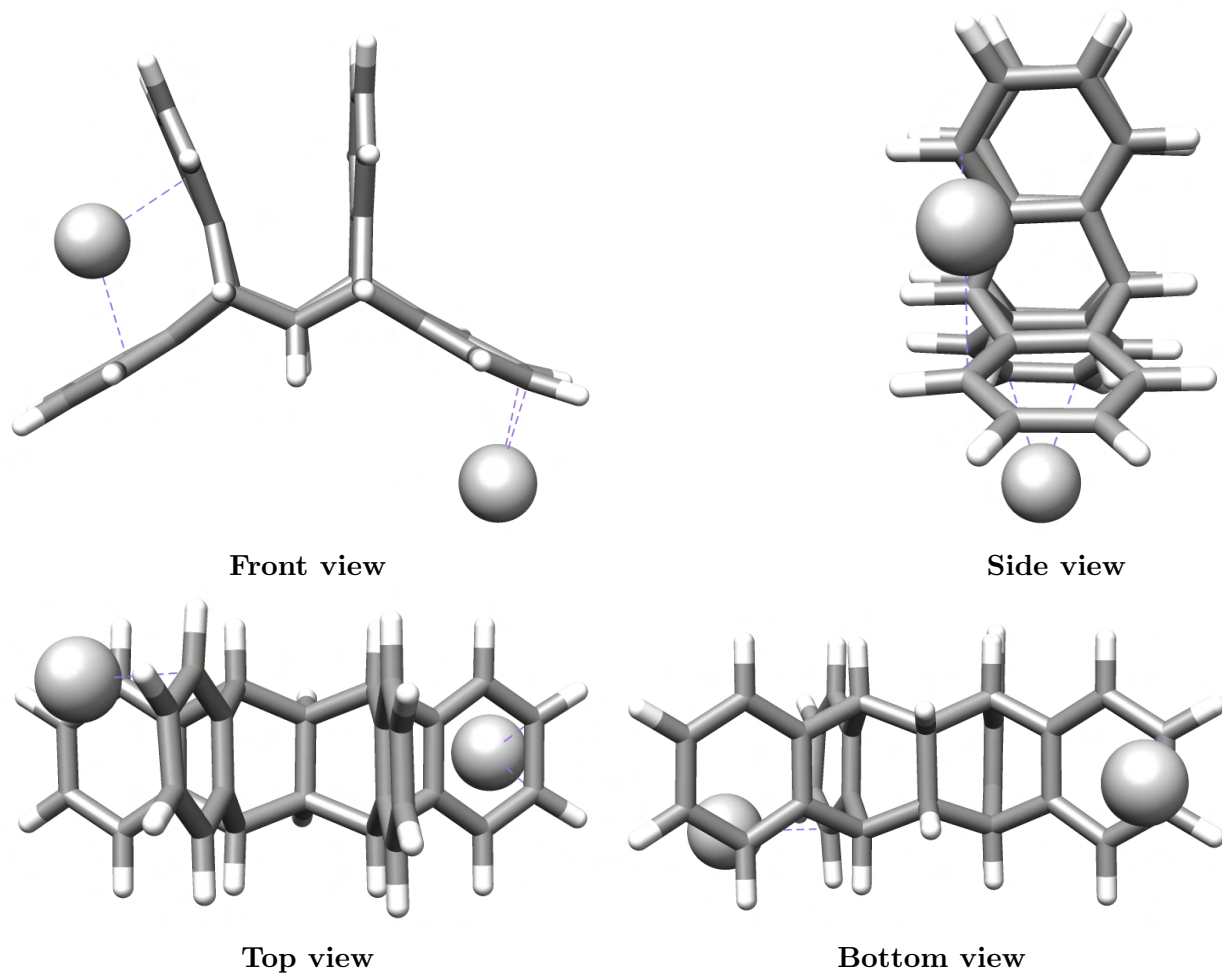


Figure S12: Illustration of system **2h**.

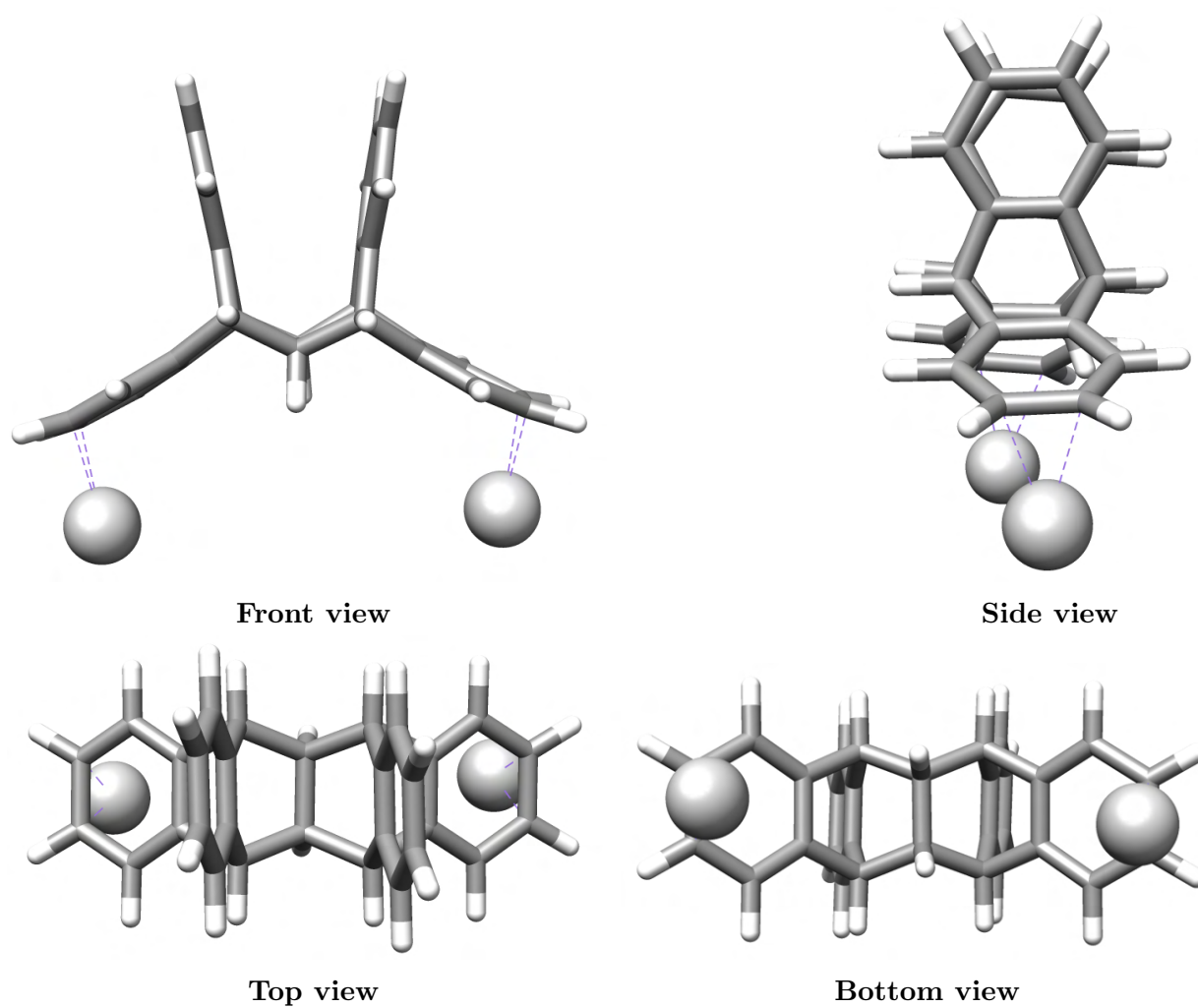


Figure S13: Illustration of system **2i**.

3Ag Systems

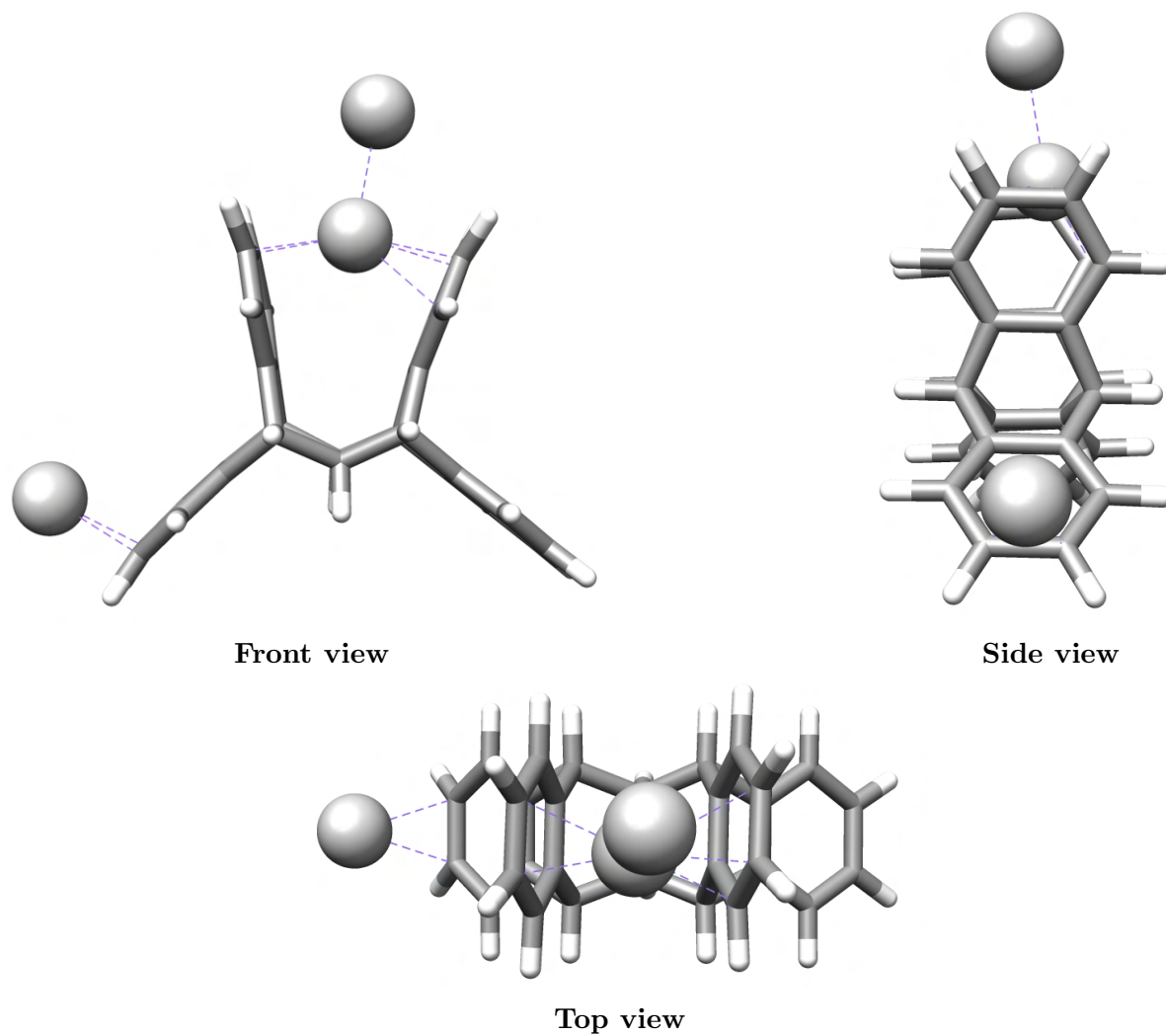
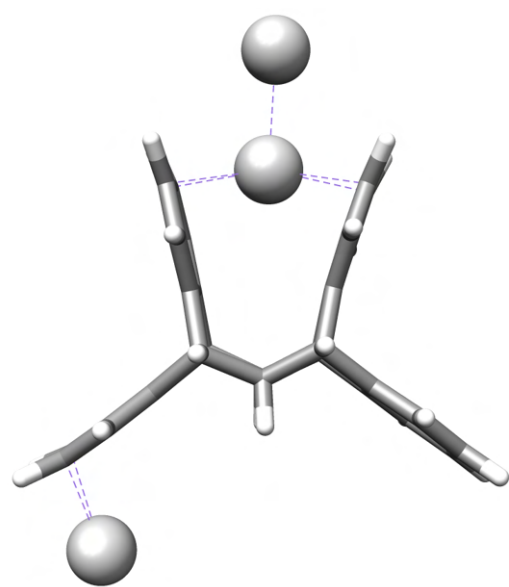
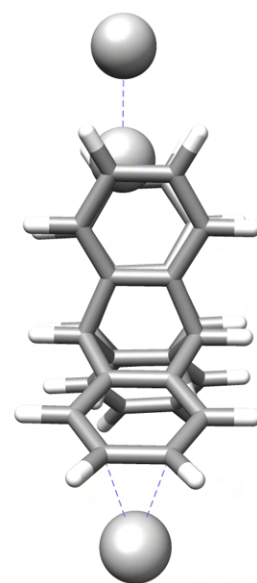


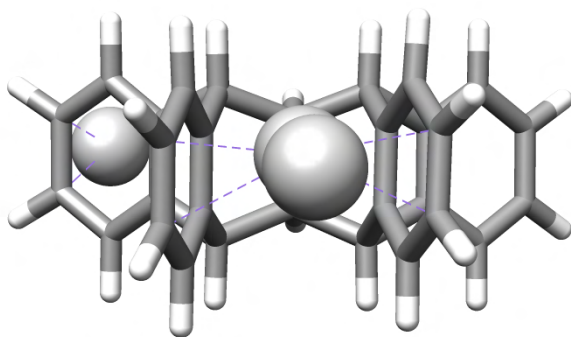
Figure S14: Illustration of system **3a**.



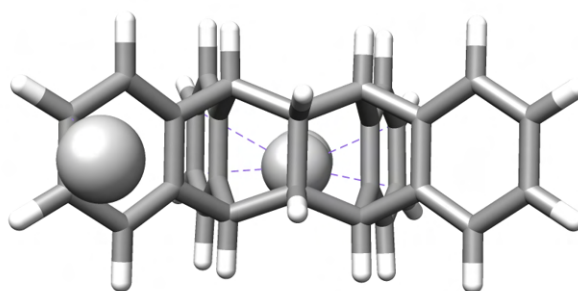
Front view



Side view

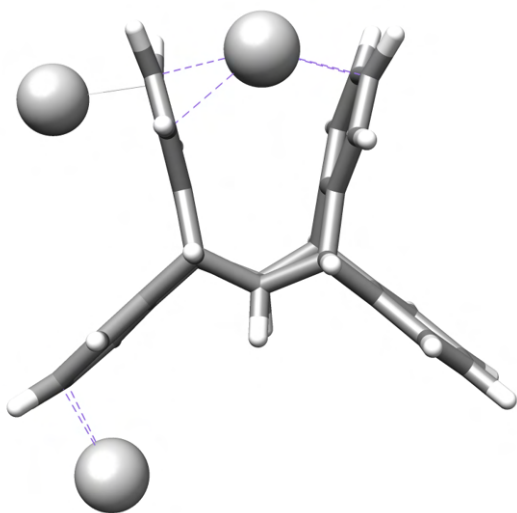


Top view

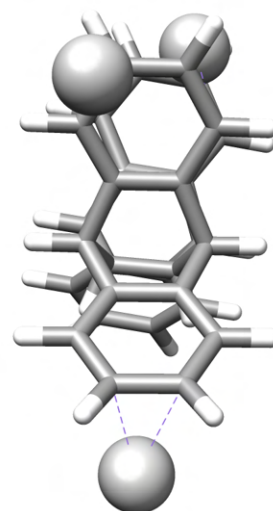


Bottom view

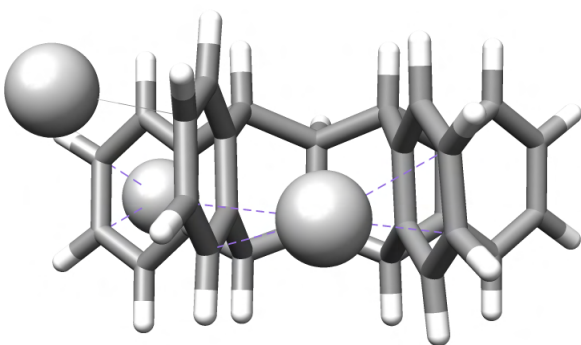
Figure S15: Illustration of system **3b**.



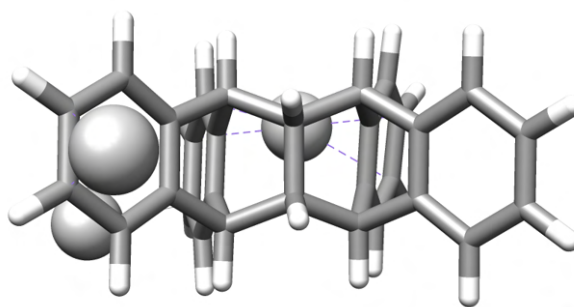
Front view



Side view



Top view



Bottom view

Figure S16: Illustration of system **3c**.

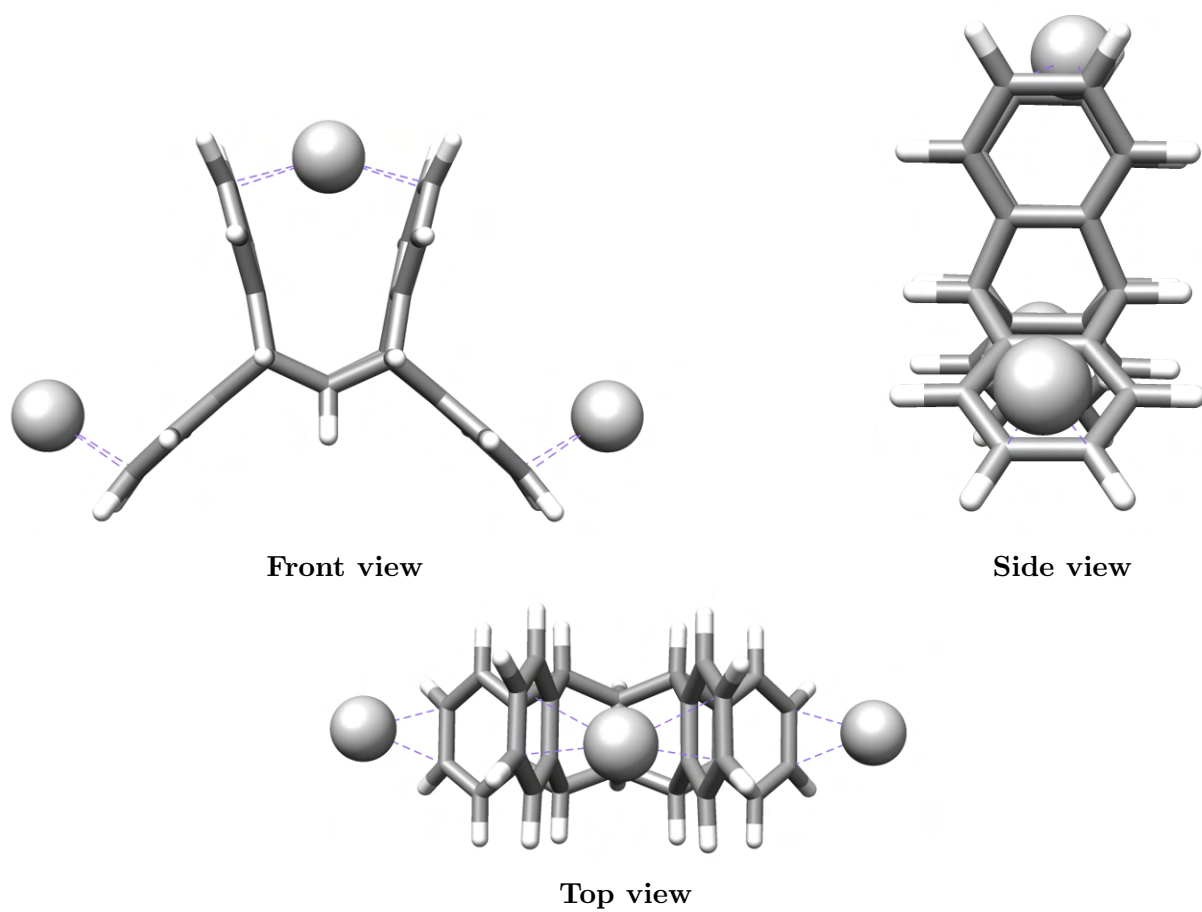


Figure S17: Illustration of system **3d**.

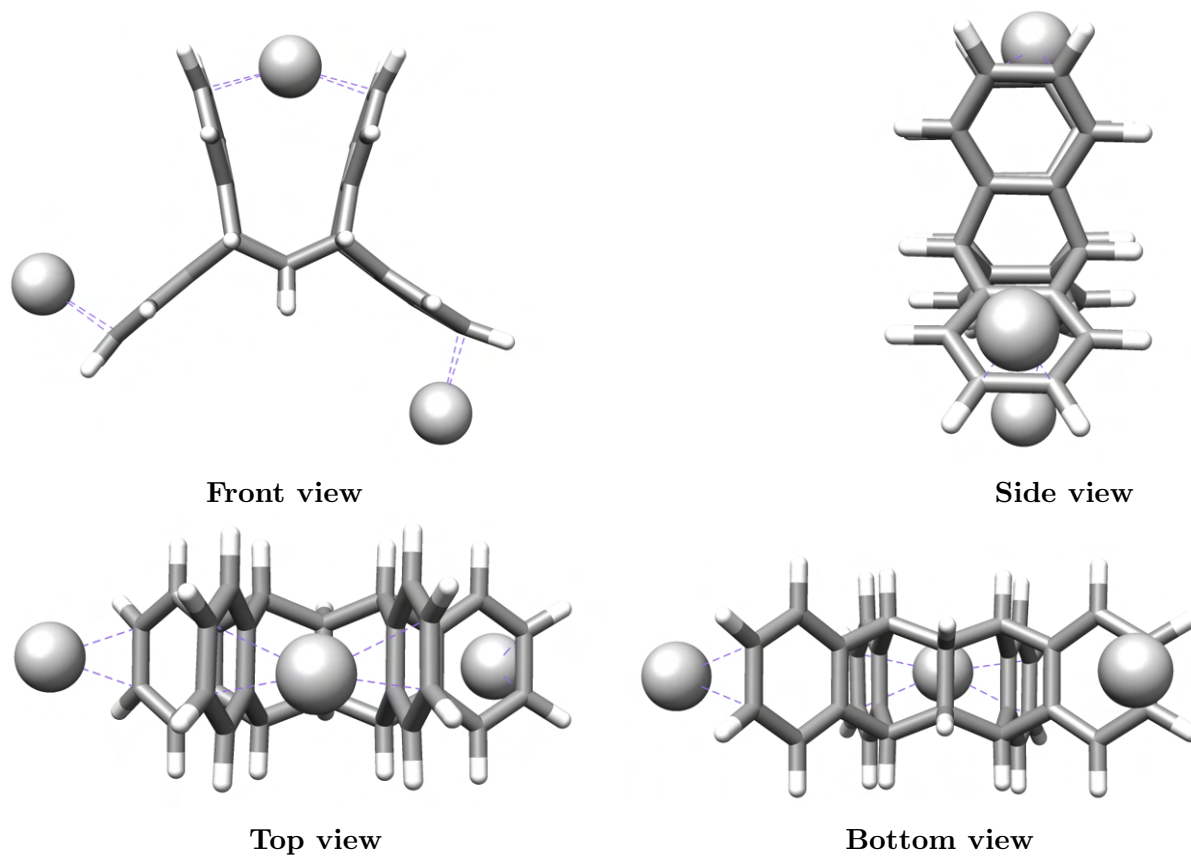
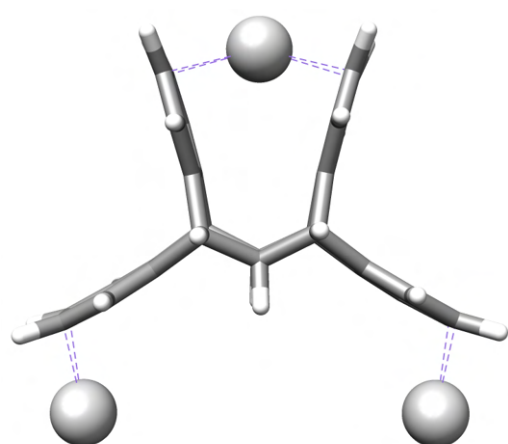
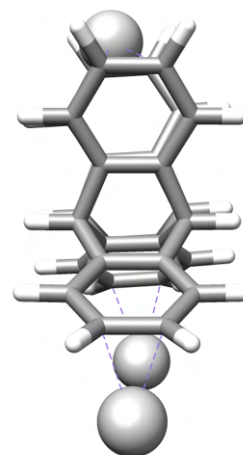


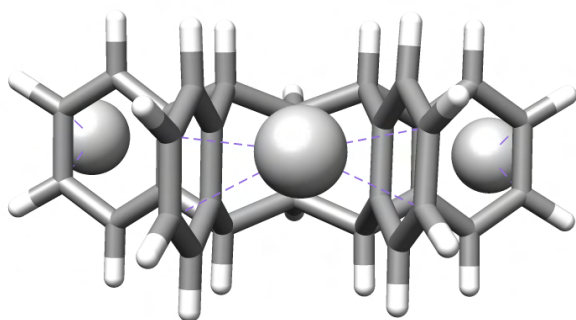
Figure S18: Illustration of system **3e**.



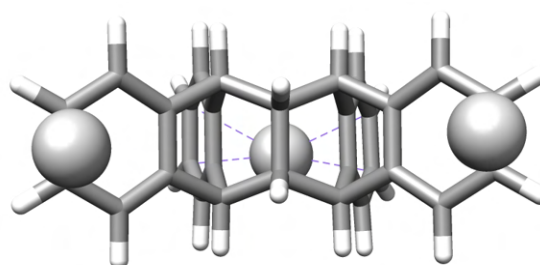
Front view



Side view

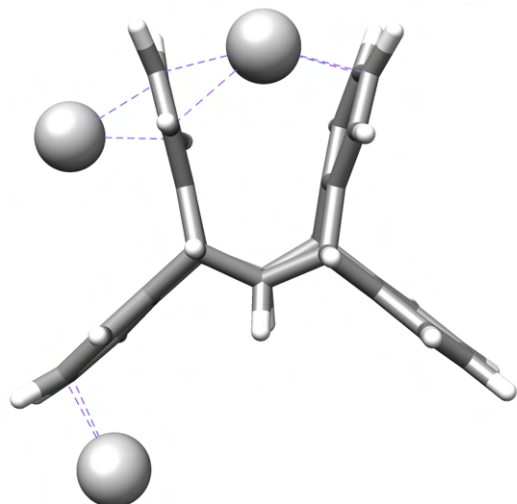


Top view

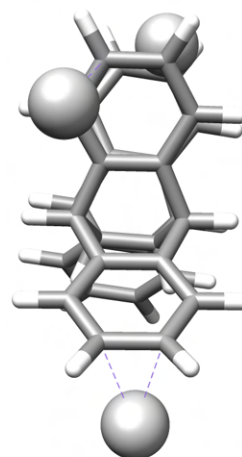


Bottom view

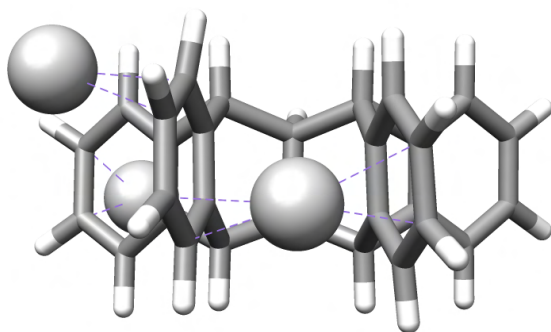
Figure S19: Illustration of system **3f**.



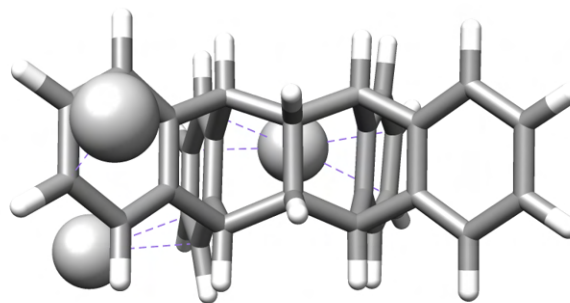
Front view



Side view



Top view



Bottom view

Figure S20: Illustration of system **3g**.

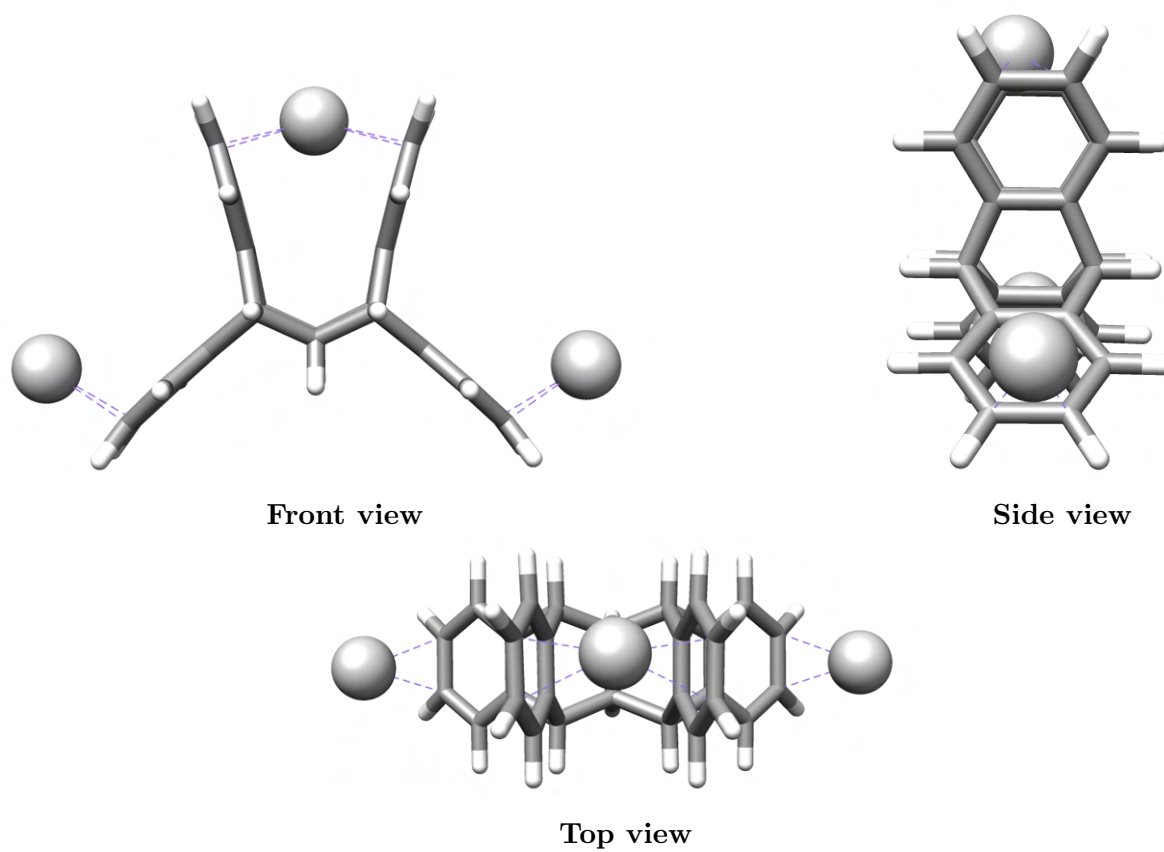


Figure S21: Illustration of system **3h**.

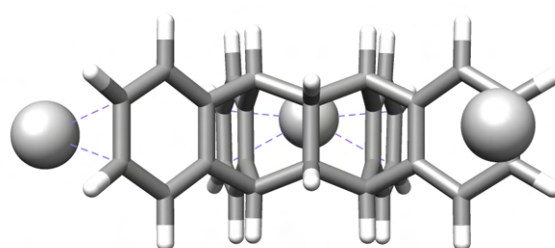
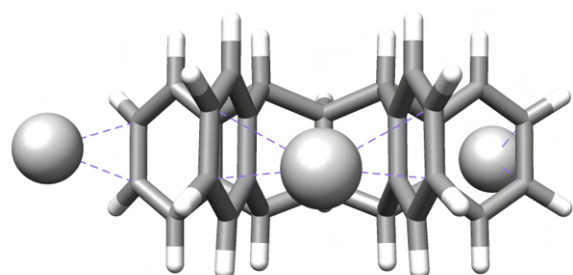
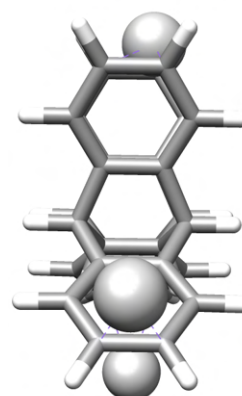
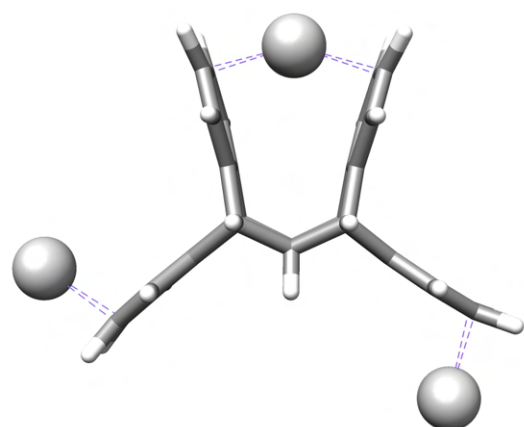
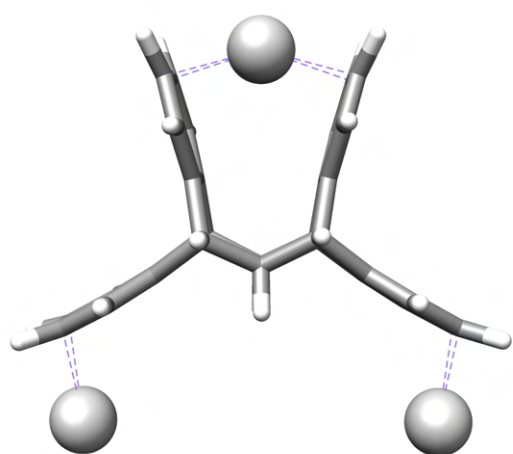
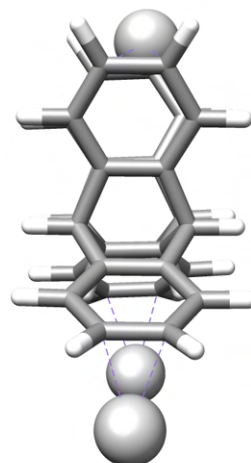


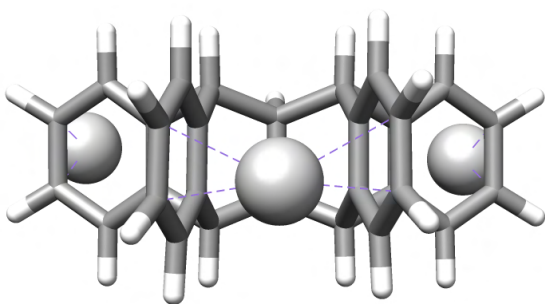
Figure S22: Illustration of system **3i**.



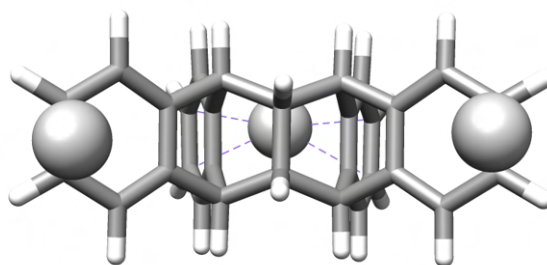
Front view



Side view



Top view



Bottom view

Figure S23: Illustration of system **3j**.

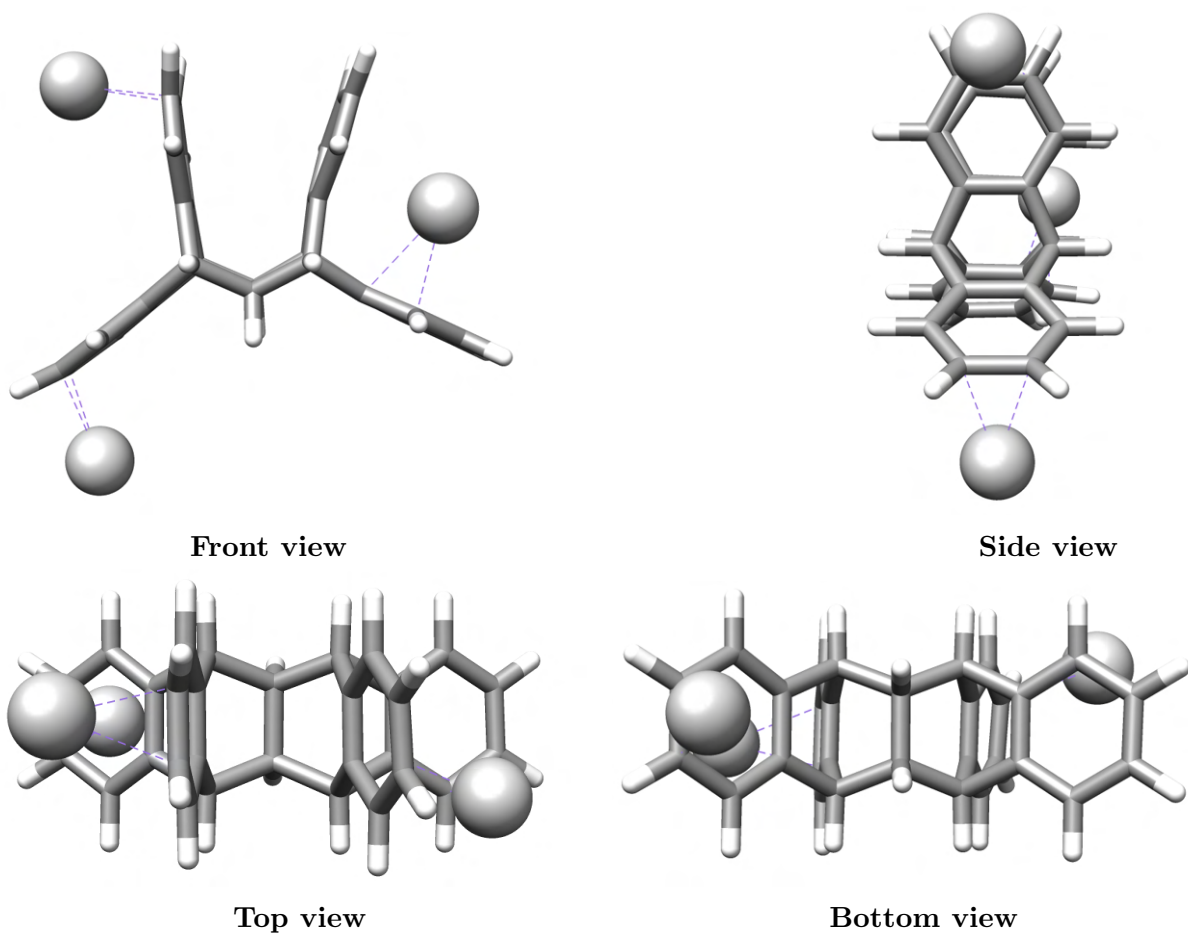


Figure S24: Illustration of system **3k**.

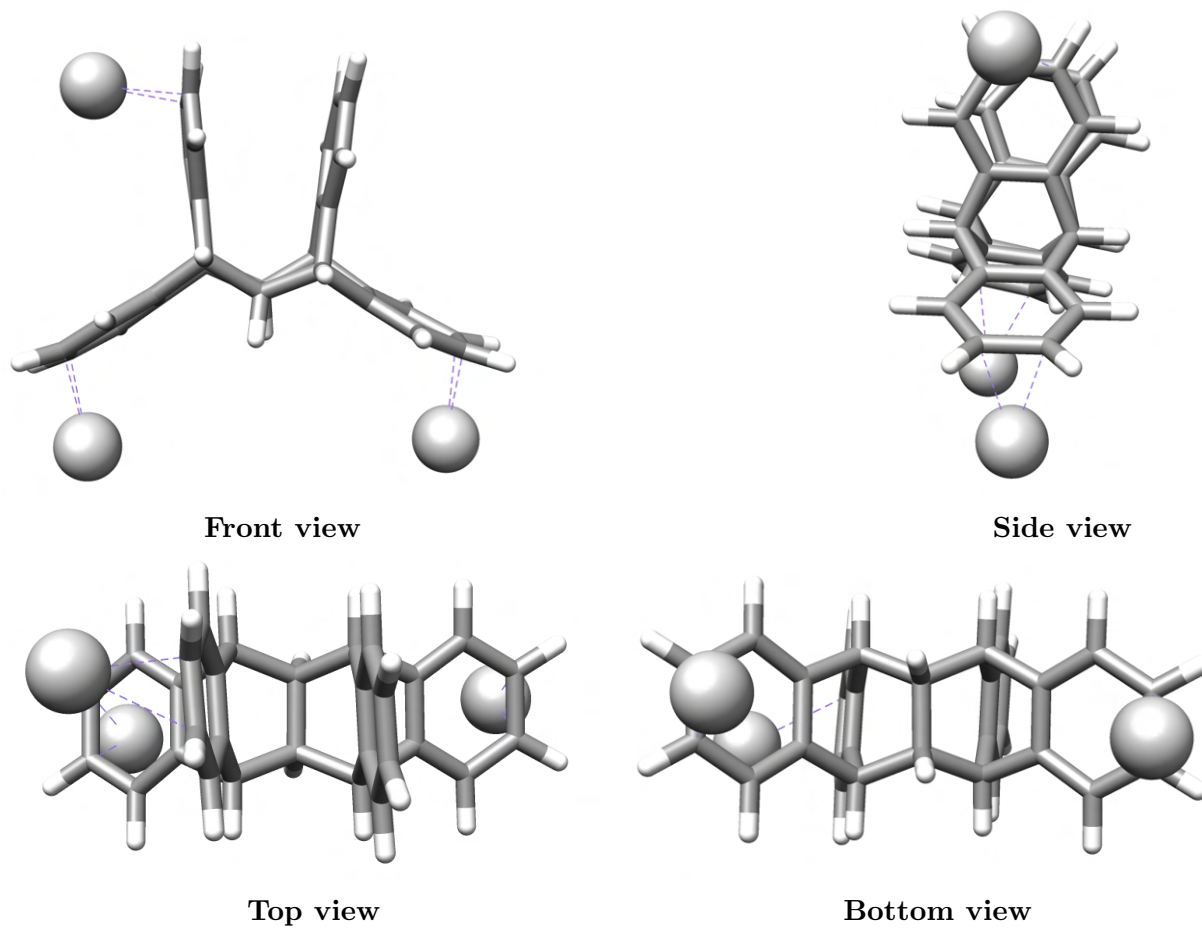
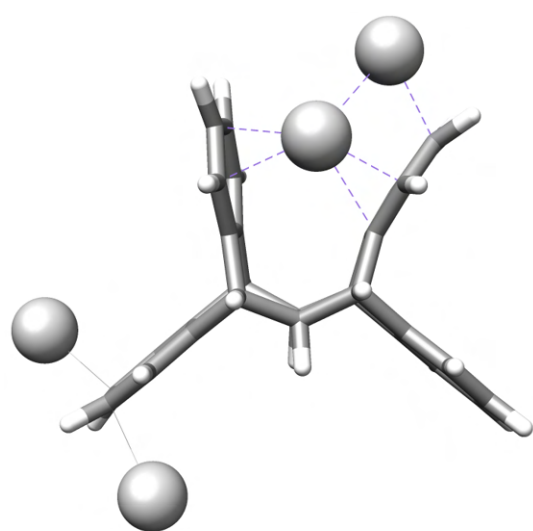
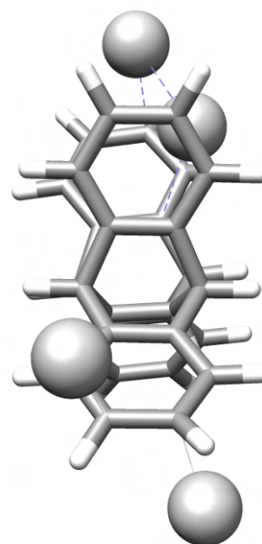


Figure S25: Illustration of system **31**.

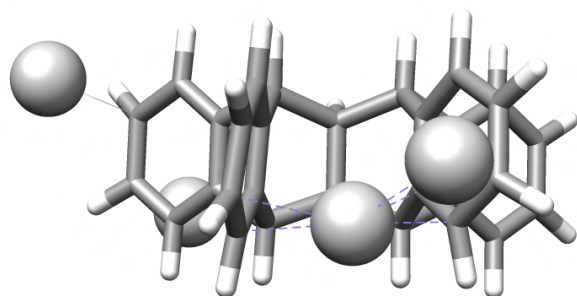
4Ag Systems



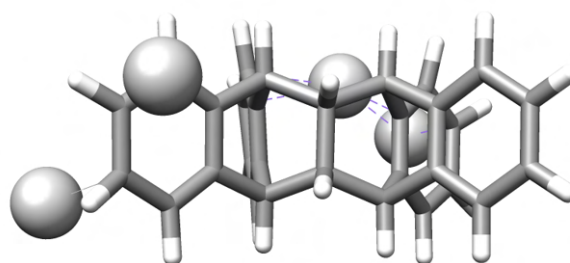
Front view



Side view



Top view



Bottom view

Figure S26: Illustration of system **4a**.

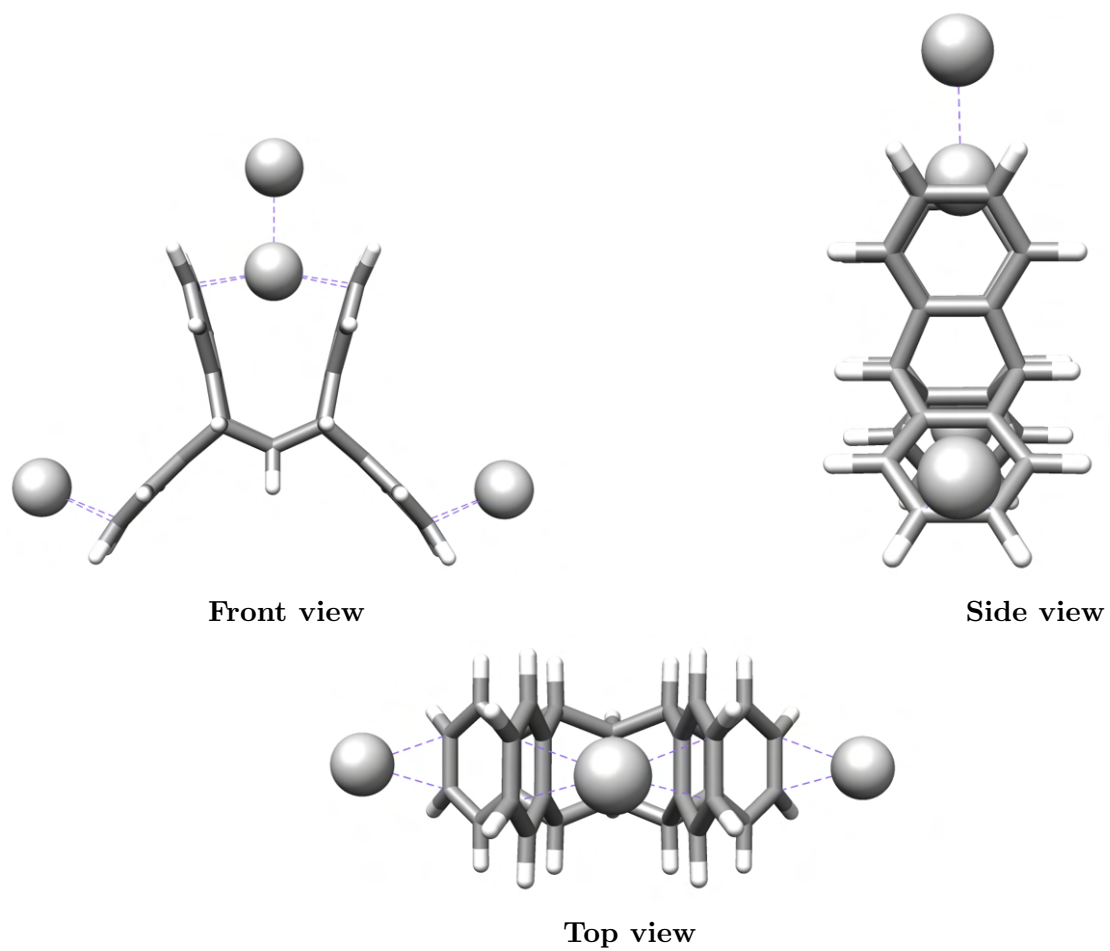


Figure S27: Illustration of system **4b**.

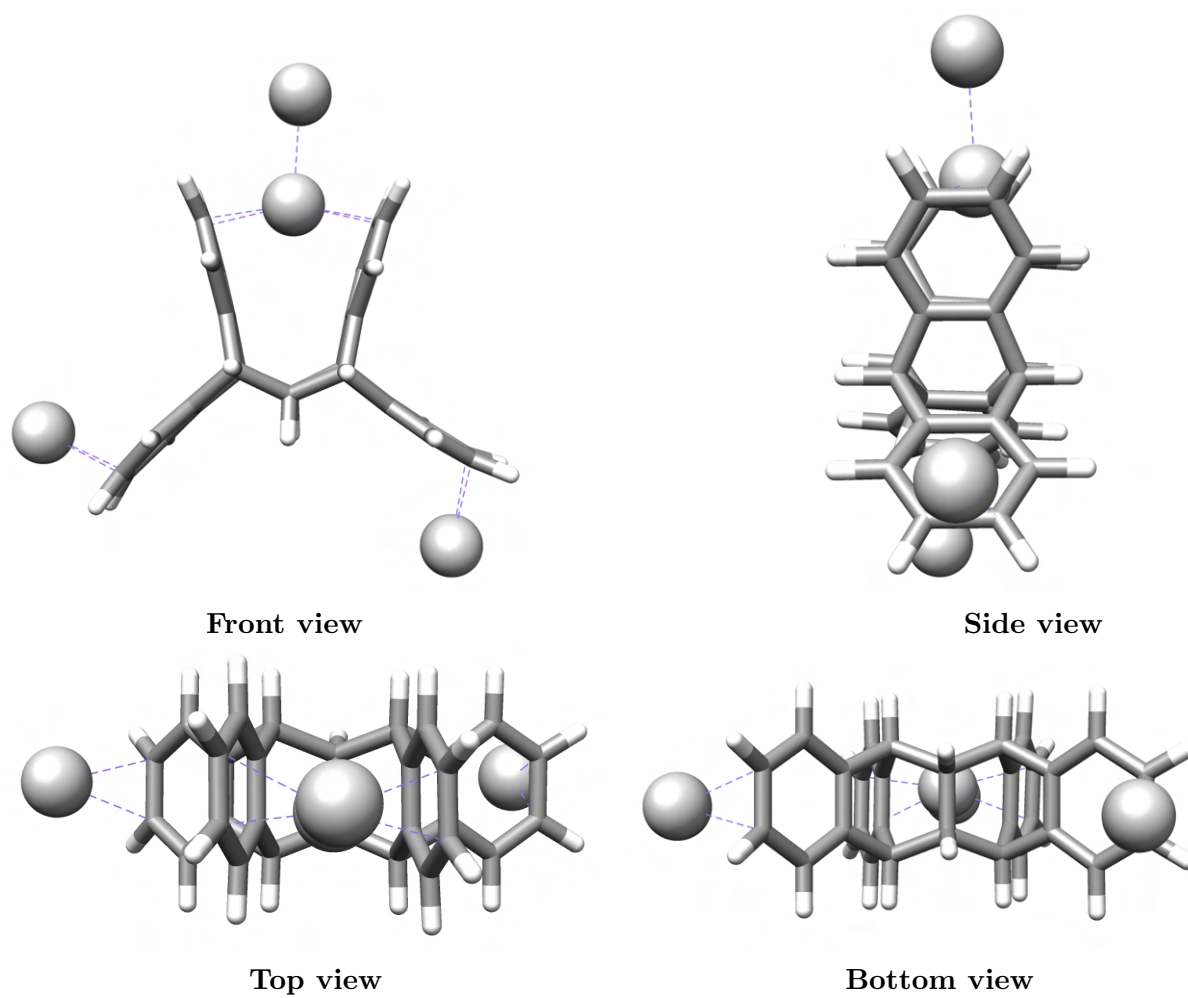


Figure S28: Illustration of system **4c**.

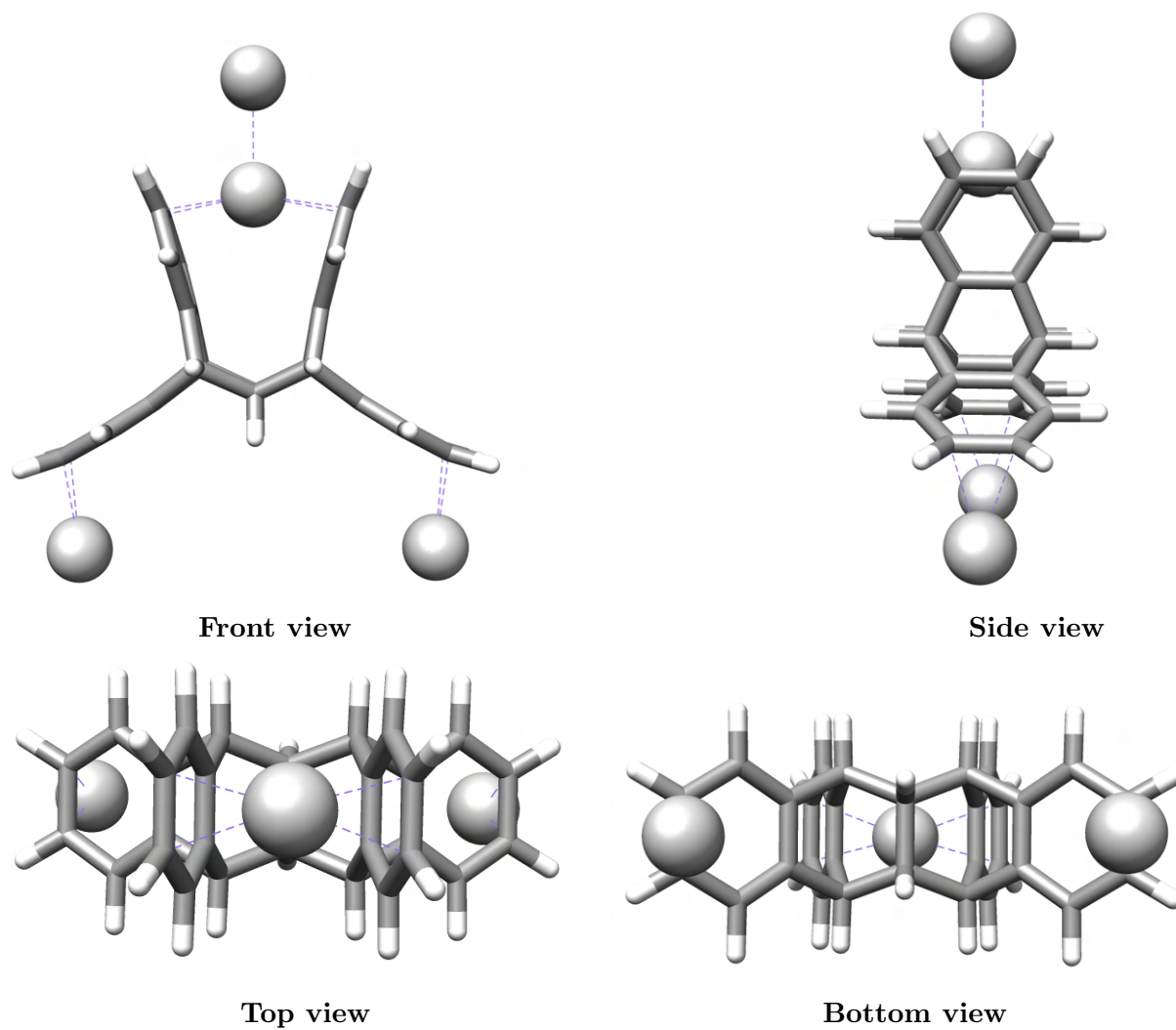


Figure S29: Illustration of system **4d**.

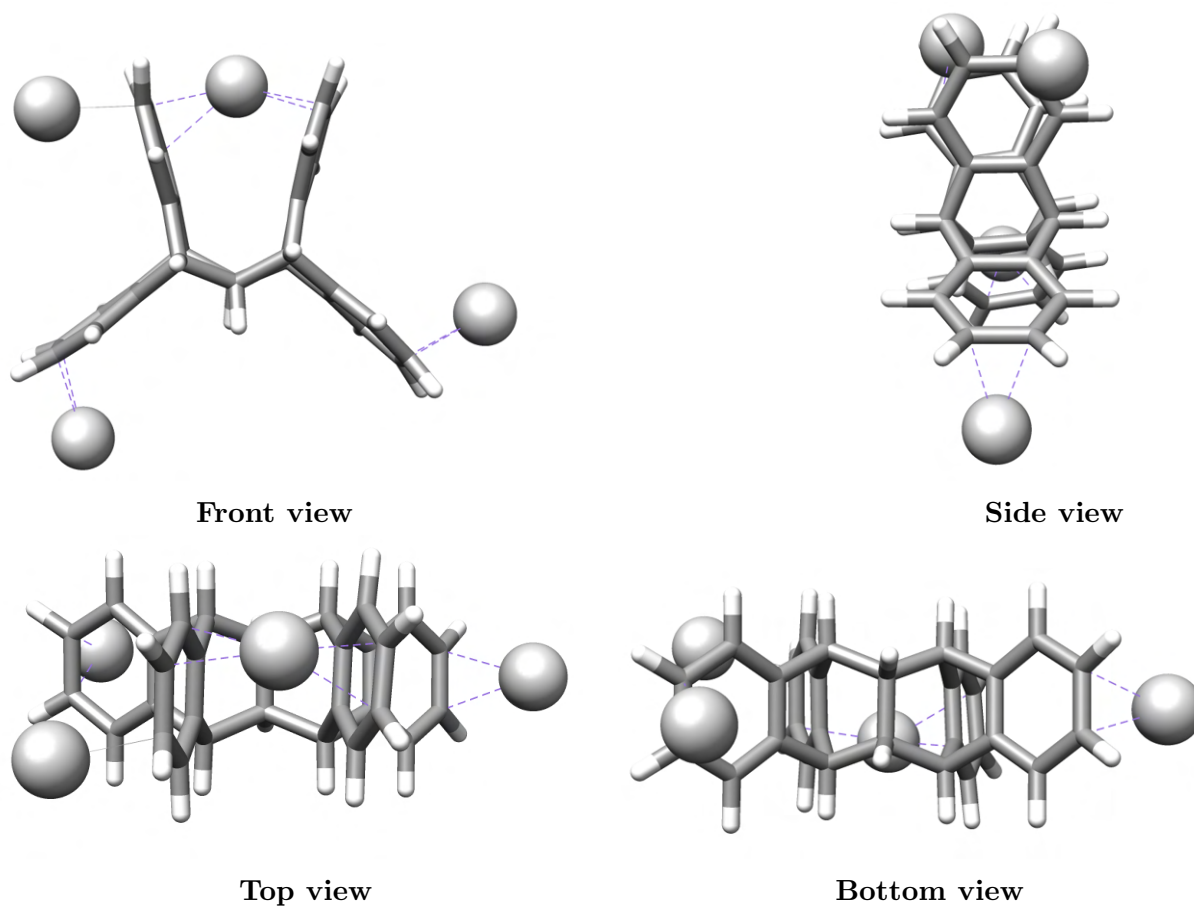


Figure S30: Illustration of system **4e**.

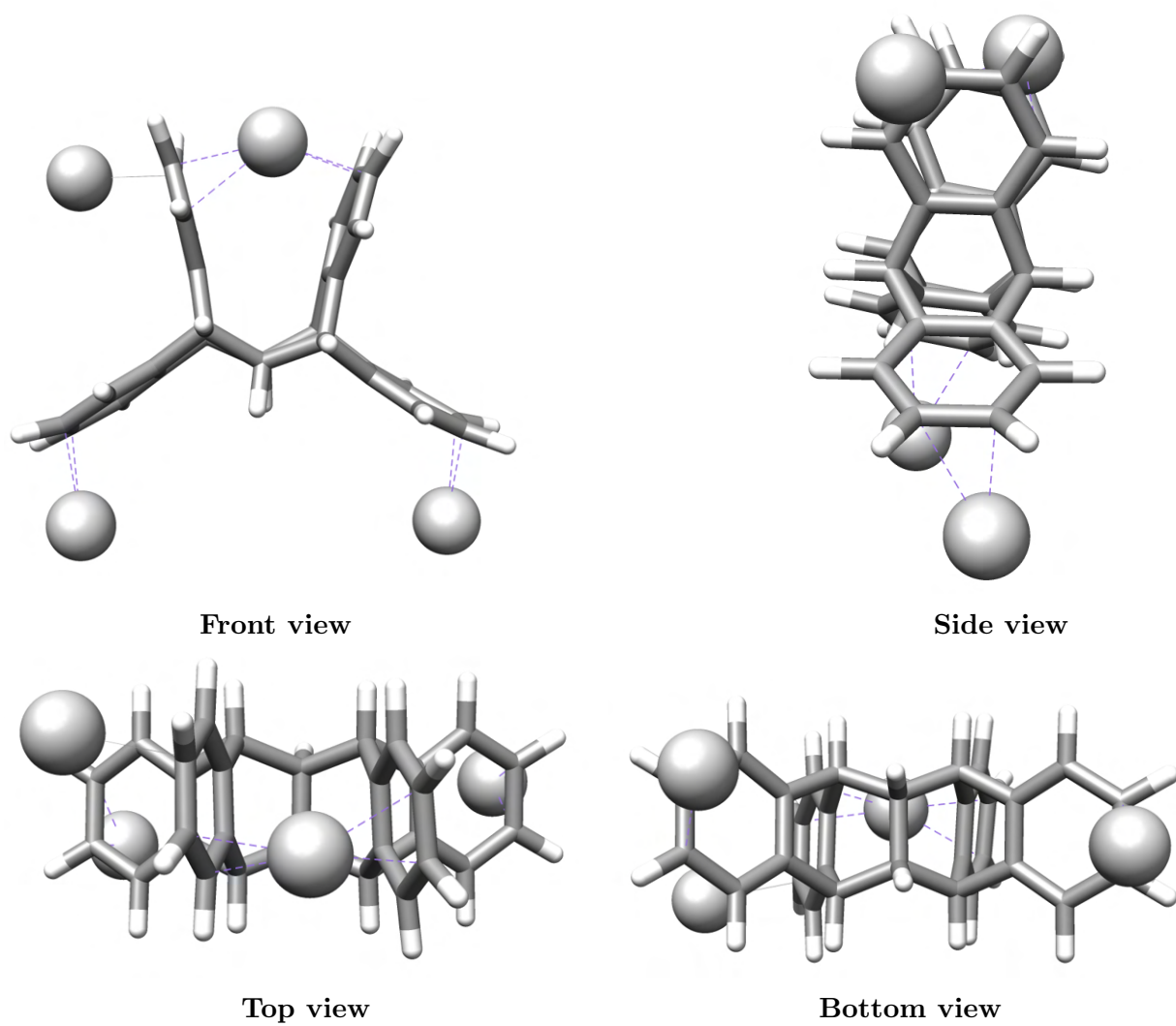


Figure S31: Illustration of system 4f.

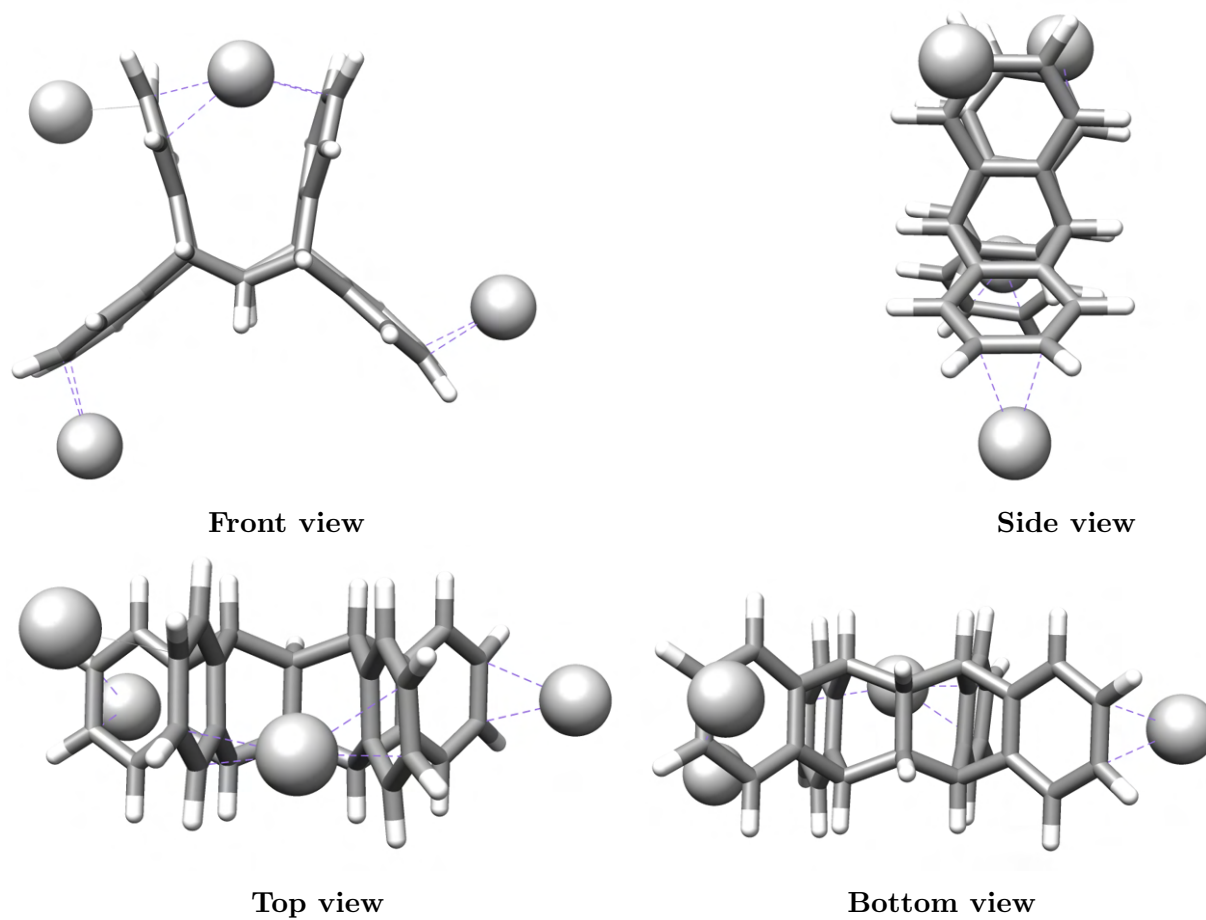
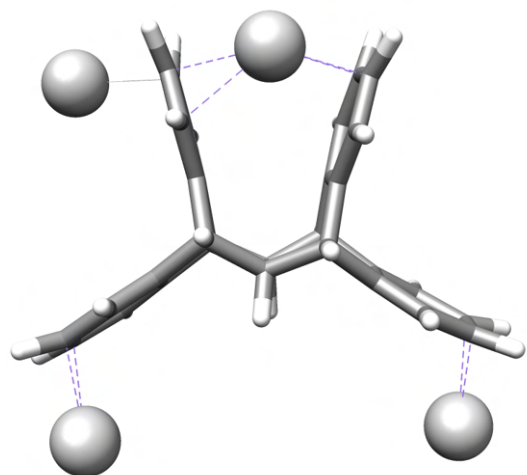
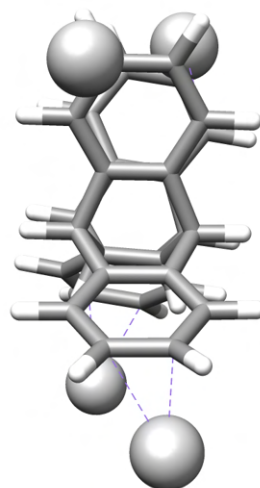


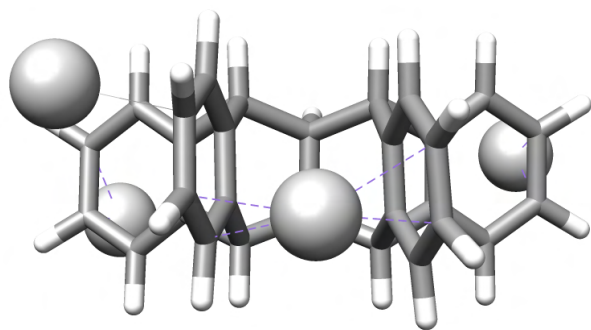
Figure S32: Illustration of system 4g.



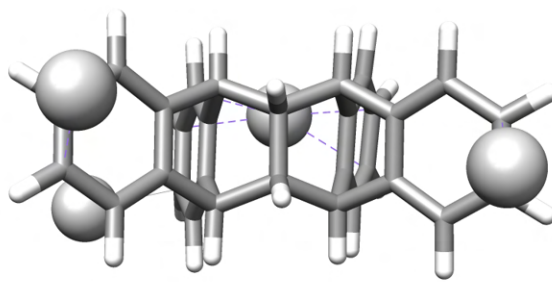
Front view



Side view

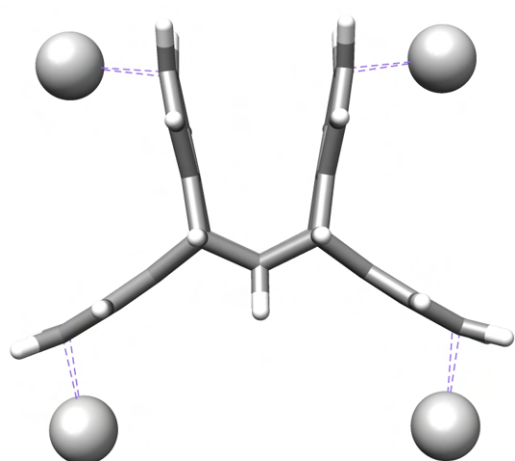


Top view

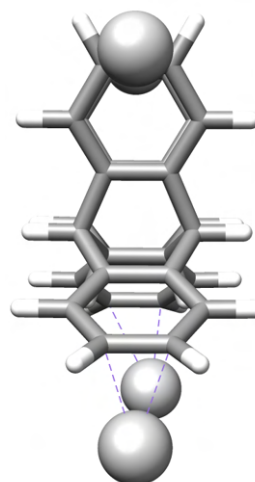


Bottom view

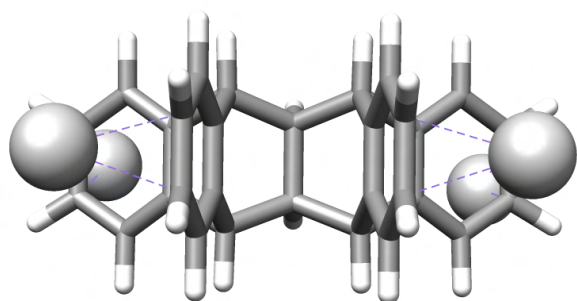
Figure S33: Illustration of system **4h**.



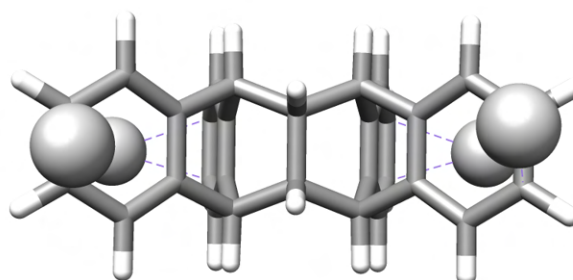
Front view



Side view



Top view



Bottom view

Figure S34: Illustration of system **4i**.

5Ag System

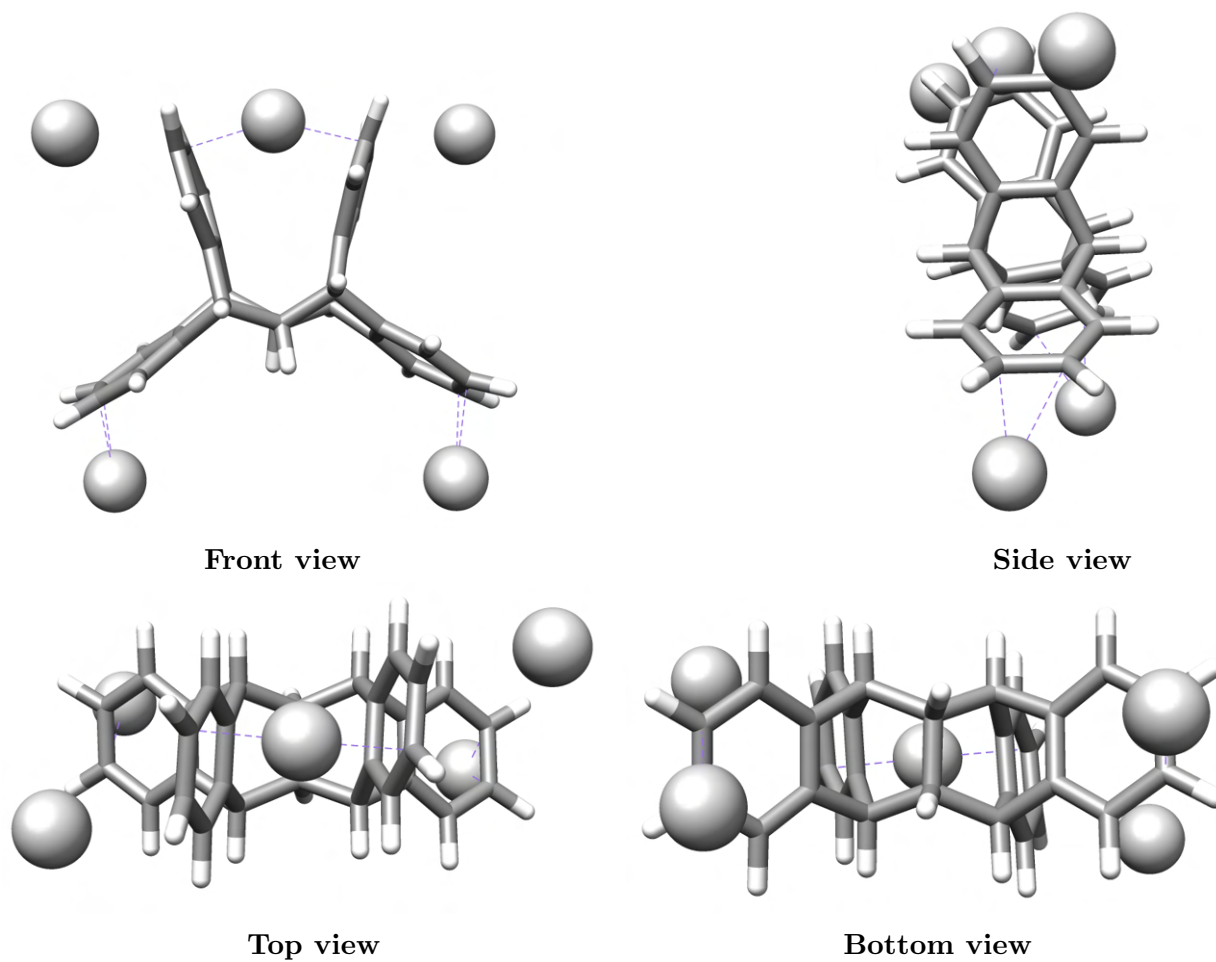


Figure S35: Illustration of system 5.

Geometrical Parameters

Table S1: Geometric parameters for the janusene-Ag⁺ systems. Atoms labeled according to the Figure 2.

1a		1b		1c		1d	
F-F'	3.764	F-F'	3.766	F-F'	3.355	F-F'	3.443
A-F _{β1}	2.405	B-F _{β1}	2.306	C-F _{β1}	3.795	D-L _{β1}	2.971
A-F _{β2}	2.333	B-F _{β2}	2.447	C-F _{β2}	3.357	D-L _{β2}	3.516
A-F' _{β1}	2.532	B-F' _{β1}	2.286	C-L _{β1}	3.846	D-C*	3.013
A-F' _{β2}	2.292	B-F' _{β2}	2.597	C-L _{β2}	3.460	D-C*	3.511
A-C*	4.987	B-C*	4.869				
A-C*	4.895	B-C*	5.006				

Table S2: Geometric parameters for the [janusene-Ag₂]²⁺ systems. Atoms labeled according to the Figure 2.

2a		2b		2c		2d		2e	
F-F'	3.942	F-F'	3.775	F-F'	3.761	F-F'	3.761	F-F'	3.767
A-B	2.806	A-F _{β1}	2.614	A-F _{β1}	2.438	B-F _{β1}	2.434	B-F _{β1}	2.309
A-F _{β1}	2.403	A-F _{β2}	2.302	A-F _{β2}	2.327	B-F _{β2}	2.358	B-F _{β2}	2.585
A-F _{β2}	3.128	A-F' _{β1}	2.470	A-F' _{β1}	2.569	B-F' _{β1}	2.446	B-F' _{β1}	2.332
A-F' _{β1}	2.407	A-F' _{β2}	2.307	A-F' _{β2}	2.290	B-F' _{β2}	2.320	B-F' _{β2}	2.418
A-F' _{β2}	3.136	A-C*	5.035	A-C*	5.034	B-C*	5.019	B-C*	4.932
A-C*	4.448	A-C*	4.895	A-C*	4.914	B-C*	4.957	B-C*	5.041
A-C*	4.917	C-F _{β1}	6.375	D-L _{β1}	2.355	C-F _{β1}	4.065	D-L _{β1}	2.357
B-F _{β1}	3.131	C-F _{β2}	6.395	D-L _{β2}	2.350	C-F _{β2}	4.061	D-L _{β2}	2.347
B-F _{β2}	2.405	C-L _{β1}	2.328	D-C*	5.066	C-L _{β1}	3.417	D-C*	5.064
B-F' _{β1}	3.117	C-L _{β2}	2.386	D-C*	5.108	C-L _{β2}	3.434	D-C*	5.093
B-F' _{β2}	2.393								
B-C*	4.922								
B-C*	4.458								
2f		2g		2h		2i			
F-F'	3.271	F-F'	3.484	F-F'	3.458	F-F'	3.428		
C-F _{β1}	2.662	C-F _{β1}	3.885	C-F _{β1}	3.675	D-L _{β1}	2.327		
C-F _{β2}	2.250	C-F _{β2}	3.283	C-F _{β2}	3.03	D-L _{β2}	2.351		
C-L _{β1}	6.586	C-L _{β1}	3.689	C-L _{β1}	3.792	D-C*	5.378		
C-L _{β2}	6.496	C-L _{β2}	3.071	C-L _{β2}	3.197	D-C*	5.464		
D-L _{β1}	2.371	E-F' _{β1}	3.433	F-L' _{β1}	2.338	F-L' _{β1}	2.355		
D-L _{β2}	2.349	E-F' _{β2}	3.885	F-L' _{β2}	2.352	F-L' _{β2}	2.326		
D-C*	4.882	E-L _{β1}	3.399	F-C*	5.291	F-C*	5.465		
D-C*	5.042	E-L _{β2}	3.842	F-C*	5.247	F-C*	5.376		

Table S3: Geometric parameters for the [janusene-Ag₃]³⁺ systems. Atoms labeled according to the Figure 2.

3a		3b		3c		3d		3e		3f	
F-F'	3.837	F-F'	3.828	F-F'	3.789	F-F'	3.762	F-F'	3.752	F-F'	3.745
A-B	2.731	A-B	2.736	A-F _{β1}	2.333	A-F _{β1}	2.310	A-F _{β1}	2.337	A-F _{β1}	2.610
A-F _{β1}	2.329	A-F _{β1}	2.618	A-F _{β2}	2.919	A-F _{β2}	2.568	A-F _{β2}	2.460	A-F _{β2}	2.309
A-F _{β2}	2.451	A-F _{β2}	2.298	A-F' _{β1}	2.295	A-F' _{β1}	2.312	A-F' _{β1}	2.314	A-F' _{β1}	2.451
A-F' _{β1}	2.284	A-F' _{β1}	2.452	A-F' _{β2}	2.435	A-F' _{β2}	2.510	A-F' _{β2}	2.549	A-F' _{β2}	2.335
A-F' _{β2}	2.654	A-F' _{β2}	2.318	A-C*	4.890	A-C*	4.955	A-C*	4.984	A-C*	5.104
A-C*	4.76 0	A-C*	4.888	A-C*'	5.115	A-C*'	5.090	A-C*'	5.091	A-C*'	4.981
A-C*'	4.897	A-C*'	4.761	C-F _{β1}	2.970	C-F _{β1}	6.377	C-F _{β1}	6.334	D-L _{β1}	2.363
B-F _{β1}	4.163	B-F _{β1}	4.165	C-F _{β2}	2.297	C-F _{β2}	6.372	C-F _{β2}	6.362	D-L _{β2}	2.361
B-F _{β2}	4.060	B-F _{β2}	3.957	C-L _{β1}	6.328	C-L _{β1}	2.393	C-L _{β1}	2.373	D-C*	5.575
B-F' _{β1}	3.467	B-F' _{β1}	3.868	C-L _{β2}	6.070	C-L _{β2}	2.344	C-L _{β2}	2.373	D-C*'	5.539
B-F' _{β2}	3.784	B-F' _{β2}	3.833	D-L _{β1}	2.443	E-F' _{β1}	6.407	F-L' _{β1}	2.361	F-L' _{β1}	2.355
B-C*	7.475	B-C*	7.562	D-L _{β2}	2.334	E-F _{β2}	6.412	F-L _{β2}	2.367	F-L _{β2}	2.365
B-C*'	7.480	B-C*'	7.494	D-C*	5.119	E-L _{β1}	2.402	F-C*	5.441	F-C*	5.523
C-F _{β1}	6.717	D-L _{β1}	2.375	D-C*'	5.174	E-L _{β2}	2.340	F-C*'	5.460	F-C*'	5.574
C-F _{β2}	6.748	D-L _{β2}	2.369								
C-L _{β1}	2.377	D-C*	5.365								
C-L _{β2}	2.368	D-C*'	5.326								
3g		3h		3i		3j		3k		3l	
F-F'	3.777	F-F'	3.758	F-F'	3.759	F-F'	3.739	F-F'	3.546	F-F'	3.317
B-F _{β1}	2.311	B-F _{β1}	2.490	B-F _{β1}	2.312	B-F _{β1}	2.329	C-F _{β1}	2.454	C-F _{β1}	2.619
B-F _{β2}	2.791	B-F _{β2}	2.320	B-F _{β2}	2.575	B-F _{β2}	2.480	C-F _{β2}	2.325	C-F _{β2}	2.272
B-F' _{β1}	2.313	B-F' _{β1}	2.526	B-F' _{β1}	2.308	B-F' _{β1}	2.306	C-L _{β1}	6.529	C-L _{β1}	6.345
B-F' _{β2}	2.410	B-F' _{β2}	2.315	B-F' _{β2}	2.577	B-F' _{β2}	2.589	C-L _{β2}	6.494	C-L _{β2}	6.268
B-C*	4.914	B-C*	5.083	B-C*	4.955	B-C*	4.987	D-L _{β1}	2.364	D-L _{β1}	2.356
B-C*'	5.099	B-C*'	4.969	B-C*'	5.113	B-C*'	5.116	D-L _{β2}	2.380	D-L _{β2}	2.381
C-F _{β1}	3.297	C-F _{β1}	6.391	C-F _{β1}	6.336	D-L _{β1}	2.378	D-C*	5.287	D-C*	5.348
C-F _{β2}	2.505	C-F _{β2}	6.379	C-F _{β2}	6.347	D-L _{β2}	2.344	D-C*'	5.324	D-C*'	5.499
C-L _{β1}	5.685	C-L _{β1}	2.353	C-L _{β1}	2.388	D-C*	5.582	E-F' _{β1}	3.277	F-L' _{β1}	2.343
C-L _{β2}	5.283	C-L _{β2}	2.387	C-L _{β2}	2.358	D-C*'	5.531	E-F _{β2}	3.864	F-L _{β2}	2.358
D-L _{β1}	2.351	E-F' _{β1}	6.405	F-L' _{β1}	2.337	F-L' _{β1}	2.349	E-L _{β1}	3.026	F-C*	5.659
D-L _{β2}	2.424	E-F _{β2}	6.392	F-L _{β2}	2.396	F-L _{β2}	2.365	E-L _{β2}	3.652	F-C*'	5.549
D-C*	5.111	E-L _{β1}	2.365	F-C*	5.427	F-C*	5.529				
D-C*'	5.240	E-L _{β2}	2.370	F-C*'	5.449	F-C*'	5.559				

Table S4: Geometric parameters for the [janusene-Ag₄]⁴⁺ and [janusene-Ag₅]⁵⁺ systems.
Atoms labeled according to the Figure 2.

4a		4b		4c		4d		4e	
F-F'	4.073	F-F'	3.823	F-F'	3.827	F-F'	3.792	F-F'	3.803
A-B	2.853	A-B	2.813	A-B	2.817	A-B	2.822	A-F _{β1}	2.961
A-F _{β1}	2.330	A-F _{β1}	2.349	A-F _{β1}	2.297	A-F _{β1}	2.411	A-F _{β2}	2.362
A-F _{β2}	2.816	A-F _{β2}	2.387	A-F _{β2}	2.570	A-F _{β2}	2.334	A-F' _{β1}	2.501
A-F' _{β1}	2.846	A-F' _{β1}	2.332	A-F' _{β1}	2.351	A-F' _{β1}	2.401	A-F' _{β2}	2.306
A-F _{β2}	3.552	A-F _{β2}	2.403	A-F _{β2}	2.380	A-F _{β2}	2.336	A-C*	5.172
A-C*	4.180	A-C*	4.755	A-C*	4.770	A-C*	4.839	A-C*'	4.922
A-C*'	4.667	A-C*'	4.791	A-C*'	4.855	A-C*'	4.799	C-F _{β1}	2.321
B-F _{β1}	4.388	B-F _{β1}	3.967	B-F _{β1}	4.029	B-F _{β1}	4.041	C-F _{β2}	2.990
B-F _{β2}	4.202	B-F _{β2}	3.965	B-F _{β2}	4.148	B-F _{β2}	3.978	C-L _{β1}	5.982
B-F' _{β1}	2.335	B-F' _{β1}	3.944	B-F' _{β1}	3.949	B-F' _{β1}	4.010	C-L _{β2}	6.243
B-F _{β2}	2.697	B-F _{β2}	3.974	B-F _{β2}	3.840	B-F _{β2}	3.958	D-L _{β1}	2.430
B-C*	6.485	B-C*	7.555	B-C*	7.585	B-C*	7.634	D-L _{β2}	2.385
B-C*'	6.551	B-C*'	7.567	B-C*'	7.588	B-C*'	7.601	D-C*	5.568
C-F _{β1}	6.716	C-F _{β1}	6.756	C-F _{β1}	6.727	D-L _{β1}	2.402	D-C*'	5.444
C-F _{β2}	6.517	C-F _{β2}	6.774	C-F _{β2}	6.671	D-L _{β2}	2.378	E-F' _{β1}	6.599
C-L _{β1}	3.098	C-L _{β1}	2.387	C-L _{β1}	2.452	D-C*	5.695	E-F' _{β2}	6.503
C-L _{β2}	2.365	C-L _{β2}	2.410	C-L _{β2}	2.363	D-C*'	5.686	E-L' _{β1}	2.420
D-L _{β1}	2.362	E-F' _{β1}	6.765	F-L' _{β1}	2.433	F-L' _{β1}	2.373	E-L' _{β2}	2.378
D-L _{β2}	3.077	E-F' _{β2}	6.788	F-L _{β2}	2.364	F-L _{β2}	2.425		
D-C*	5.146	E-L _{β1}	2.375	F-C*	5.643	F-C*	5.686		
D-C*'	5.449	E-L _{β2}	2.430	F-C*'	5.564	F-C*'	5.714		
4f		4g		4h		4i		5	
F-F'	3.779	F-F'	3.907	F-F'	3.780	F-F'	3.565	F-F'	3.958
A-F _{β1}	2.364	B-F _{β1}	2.361	B-F _{β1}	2.357	C-F _{β1}	2.425	A-F _{β1}	2.739
A-F _{β2}	2.972	B-F _{β2}	2.994	B-F _{β2}	2.957	C-F _{β2}	2.378	A-F _{β2}	2.338
A-F' _{β1}	2.310	B-F' _{β1}	2.296	B-F' _{β1}	2.303	C-L _{β1}	6.176	A-F' _{β1}	2.339
A-F _{β2}	2.473	B-F _{β2}	2.554	B-F _{β2}	2.450	C-L _{β2}	6.159	A-F _{β2}	2.778
A-C*	4.963	B-C*	4.862	B-C*	4.936	D-L _{β1}	2.398	A-C*	5.053
A-C*'	5.204	B-C*'	5.144	B-C*'	5.186	D-L _{β2}	2.380	A-C*'	5.064
C-F _{β1}	2.976	C-F _{β1}	2.968	C-F _{β1}	2.991	D-C*	5.629	C-F _{β1}	2.694
C-F _{β2}	2.321	C-F _{β2}	2.319	C-F _{β2}	2.322	D-C*'	5.622	C-F _{β2}	3.350
C-L _{β1}	6.178	C-L _{β1}	6.257	C-L _{β1}	6.204	E-F' _{β1}	2.409	C-L _{β1}	6.445
C-L _{β2}	5.928	C-L _{β2}	6.000	C-L _{β2}	5.946	E-F _{β2}	2.389	C-L _{β2}	6.671
D-L _{β1}	2.309	D-L _{β1}	2.384	D-L _{β1}	2.315	E-L _{β1}	6.160	D-L _{β1}	2.655
D-L _{β2}	2.649	D-L _{β2}	2.427	D-L _{β2}	2.654	E-L _{β2}	6.157	D-L _{β2}	2.352
D-C*	5.495	D-C*	5.447	D-C*	5.502	F-L _{β1}	2.315	D-C*	6.001
D-C*'	5.768	D-C*'	5.563	D-C*'	5.765	F-L _{β2}	2.577	D-C*'	5.679
F-L' _{β1}	2.426	E-F' _{β1}	6.523	F-L' _{β1}	2.440	F-C*	5.614	E-F' _{β1}	3.434
F-L _{β2}	2.355	E-F _{β2}	6.618	F-L _{β2}	2.358	F-C*'	5.730	E-F _{β2}	2.775
F-C*	5.814	E-L _{β1}	2.379	F-C*	5.837			E-L _{β1}	6.855
F-C*'	5.668	E-L _{β2}	2.413	F-C*'	5.694			E-L _{β2}	6.623
								F-L' _{β1}	2.438
								F-L _{β2}	2.433
								F-C*	5.664
								F-C*'	5.853

Atomic Charges

Table S5: Atomic charges from Natural Population Analysis (NPA) for the janusene-Ag⁺ systems. Values in a.u.

Fragment	1a	1b	1c	1d
Janusene	0.168	0.169	0.112	0.163
Ag ⁺	0.832	0.831	0.888	0.837

Table S6: Atomic charges from Natural Population Analysis (NPA) for the [janusene-Ag₂]²⁺ systems. Values in a.u.

2a		2b		2c		2d		2e	
Janusene	0.326	Janusene	0.291	Janusene	0.287	Janusene	0.216	Janusene	0.288
A	0.837	A	0.847	A	0.849	B	0.854	B	0.848
B	0.837	C	0.862	D	0.864	C	0.930	D	0.864
2f		2g		2h		2i			
Janusene	0.341	Janusene	0.198	Janusene	0.282	Janusene	0.351		
C	0.804	C	0.880	C	0.867	D	0.825		
D	0.855	E	0.922	F	0.851	F	0.824		

Table S7: Atomic charges from Natural Population Analysis (NPA) for the [janusene-Ag₃]³⁺ systems. Values in a.u.

3a		3b		3c		3d		3e		3f	
Janusene	0.794	Janusene	0.784	Janusene	0.346	Janusene	0.356	Janusene	0.364	Janusene	0.383
A	0.648	A	0.660	A	0.871	A	0.865	A	0.865	A	0.866
B	0.667	B	0.666	C	0.888	C	0.890	C	0.890	D	0.875
C	0.891	D	0.890	D	0.895	E	0.889	F	0.881	F	0.876
3g		3h		3i		3j		3k		3l	
Janusene	0.342	Janusene	0.355	Janusene	0.365	Janusene	0.382	Janusene	0.324	Janusene	0.402
B	0.871	B	0.865	B	0.864	B	0.866	C	0.891	C	0.857
C	0.889	C	0.890	C	0.890	D	0.876	D	0.891	D	0.879
D	0.898	E	0.890	F	0.881	F	0.876	E	0.894	F	0.862

Table S8: Atomic charges from Natural Population Analysis (NPA) for the [janusene-Ag₄]⁴⁺ and [janusene-Ag₅]⁵⁺ systems. Values in a.u.

4a		4b		4c		4d		4e	
Janusene	0.525	Janusene	0.653	Janusene	0.660	Janusene	0.664	Janusene	0.363
A	0.787	A	0.677	A	0.671	A	0.673	A	0.887
B	0.828	B	0.842	B	0.845	B	0.850	C	0.924
C	0.931	C	0.914	C	0.913	D	0.907	D	0.914
D	0.929	E	0.914	F	0.911	F	0.906	E	0.912
4f		4g		4h		4i		5	
Janusene	0.386	Janusene	0.364	Janusene	0.388	Janusene	0.380	Janusene	0.355
A	0.888	B	0.888	B	0.888	C	0.912	A	0.891
C	0.922	C	0.922	C	0.922	D	0.901	C	0.954
D	0.904	D	0.914	D	0.903	E	0.912	D	0.920
F	0.900	E	0.912	F	0.899	F	0.895	E	0.956
								F	0.924

Molecular Electrostatic Potential (MEP)

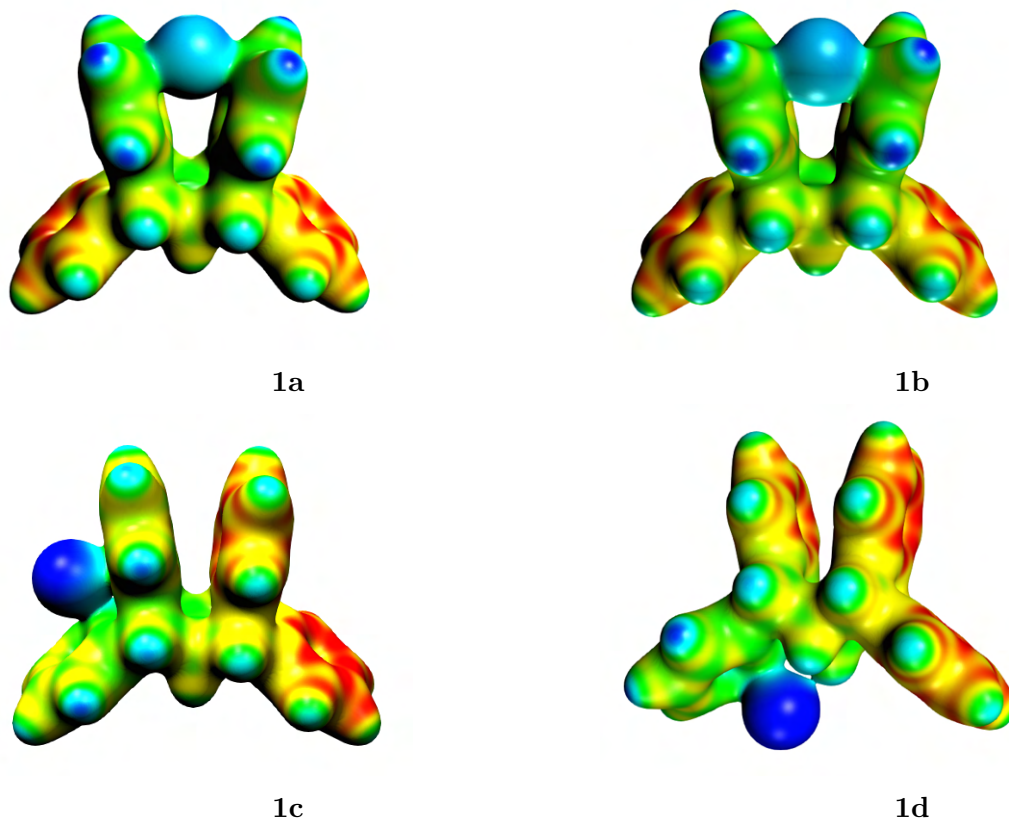


Figure S36: Electrostatic potential surfaces mapped as an electron density surface of 0.030 [0.140(red) - 0.360(blue)] for the [janusene-Ag]⁺. In all cases, arbitrary units (a.u.) are used.

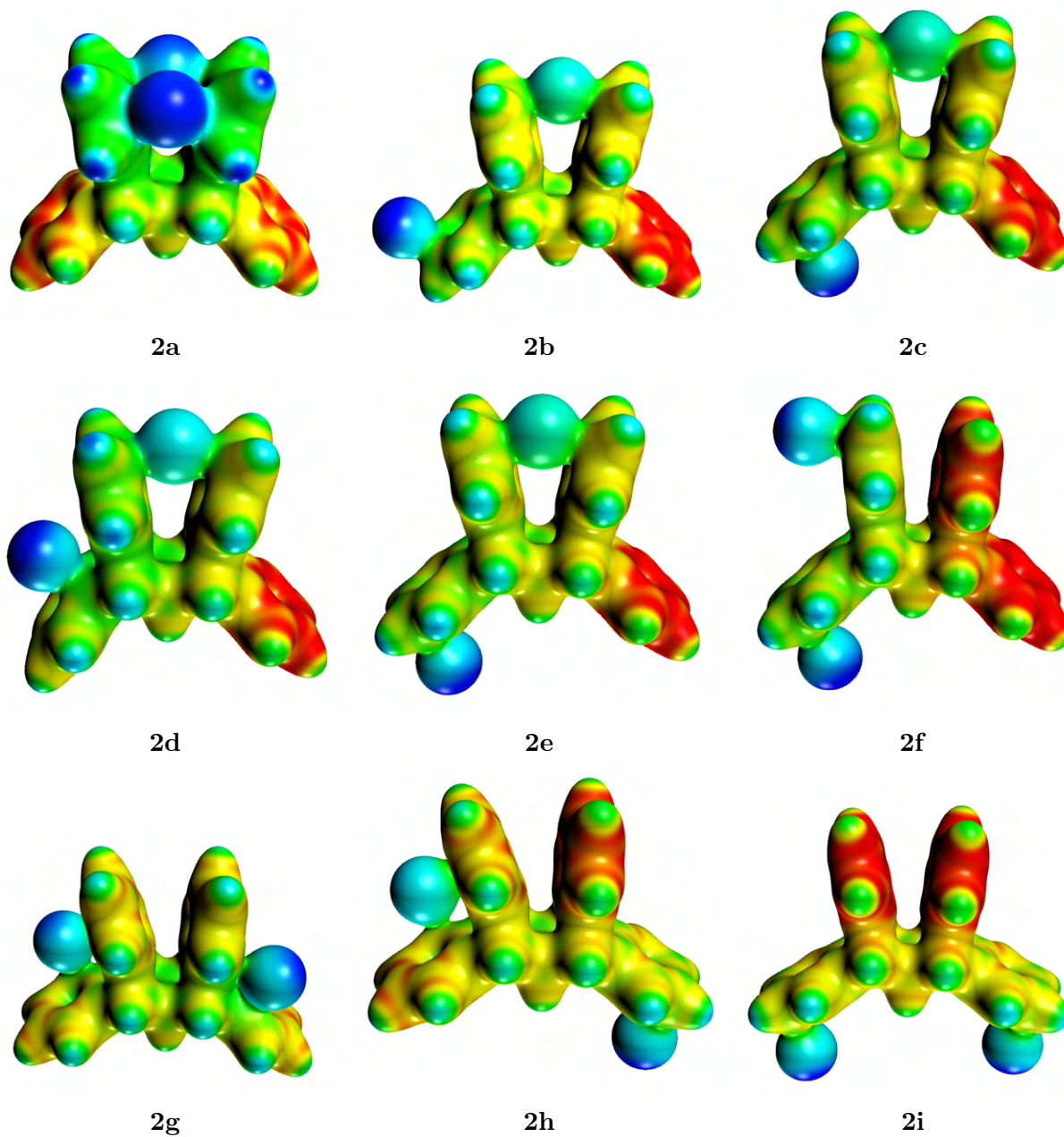


Figure S37: Electrostatic potential surfaces mapped as an electron density surface of 0.030 [0.240(red) - 0.490(blue)] for the $[\text{janusene}-\text{Ag}_2]^{2+}$. In all cases, arbitrary units (a.u.) are used.

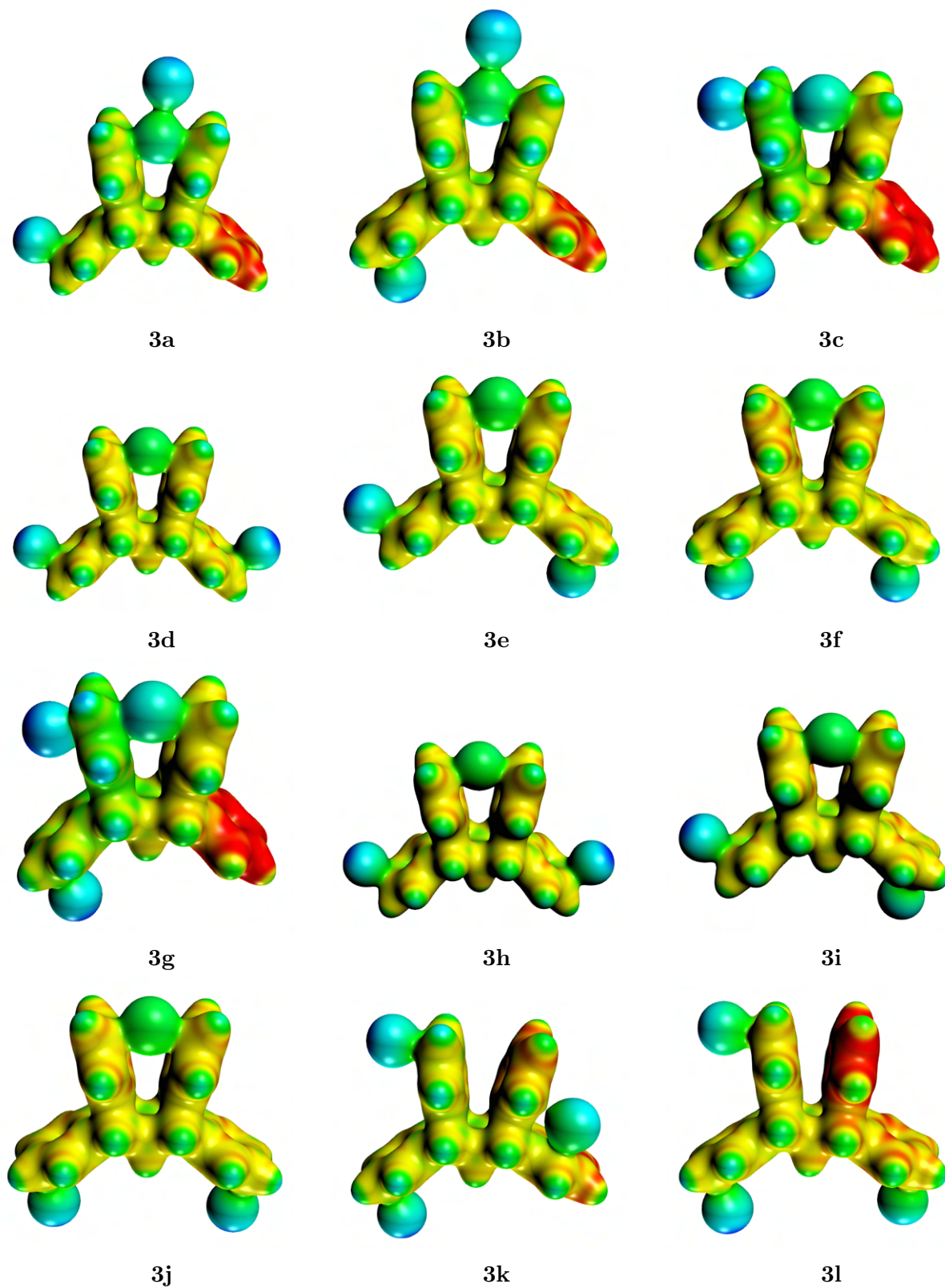


Figure S38: Electrostatic potential surfaces mapped as an electron density surface of 0.030 [0.330(red) - 0.610(blue)] for the [janusene- Ag_3] $^{3+}$. In all cases, arbitrary units (a.u.) are used.

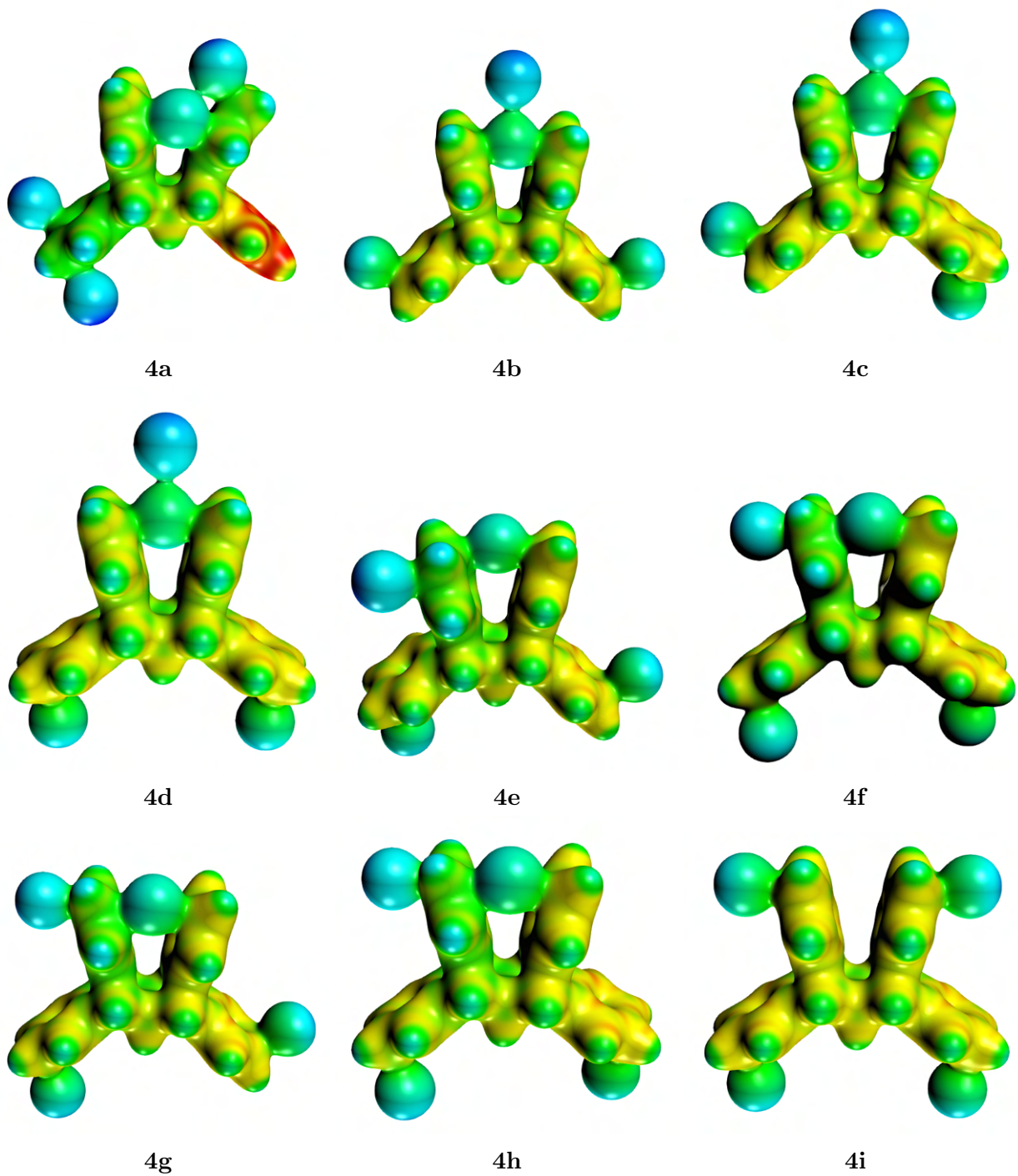
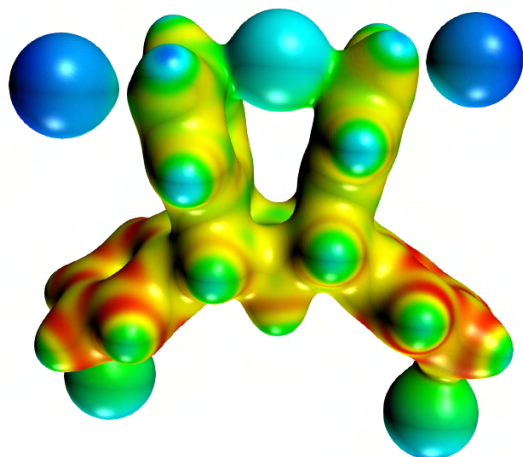


Figure S39: Electrostatic potential surfaces mapped as an electron density surface of 0.030 [0.390(red) - 0.710(blue)] for the $[\text{janusene}-\text{Ag}_2]^{4+}$. In all cases, arbitrary units (a.u.) are used.



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Figure S40: Electrostatic potential surfaces mapped as an electron density surface of 0.030 [0.510(red) - 0.750(blue)] for the [janusene-Ag₅]⁵⁺. In all cases, arbitrary units (a.u.) are used.

Quantum Theory of Atoms and Molecules (QTAIM)

1Ag Systems

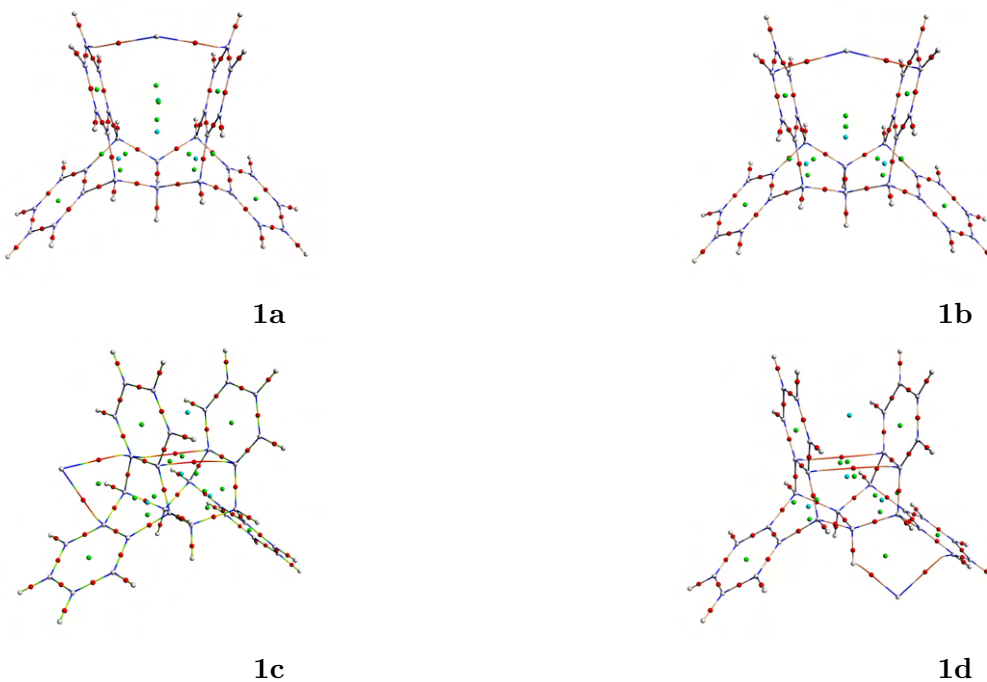


Figure S41: Topological map containing the QTAIM critical points. BCP(red), RCP(green), CCP(light blue) and NCP (white).

Table S9: Electron density (ρ_b), Laplacian of ρ_b ($\nabla^2 \rho_b$) and the $-G_b/V_b$ parameter at the BCP for the [janusene-Ag]⁺ systems.

1a				1b			
BCP	ρ_b	$\nabla^2 \rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2 \rho_b$	$-G_b/V_b$
A...F _{β_2}	0.060	0.152	0.790	B...F _{β_1}	0.062	0.150	0.772
A...F' _{β_2}	0.063	0.146	0.761	B...F' _{β_1}	0.064	0.144	0.754
1c				1d			
BCP	ρ_b	$\nabla^2 \rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2 \rho_b$	$-G_b/V_b$
C...F _{<i>ipso2</i>}	0.045	0.114	0.831	D...L _{α_2}	0.058	0.144	0.792
C...L _{<i>ipso2</i>}	0.043	0.108	0.846	D...H _{<i>C*</i>'}	0.030	0.080	0.920
F _{<i>ipso1</i>} ...F' _{<i>ipso1</i>}	0.012	0.037	1.195	F _{<i>ipso1</i>} ...F' _{<i>ipso1</i>}	0.010	0.034	1.245
F _{<i>ipso2</i>} ...F' _{<i>ipso2</i>}	0.012	0.035	1.199	F _{<i>ipso2</i>} ...F' _{<i>ipso2</i>}	0.010	0.034	1.242

2Ag Systems

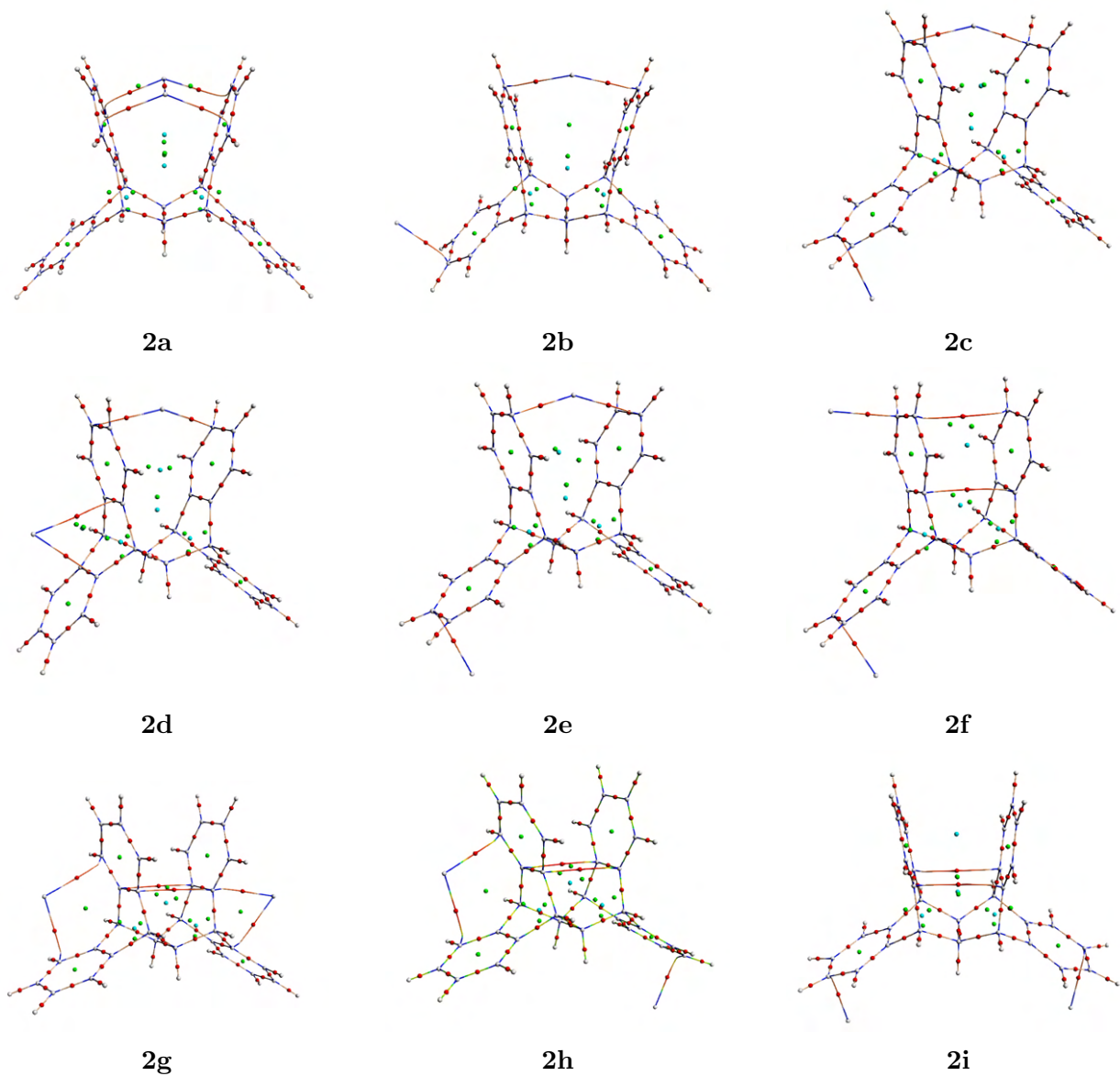


Figure S42: Topological map containing the QTAIM critical points. BCP(red), RCP(green), CCP(light blue) and NCP (white).

Table S10: Electron density (ρ_b), Laplacian of ρ_b ($\nabla^2\rho_b$) and the $-G_b/V_b$ parameter at the BCP for the [janusene–Ag₂]²⁺ systems.

2a				2b				2c			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
A...B	0.033	0.090	0.909	A...F _{β2}	0.062	0.141	0.763	A...F _{β2}	0.060	0.149	0.785
A...F _{α1}	0.056	0.153	0.819	A...F' _{β2}	0.062	0.148	0.771	A...F' _{β2}	0.064	0.145	0.759
A...F' _{α1}	0.056	0.152	0.820	C...L _{β1}	0.061	0.152	0.786	D...L _{β2}	0.060	0.160	0.806
B...F _{α2}	0.056	0.152	0.822								
B...F' _{β2}	0.056	0.153	0.818								
2d				2e				2f			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
B...F _{β2}	0.057	0.146	0.802	B...F _{β1}	0.061	0.140	0.767	C...F _{β2}	0.069	0.138	0.772
B...F' _{β2}	0.061	0.148	0.779	B...F' _{β1}	0.060	0.150	0.788	D...L _{β2}	0.059	0.155	0.800
C...L _{<i>ipso</i>1}	0.054	0.144	0.819	D...L _{β2}	0.060	0.159	0.804	F _{β1} ...F' _{β2}	0.006	0.016	1.352
C...F ^{BCP} _{<i>ipso</i>1·<i>ipso</i>2}	0.019	0.055	1.048					F _{<i>ipso</i>1} ...F' _{<i>ipso</i>}	0.012	0.038	1.171
2g				2h				2i			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
C...F _{α2}	0.033	0.083	0.897	C...F _{α2}	0.046	0.109	0.821	D...L _{β1}	0.062	0.158	0.791
C...L _{α2}	0.046	0.114	0.829	C...L _{α2}	0.036	0.090	0.882	F...L _{β2}	0.062	0.157	0.788
E...F' _{<i>ipso</i>1}	0.041	0.104	0.858	F...L' _{β1}	0.060	0.160	0.798	F _{<i>ipso</i>1} ...F' _{<i>ipso</i>1}	0.011	0.036	1.226
E...L' _{<i>ipso</i>1}	0.043	0.109	0.848	F _{<i>ipso</i>1} ...F' _{<i>ipso</i>1}	0.012	0.038	1.202	F _{<i>ipso</i>2} ...F' _{<i>ipso</i>2}	0.011	0.036	1.225
F _{<i>ipso</i>1} ...F' _{<i>ipso</i>1}	0.011	0.036	1.217	F _{<i>ipso</i>2} ...F' _{<i>ipso</i>2}	0.012	0.037	1.191				
F _{<i>ipso</i>2} ...F' _{<i>ipso</i>2}	0.012	0.036	1.200								

3Ag Systems

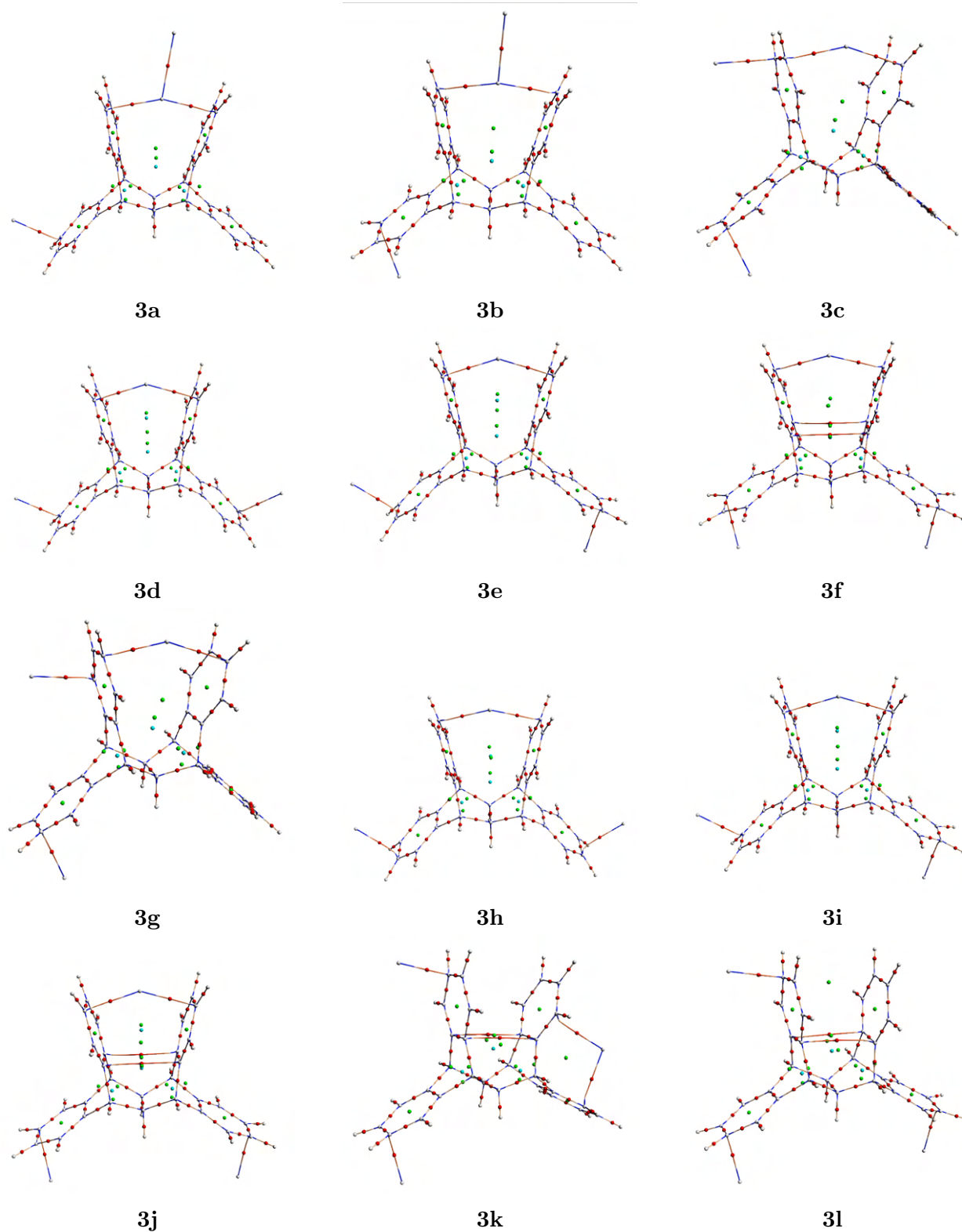


Figure S43: Topological map containing the QTAIM critical points. BCP(red), RCP(green), CCP(light blue) and NCP (white).

Table S11: Electron density (ρ_b), Laplacian of ρ_b ($\nabla^2\rho_b$) and the $-G_b/V_b$ parameter at the BCP for the [janusene–Ag₃]³⁺ systems.

3a				3b				3c			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
A...B	0.041	0.094	0.830	A...B	0.040	0.093	0.830	A...F _{β1}	0.057	0.135	0.781
A...F _{β1}	0.060	0.140	0.772	A...F _{β2}	0.063	0.133	0.744	A...F' _{β1}	0.064	0.152	0.769
A...F' _{β1}	0.065	0.136	0.736	A...F' _{β2}	0.061	0.140	0.762	C...F _{β2}	0.062	0.131	0.747
C...L _{β2}	0.057	0.155	0.815	D...L _{β2}	0.057	0.156	0.816	D...L _{β2}	0.059	0.144	0.783
3d				3e				3f			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
A...F _{β1}	0.061	0.141	0.768	A...F _{β1}	0.058	0.144	0.788	A...F _{β2}	0.061	0.139	0.764
A...F' _{β1}	0.061	0.144	0.774	A...F' _{β1}	0.060	0.140	0.769	A...F' _{β2}	0.059	0.146	0.787
C...L _{β2}	0.059	0.150	0.796	C...L _{β1}	0.057	0.158	0.821	D...L _{β2}	0.058	0.159	0.815
E...L _{β2}	0.059	0.149	0.793	F...L _{β1}	0.058	0.158	0.813	F...L _{β1}	0.058	0.157	0.808
3g				3h				3i			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
A...F _{β1}	0.060	0.138	0.770	B...F _{β2}	0.060	0.144	0.777	B...F _{β1}	0.060	0.140	0.770
A...F' _{β1}	0.062	0.153	0.778	B...F' _{β2}	0.060	0.142	0.773	B...F' _{β1}	0.061	0.140	0.766
C...F _{α2}	0.059	0.136	0.770	C...L _{β1}	0.058	0.152	0.802	C...L _{β2}	0.058	0.151	0.805
D...L _{β1}	0.057	0.145	0.796	E...L _{β1}	0.058	0.158	0.816	F...L _{β1}	0.059	0.150	0.791
3j				3k				3l			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
B...F _{β1}	0.059	0.144	0.783	C...F _{β2}	0.060	0.142	0.778	C...F _{β2}	0.065	0.137	0.738
B...F' _{β1}	0.061	0.140	0.766	D...L _{β1}	0.057	0.153	0.810	D...L _{β1}	0.058	0.153	0.805
D...L _{β2}	0.059	0.153	0.799	E...F' _{α1}	0.030	0.076	0.917	F...L _{β1}	0.060	0.159	0.802
F...L _{β1}	0.059	0.157	0.806	E...L _{α1}	0.046	0.112	0.824	F _{<i>ipso1</i>} ...F' _{<i>ipso1</i>}	0.012	0.038	1.187
				F _{<i>ipso1</i>} ...F' _{<i>ipso1</i>}	0.010	0.033	1.247	F _{<i>ipso2</i>} ...F' _{<i>ipso2</i>}	0.012	0.037	1.204
				F _{<i>ipso2</i>} ...F' _{<i>ipso2</i>}	0.010	0.034	1.243				

4Ag Systems

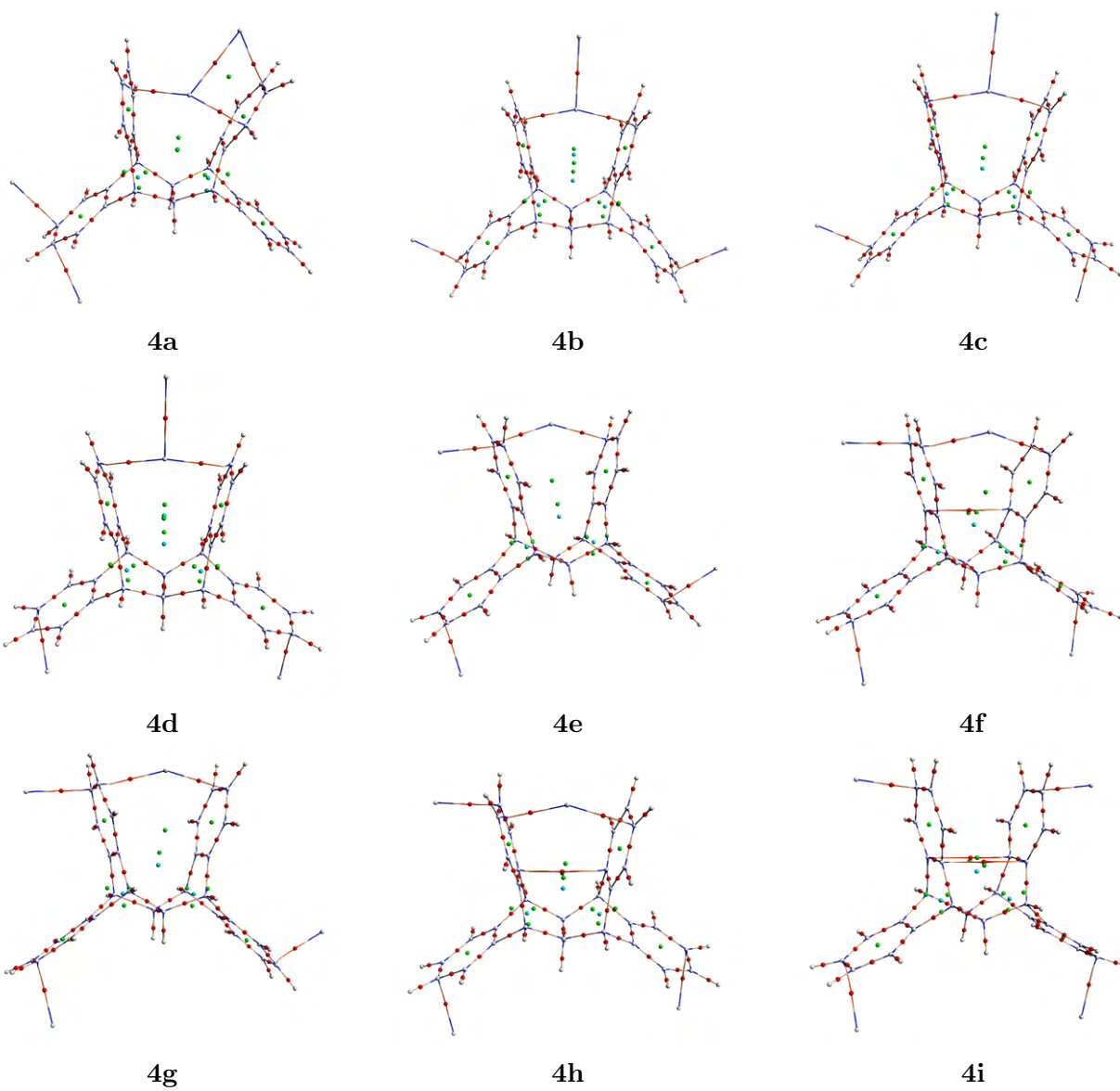


Figure S44: Topological map containing the QTAIM critical points. BCP(red), RCP(green), CCP(light blue) and NCP (white).

Table S12: Electron density (ρ_b), Laplacian of ρ_b ($\nabla^2\rho_b$) and the $-G_b/V_b$ parameter at the BCP for the [janusene-Ag₄]⁴⁺ systems.

4a				4b				4c			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
A...B	0.031	0.075	0.892	A...B	0.034	0.078	0.854	A...B	0.034	0.077	0.856
A...F _{β1}	0.059	0.148	0.787	A...F _{β1}	0.060	0.145	0.782	A...F _{β1}	0.064	0.134	0.743
A...F' _{α1}	0.069	0.142	0.728	A...F' _{β1}	0.061	0.144	0.772	A...F' _{β1}	0.059	0.146	0.785
B...F' _{β1}	0.058	0.119	0.746	C...L _{β1}	0.054	0.146	0.821	C...L _{β2}	0.056	0.139	0.800
C...L _{β2}	0.054	0.119	0.778	E...L' _{β1}	0.055	0.142	0.810	F...L' _{β2}	0.056	0.142	0.804
D...L _{β1}	0.054	0.120	0.775								
4d				4e				4f			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
A...B	0.034	0.076	0.857	A...F _{β2}	0.054	0.130	0.795	A...F _{β1}	0.054	0.129	0.795
A...F _{β2}	0.060	0.142	0.771	A...F' _{β2}	0.062	0.145	0.769	A...F' _{β1}	0.061	0.146	0.773
A...F' _{β2}	0.060	0.144	0.774	C...F _{β1}	0.058	0.127	0.758	C...F _{β2}	0.059	0.127	0.757
D...L _{β2}	0.055	0.148	0.818	D...L _{β2}	0.054	0.142	0.816	D...L _{β1}	0.060	0.133	0.758
F...L' _{β2}	0.055	0.143	0.810	E...L' _{β2}	0.055	0.144	0.812	F...L' _{β2}	0.057	0.144	0.799
4g				4h				4i			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$	BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
B...F _{β1}	0.054	0.134	0.798	B...F _{β1}	0.054	0.131	0.792	C...F _{β2}	0.055	0.143	0.812
B...F' _{β1}	0.062	0.143	0.762	B...F' _{β1}	0.062	0.145	0.768	D...L _{β2}	0.055	0.149	0.818
C...F _{β2}	0.059	0.127	0.757	C...F _{β2}	0.058	0.127	0.758	E...F' _{β2}	0.054	0.146	0.821
D...L _{β1}	0.054	0.142	0.817	D...L _{β1}	0.060	0.131	0.760	F...L' _{β1}	0.060	0.135	0.764
E...L' _{β1}	0.055	0.146	0.815	F...L' _{β2}	0.056	0.142	0.799				

5Ag System

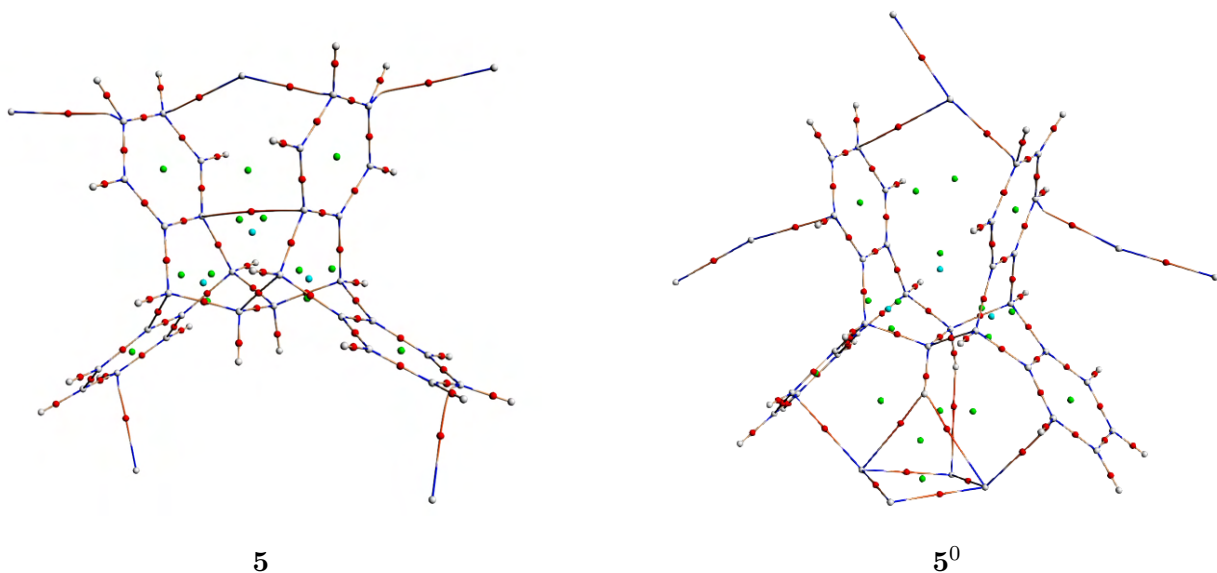


Figure S45: Topological map containing the QTAIM critical points. BCP(red), RCP(green), CCP(light blue) and NCP (white).

Table S13: Electron density (ρ_b), Laplacian of ρ_b ($\nabla^2\rho_b$) and the $-G_b/V_b$ parameter at BCP for the [janusene–Ag₅]⁵⁺ system.

5			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
A...F _{β2}	0.056	0.131	0.782
A...F' _{β1}	0.056	0.130	0.780
C...F _{β1}	0.028	0.073	0.930
D...L _{β2}	0.055	0.127	0.782
E...F' _{β2}	0.025	0.067	0.971
F...L' _{β2}	0.050	0.140	0.846
F _{<i>ipso2</i>} ...F' _{<i>ipso1</i>}	0.008	0.025	1.309

Table S14: Electron density (ρ_b), Laplacian of ρ_b ($\nabla^2\rho_b$) and the $-G_b/V_b$ parameter at the BCP for systems **5** and **5⁰**.

5⁰			
BCP	ρ_b	$\nabla^2\rho_b$	$-G_b/V_b$
A...F _{β2}	0.018	0.050	1.057
A...F' _{β1}	0.062	0.173	0.810
A...Cl ₁	0.085	0.253	0.776
C...F _{α1}	0.059	0.153	0.796
C...Cl ₂	0.089	0.263	0.766
D...L _{α1}	0.045	0.119	0.850
D...Cl ₃	0.052	0.164	0.871
D...Cl ₅	0.054	0.173	0.863
D...H _{C*}	0.014	0.041	1.116
E...F' _{α2}	0.059	0.166	0.817
E...Cl ₄	0.090	0.265	0.780
F...L' _{α1}	0.039	0.109	0.884
F...Cl ₃	0.056	0.176	0.858
F...Cl ₅	0.056	0.177	0.859
F...H _{C*}	0.015	0.041	1.107
Cl ₅ ...H _{C*'}	0.012	0.034	1.171

EDA/ETS-NOCV

Energy Decomposition

Table S15: Energy decomposition analysis (kcal · mol⁻¹) for complexes **2a** - **5** in different fragmentation schemes. Values in parenthesis and brackets represent the percentage contribution of each term for stabilizing and destabilizing contributions, respectively.

2a	Frag.(1)	Frag.(2)	ΔE_{int}	ΔE_{ele}	ΔE_{orb}	ΔE_{disp}	ΔE_{Pauli}
2a(i)	Janus	AB ²⁺	-204.24	-182.31 (45)	-202.95 (50)	-21.08 (5)	202.10 [100]
2a(ii)	Janus...B ¹⁺	A ¹⁺	-8.71	-11.04 (9)	-96.17 (81)	-12.16 (10)	110.65 [100]
2a(iii)	Janus...A ¹⁺	B ¹⁺	-8.65	-10.86 (9)	-96.08 (81)	-12.17 (10)	110.47 [100]
3a	Frag.(1)	Frag.(2)	ΔE_{int}	ΔE_{ele}	ΔE_{orb}	ΔE_{disp}	ΔE_{Pauli}
3a(i)	Janus	ABC ³⁺	-217.21	-154.51 (41)	-203.17 (54)	-21.12 (5)	161.60 [100]
3a(ii)	Janus...C ¹⁺	AB ²⁺	-86.59	-5.75 (3)	-170.31 (89)	-15.75 (8)	105.22 [100]
3a(iii)	Janus...BC ²⁺	A ¹⁺	14.47	13.29 [9]	-116.20 (90)	-12.57 (10)	129.95 [91]
3a(iv)	Janus...AC ²⁺	B ¹⁺	60.64	101.43 [87]	-49.71 (89)	-6.20 (11)	15.11 [13]
3a(v)	Janus...AB ²⁺	C ¹⁺	36.96	54.63 [53]	-60.41 (92)	-5.41 (8)	48.15 [47]
3b	Frag.(1)	Frag.(2)	ΔE_{int}	ΔE_{ele}	ΔE_{orb}	ΔE_{disp}	ΔE_{Pauli}
3b(i)	Janus	ABD ³⁺	-209.87	-152.39 (41)	-196.53 (53)	-21.19 (6)	160.23 [100]
3b(ii)	Janus...D ¹⁺	AB ²⁺	-86.81	-6.54 (3)	-167.88 (88)	-15.72 (9)	103.33 [100]
3b(iii)	Janus...BD ²⁺	A ¹⁺	13.17	13.41 [9]	-116.03 (90)	-12.75 (10)	128.53 [91]
3b(iv)	Janus...AD ²⁺	B ¹⁺	60.93	100.81 [87]	-48.36 (89)	-6.02 (11)	14.50 [13]
3b(v)	Janus...AB ²⁺	D ¹⁺	37.05	54.68 [53]	-60.39 (92)	-5.49 (8)	48.25 [47]
4a	Frag.(1)	Frag.(2)	ΔE_{int}	ΔE_{ele}	ΔE_{orb}	ΔE_{disp}	ΔE_{Pauli}
4a(i)	Janus	ABCD ⁴⁺	-241.39	-212.11 (46)	-223.27 (48)	-27.97 (6)	221.95 [100]
4a(ii)	Janus...CD ²⁺	AB ²⁺	6.72	79.23 [36]	-195.57 (92)	-17.56 (8)	140.62 [64]
4a(iii)	Janus...BCD ³⁺	A ¹⁺	78.78	78.66 [40]	-104.38 (89)	-13.43 (11)	117.93 [60]
4a(iv)	Janus...ACD ³⁺	B ¹⁺	94.01	120.30 [72]	-66.03 (89)	-7.91 (11)	47.65 [28]
4a(v)	Janus...ABD ³⁺	C ¹⁺	108.35	128.70 [81]	-44.00 (88)	-5.77 (12)	29.42 [19]
4a(vi)	Janus...ABC ³⁺	D ¹⁺	108.29	128.81 [81]	-44.03 (88)	-5.82 (12)	29.34 [19]
4b	Frag.(1)	Frag.(2)	ΔE_{int}	ΔE_{ele}	ΔE_{orb}	ΔE_{disp}	ΔE_{Pauli}
4b(i)	Janus	ABCE ⁴⁺	-230.18	-201.91 (46)	-213.98 (48)	-26.01 (6)	211.72 [100]
4b(ii)	Janus...CE ²⁺	AB ²⁺	15.98	79.18 [42]	-156.24 (91)	-15.70 (9)	108.74 [58]
4b(iii)	Janus...BCE ³⁺	A ¹⁺	66.55	63.24 [32]	-116.12 (90)	-12.83 (10)	132.26 [68]
4b(iv)	Janus...ACE ³⁺	B ¹⁺	109.98	142.58 [93]	-37.30 (86)	-5.95 (14)	10.66 [7]
4b(v)	Janus...ABE ³⁺	C ¹⁺	79.32	101.13 [71]	-58.25 (92)	-5.20 (8)	41.65 [29]
4b(vi)	Janus...ABC ³⁺	E ¹⁺	79.39	101.34 [71]	-58.02 (92)	-5.19 (8)	41.26 [29]
4c	Frag.(1)	Frag.(2)	ΔE_{int}	ΔE_{ele}	ΔE_{orb}	ΔE_{disp}	ΔE_{Pauli}
4c(i)	Janus	ABCF ⁴⁺	-226.47	-198.54 (46)	-209.67 (48)	-25.93 (6)	207.67 [100]
4c(ii)	Janus...CF ²⁺	AB ²⁺	14.82	80.58 [44]	-154.66 (91)	-15.59 (9)	104.48 [56]
4c(iii)	Janus...BCF ³⁺	A ¹⁺	65.98	66.04 [34]	-114.72 (90)	-12.83 (10)	127.50 [66]
4c(iv)	Janus...ACF ³⁺	B ¹⁺	109.47	142.04 [93]	-37.05 (86)	-5.88 (14)	10.36 [7]
4c(v)	Janus...ABF ³⁺	C ¹⁺	80.18	102.08 [71]	-57.68 (92)	-5.25 (8)	41.03 [29]
4c(vi)	Janus...ABC ³⁺	F ¹⁺	80.46	102.56 [71]	-58.94 (92)	-5.16 (8)	42.00 [29]
4d	Frag.(1)	Frag.(2)	ΔE_{int}	ΔE_{ele}	ΔE_{orb}	ΔE_{disp}	ΔE_{Pauli}
4d(i)	Janus	ABDF ⁴⁺	-225.32	-201.27 (46)	-211.55 (48)	-25.55 (6)	213.06 [100]
4d(ii)	Janus...DF ²⁺	AB ²⁺	13.62	77.70 [42]	-156.23 (91)	-15.49 (9)	107.65 [58]
4d(iii)	Janus...BDF ³⁺	A ¹⁺	65.07	62.65 [32]	-115.94 (90)	-12.78 (10)	131.14 [68]
4d(iv)	Janus...ADF ³⁺	B ¹⁺	108.42	140.76 [93]	-36.66 (86)	-5.83 (14)	10.15 [7]
4d(v)	Janus...ABF ³⁺	D ¹⁺	81.77	103.58 [71]	-58.79 (92)	-5.07 (8)	42.05 [29]
4d(vi)	Janus...ABD ³⁺	F ¹⁺	81.72	102.98 [70]	-59.41 (92)	-5.09 (8)	43.24 [30]
5	Frag.(1)	Frag.(2)	ΔE_{int}	ΔE_{ele}	ΔE_{orb}	ΔE_{disp}	ΔE_{Pauli}
5(i)	Janus	ACDEF ⁵⁺	-202.19	-194.35 (50)	-167.00 (42)	-30.97 (8)	190.14 [100]
5(ii)	Janus...CDEF ⁴⁺	A ¹⁺	134.64	152.28 [66]	-82.59 (87)	-11.98 (13)	76.93 [34]
5(iii)	Janus...ADEF ⁴⁺	C ¹⁺	144.40	166.88 [96]	-24.32 (82)	-5.46 (18)	7.31 [4]
5(iv)	Janus...ACEF ⁴⁺	D ¹⁺	117.64	137.72 [79]	-52.03 (91)	-4.92 (9)	36.87 [21]
5(v)	Janus...ACDF ⁴⁺	E ¹⁺	143.78	167.20 [95]	-27.02 (83)	-5.62 (17)	9.21 [5]
5(vi)	Janus...ACDE ⁴⁺	F ¹⁺	117.88	139.54 [81]	-50.26 (91)	-5.03 (9)	33.61 [19]

NOCV Deformation Densities

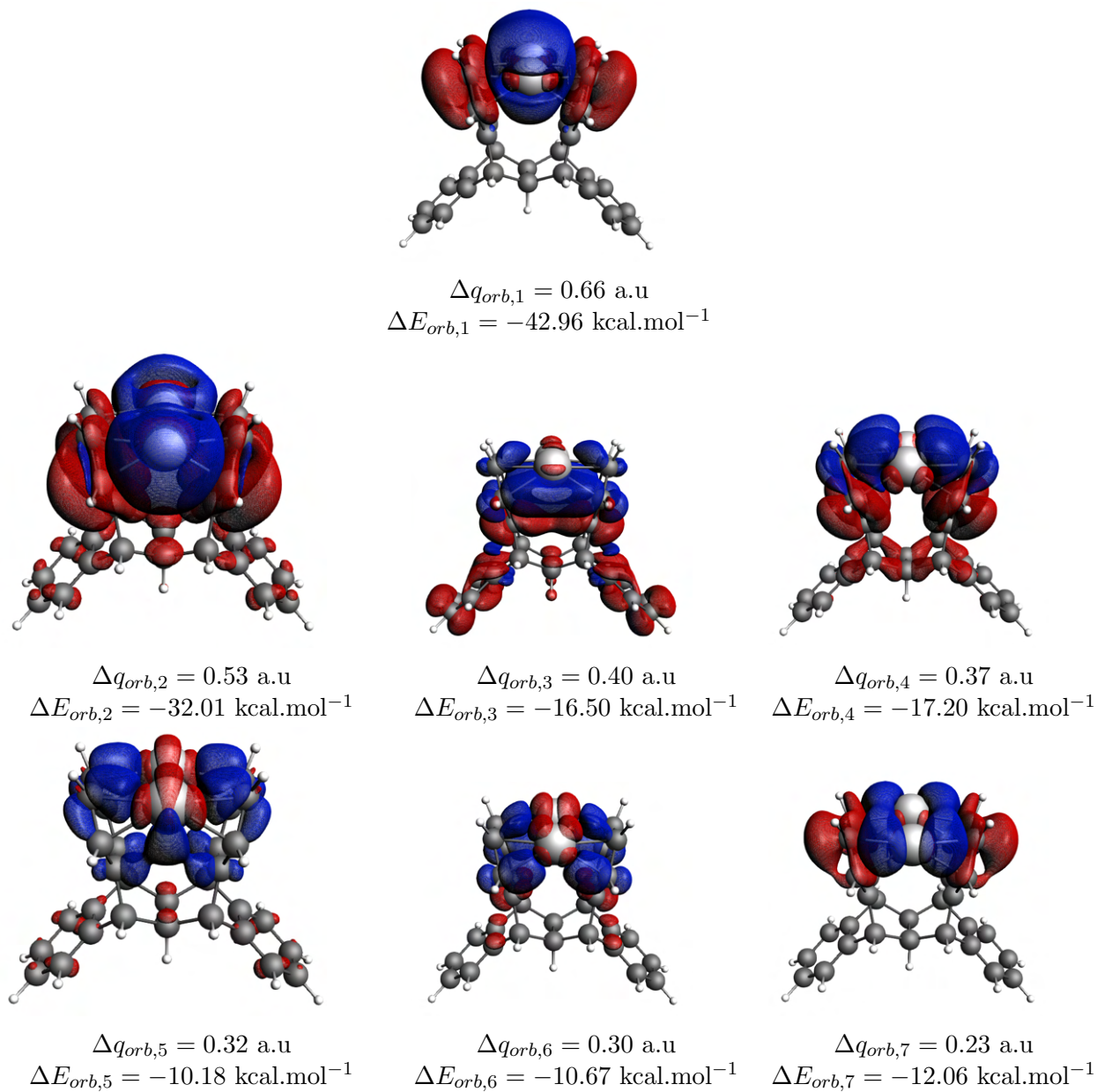


Figure S46: Density flow channels for fragmentation **2a(i)** contributing with more than 10 kcal.mol⁻¹ with their respective energies $\Delta E_{orb,k}$ and charge transfer estimation Δq_k values. Red and blue regions indicate electronic density outflow and inflow, respectively.

The isovalues used to represent these surfaces are equal to 3×10^{-4} a.u.

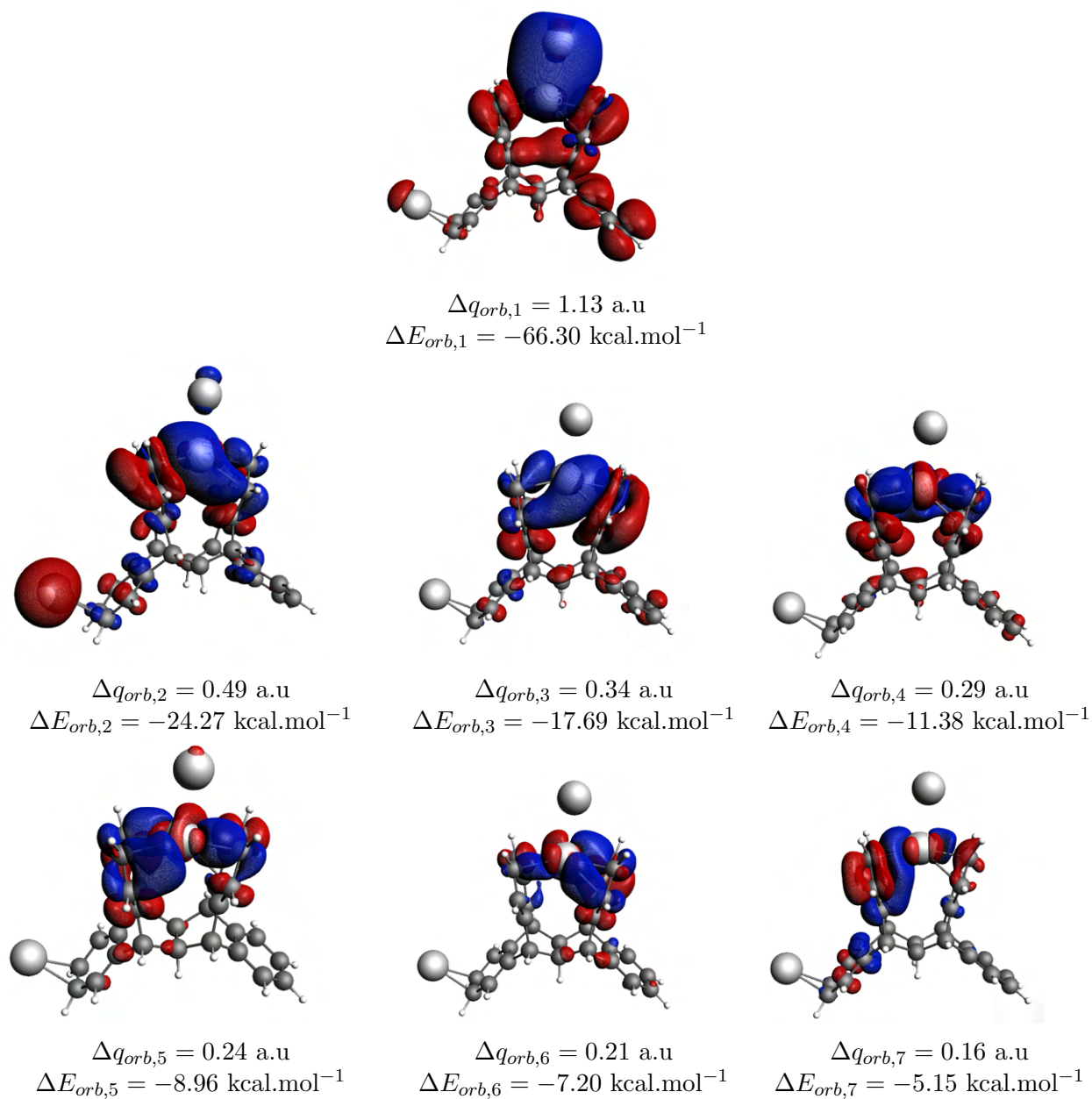


Figure S47: Density flow channels for fragmentation **3a(ii)** contributing with more than 5 kcal.mol^{-1} with their respective energies $\Delta E_{Orb,k}$ and charge transfer estimation Δq_k values. Red and blue regions indicate electronic density outflow and inflow, respectively. The isovalues used to represent these surfaces are equal to $3 \times 10^{-4} \text{ a.u.}$

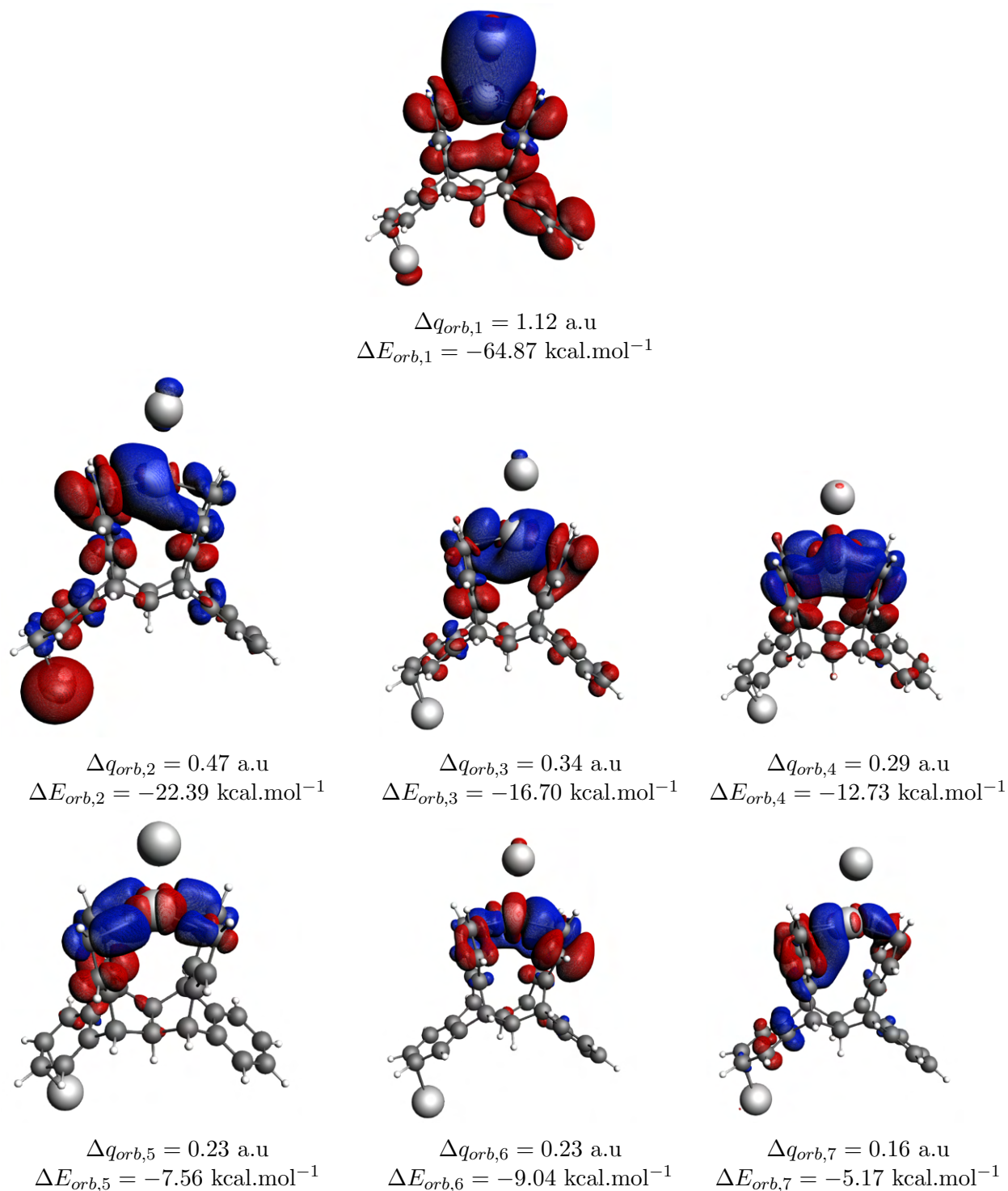


Figure S48: Density flow channels for fragmentation **3b(ii)** contributing with more than 5 kcal.mol^{-1} with their respective energies $\Delta E_{orb,k}$ and charge transfer estimation Δq_k values. Red and blue regions indicate electronic density outflow and inflow, respectively.

The isovalues used to represent these surfaces are equal to $3 \times 10^{-4} \text{ a.u.}$

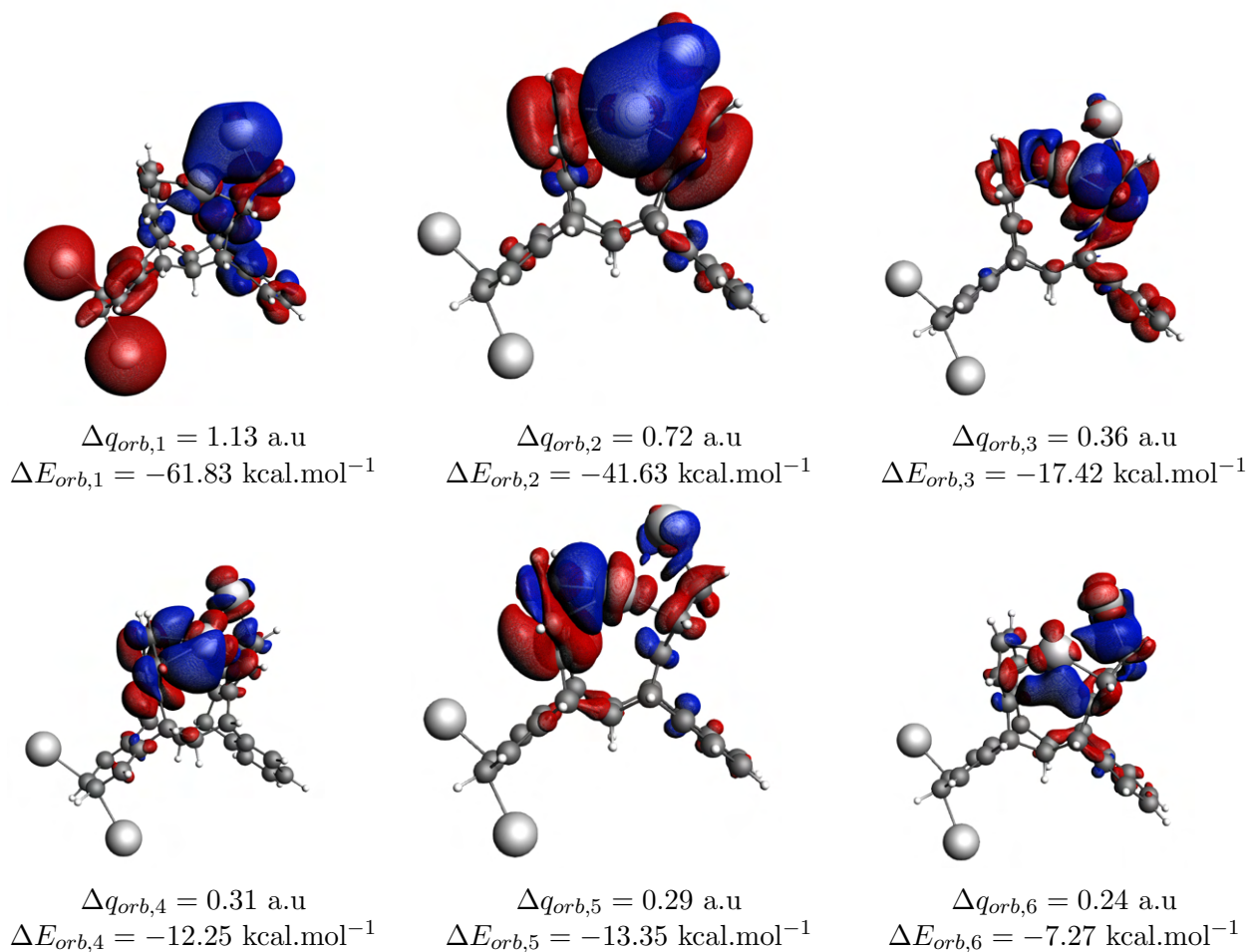


Figure S49: Density flow channels for fragmentation **4a(ii)** contributing with more than 5 kcal.mol^{-1} with their respective energies $\Delta E_{orb,k}$ and charge transfer estimation Δq_k values. Red and blue regions indicate electronic density outflow and inflow, respectively. The isovalues used to represent these surfaces are equal to $3 \times 10^{-4} \text{ a.u.}$

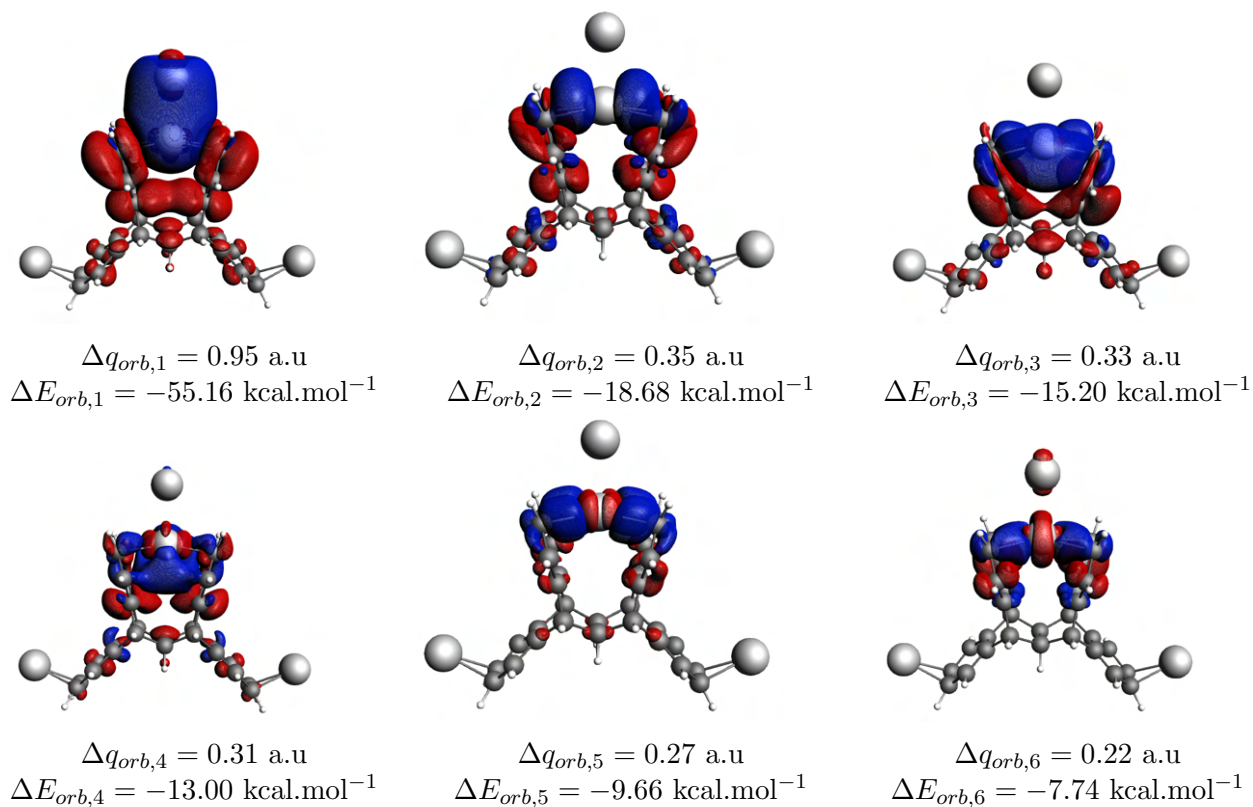


Figure S50: Density flow channels for fragmentation **4b(ii)** contributing with more than 5 kcal.mol^{-1} with their respective energies $\Delta E_{Orb,k}$ and charge transfer estimation Δq_k values. Red and blue regions indicate electronic density outflow and inflow, respectively. The isovalues used to represent these surfaces are equal to $3 \times 10^{-4} \text{ a.u.}$

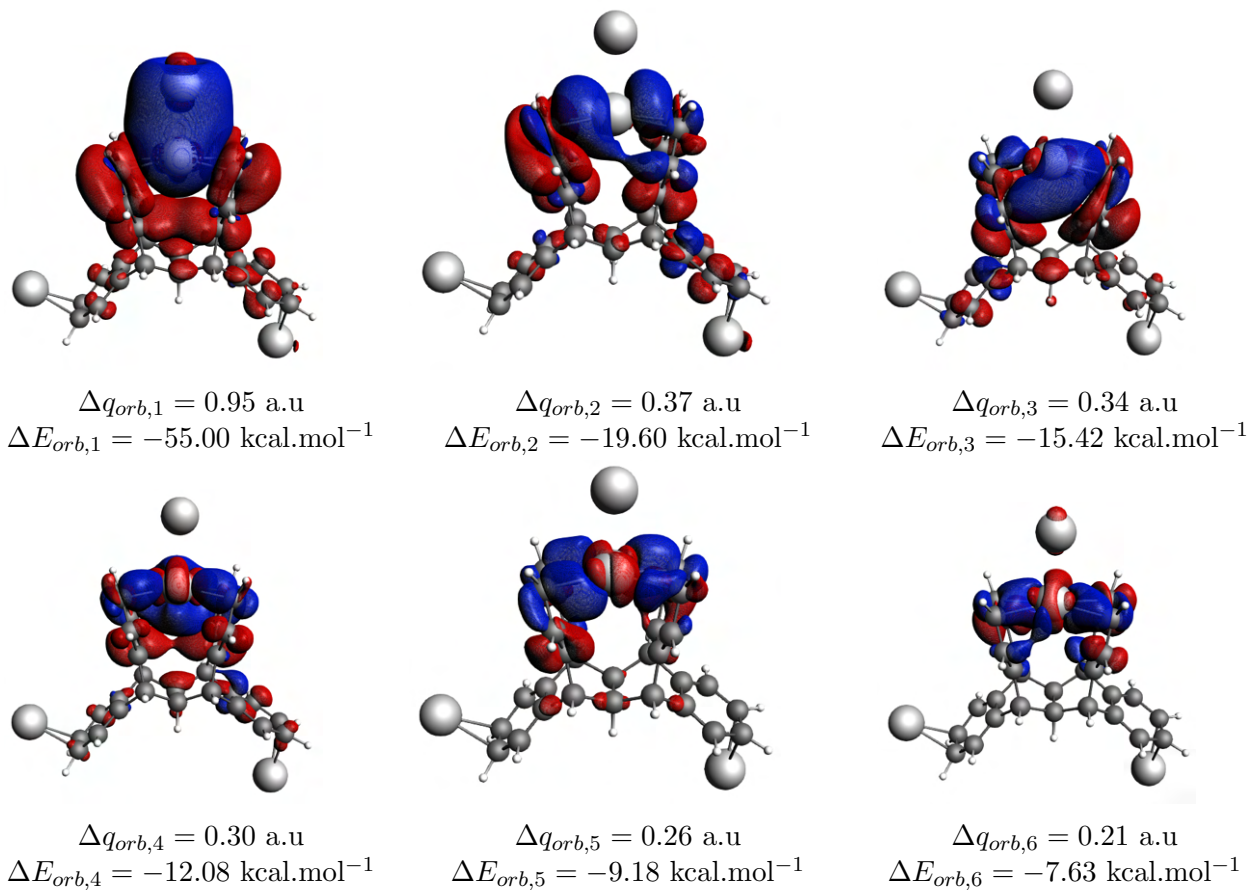


Figure S51: Density flow channels for fragmentation **4c(ii)** contributing with more than 5 kcal.mol^{-1} with their respective energies $\Delta E_{orb,k}$ and charge transfer estimation Δq_k values. Red and blue regions indicate electronic density outflow and inflow, respectively. The isovalues used to represent these surfaces are equal to $3 \times 10^{-4} \text{ a.u.}$

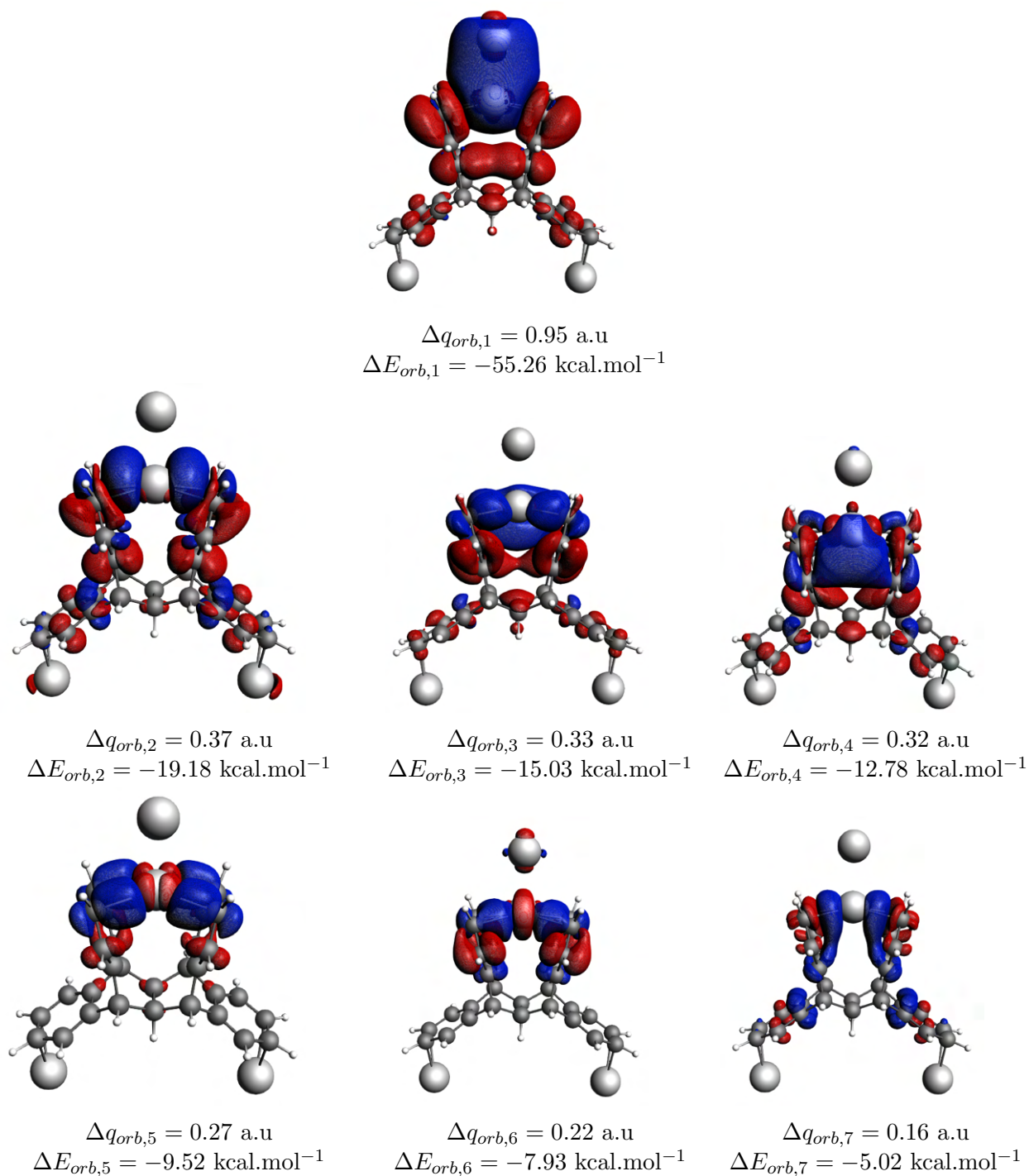


Figure S52: Density flow channels for fragmentation **4d(ii)** contributing with more than 5 kcal.mol^{-1} with their respective energies $\Delta E_{orb,k}$ and charge transfer estimation Δq_k values. Red and blue regions indicate electronic density outflow and inflow, respectively. The isovalues used to represent these surfaces are equal to $3 \times 10^{-4} \text{ a.u}$.

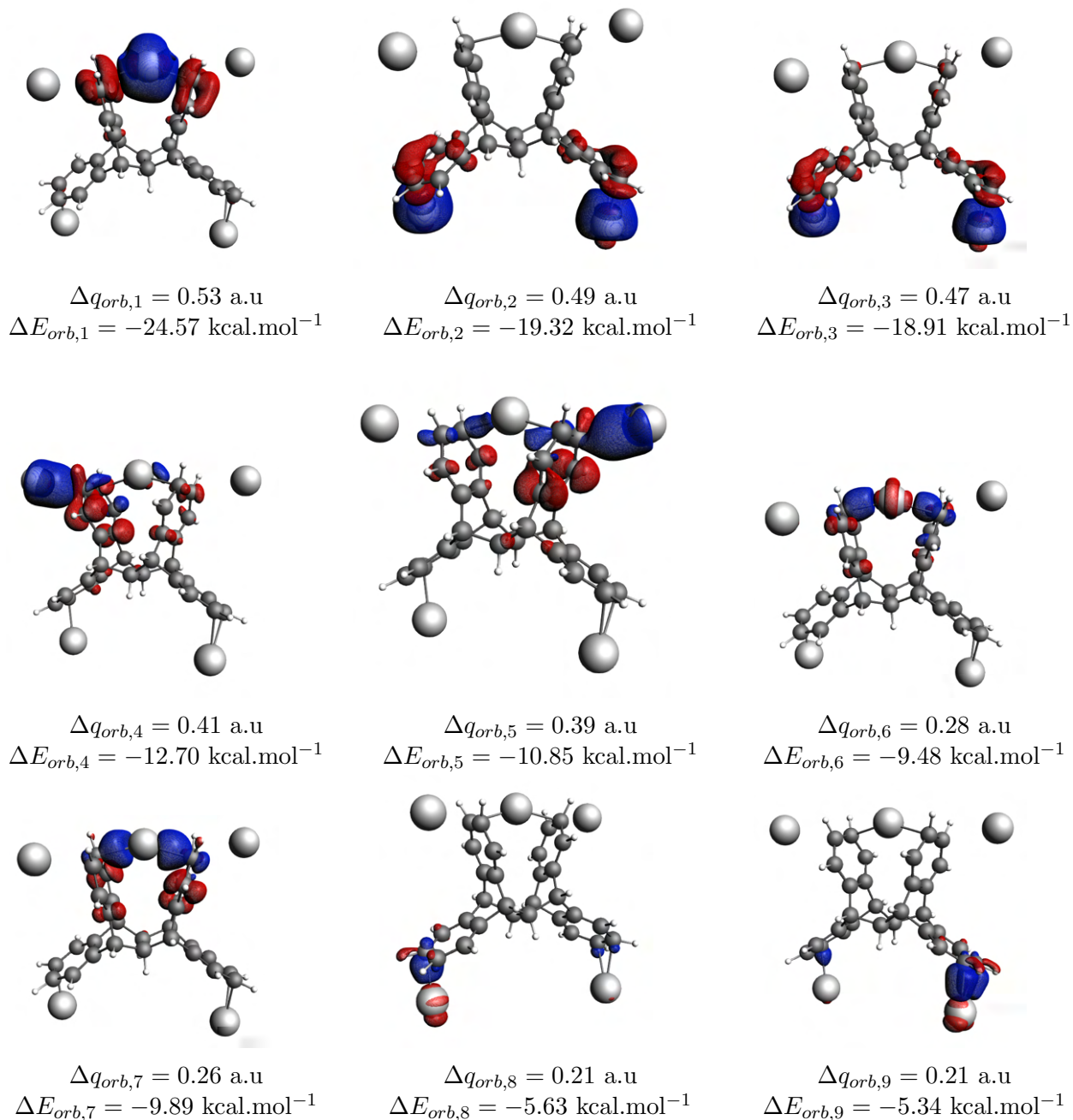


Figure S53: Most relevant density flow channels for fragmentation **5(i)** with their respective energies $\Delta E_{orb,k}$ and charge transfer estimation Δq_k values. Red and blue regions indicate electronic density outflow and inflow, respectively. The isovalues used to represent these surfaces are equal to $3 \times 10^{-4} \text{ a.u.}$

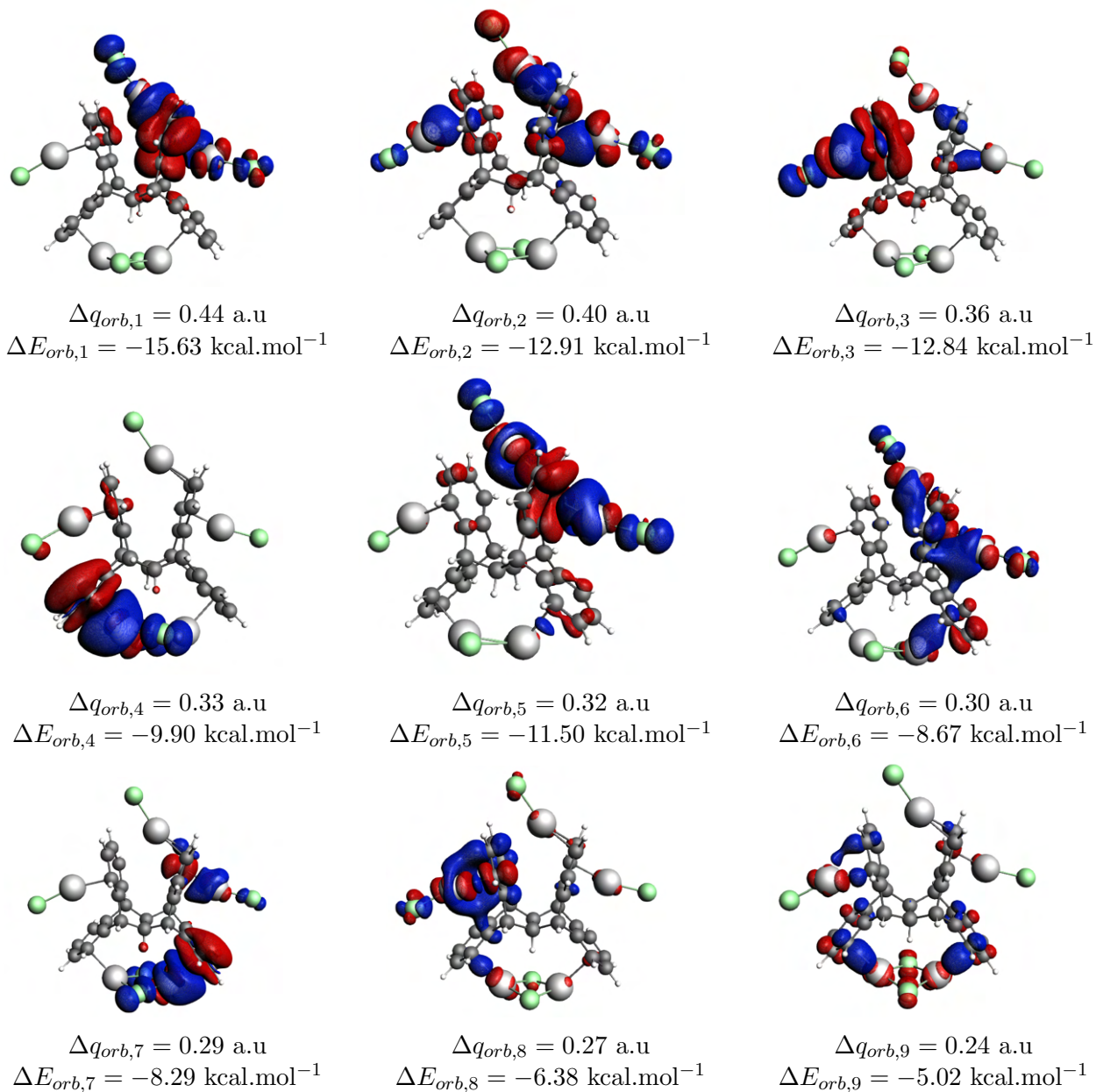
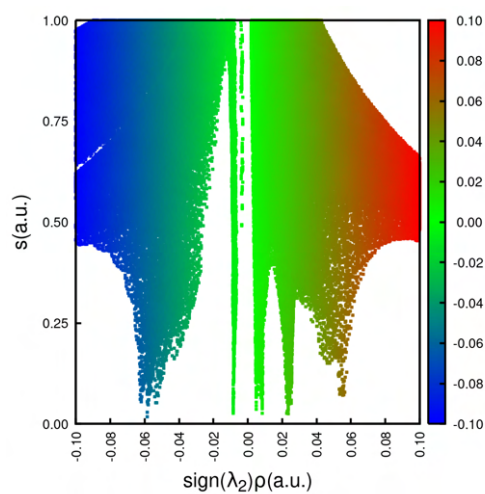


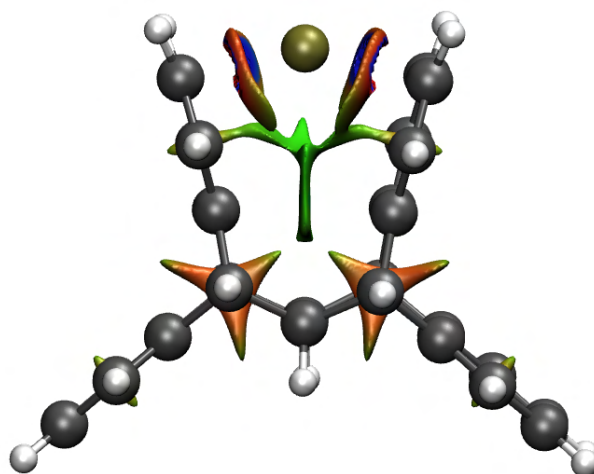
Figure S54: Most relevant density flow channels for fragmentation **5⁰(i)** with their respective energies $\Delta E_{Orb,k}$ and charge transfer estimation Δq_k values. Red and blue regions indicate electronic density outflow and inflow, respectively. The isovalues used to represent these surfaces are equal to $3 \times 10^{-4} \text{ a.u.}$

Non-Covalent Interactions Index (NCI)

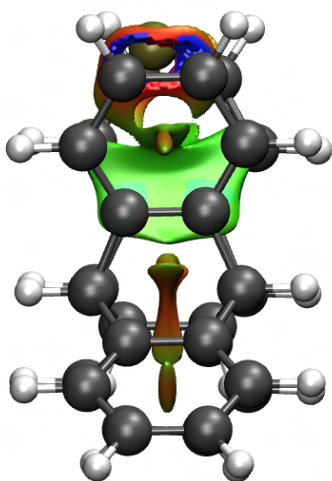
1Ag Systems



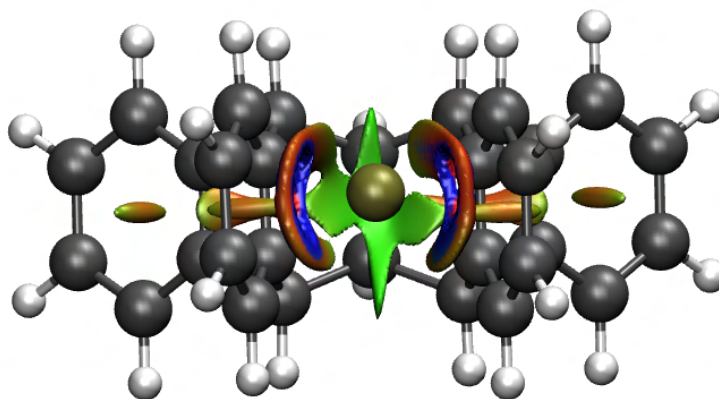
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

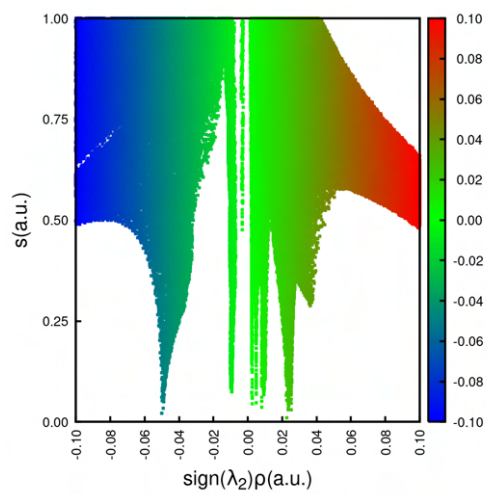


Side view

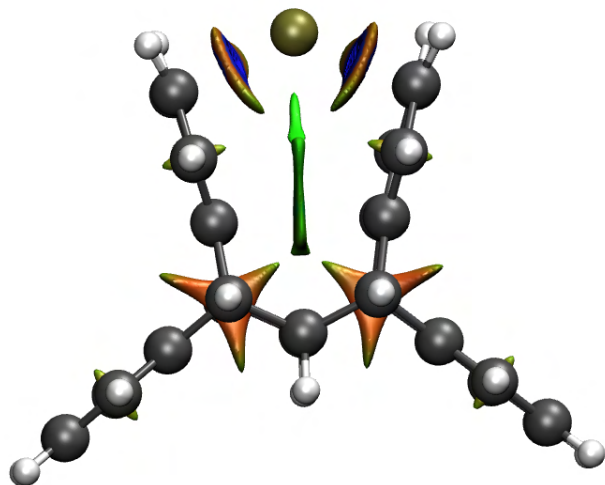


Top view

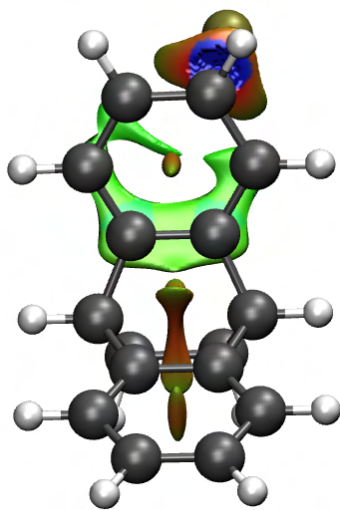
Figure S55: NCI images of system 1a.



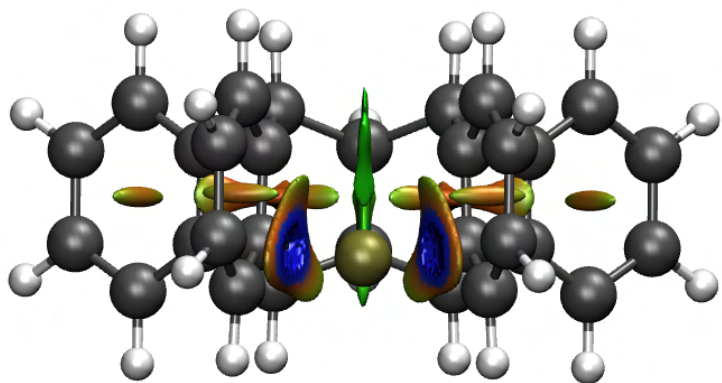
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

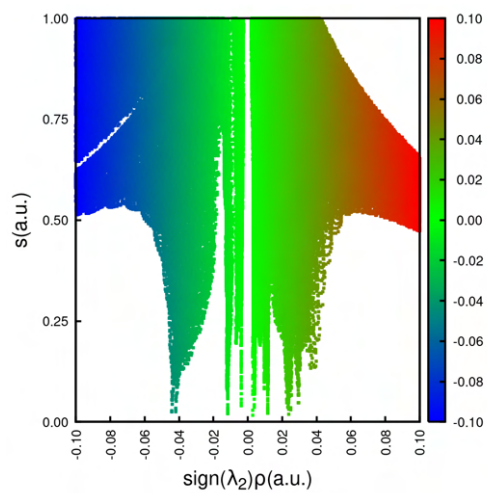


Side view

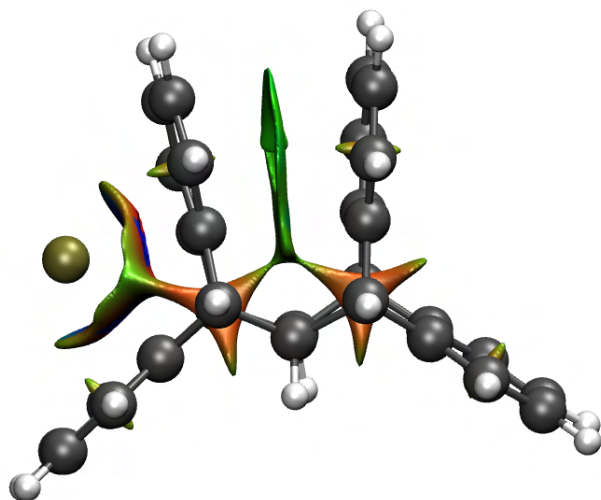


Top view

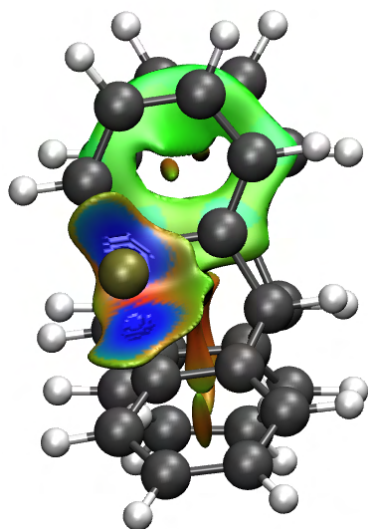
Figure S56: NCI images of system 1b.



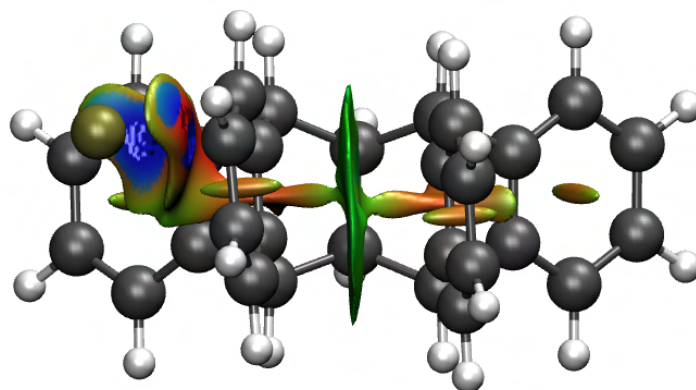
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

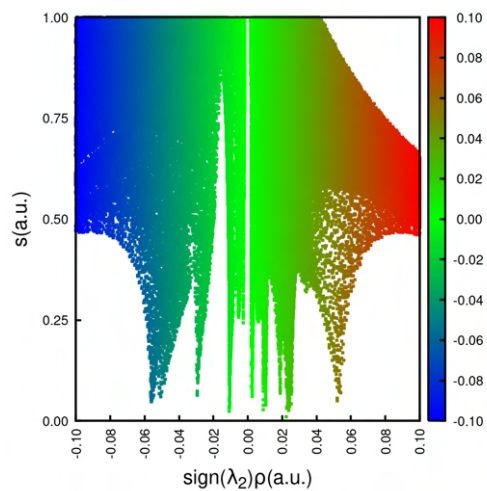


Side view

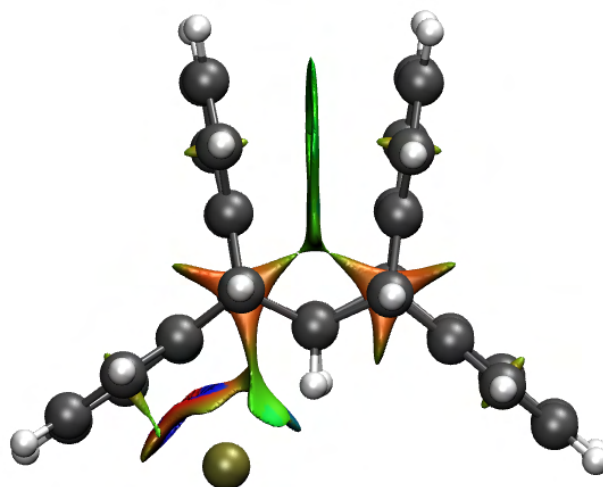


Top view

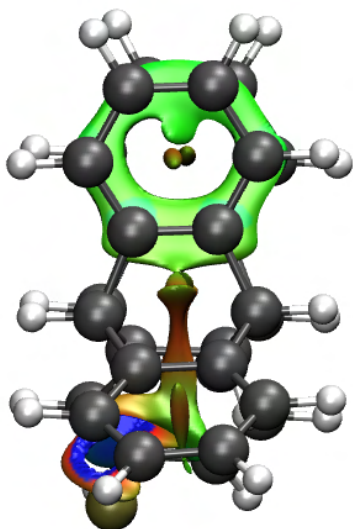
Figure S57: NCI images of system 1c.



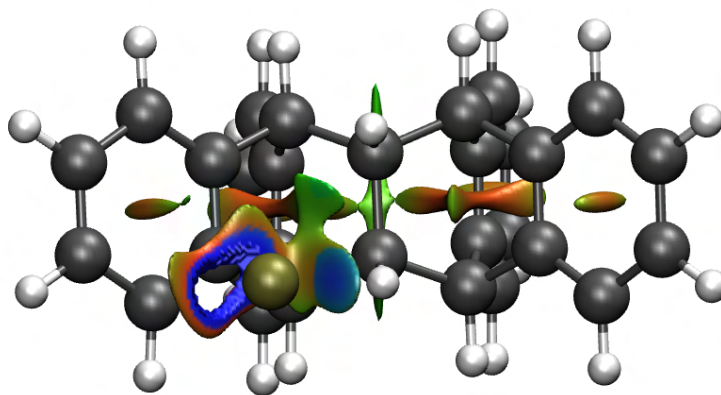
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view



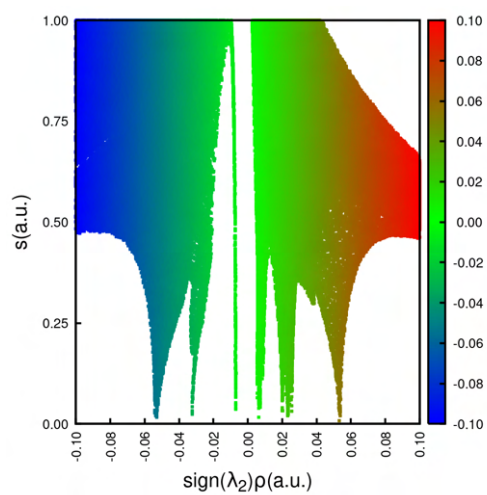
Side view



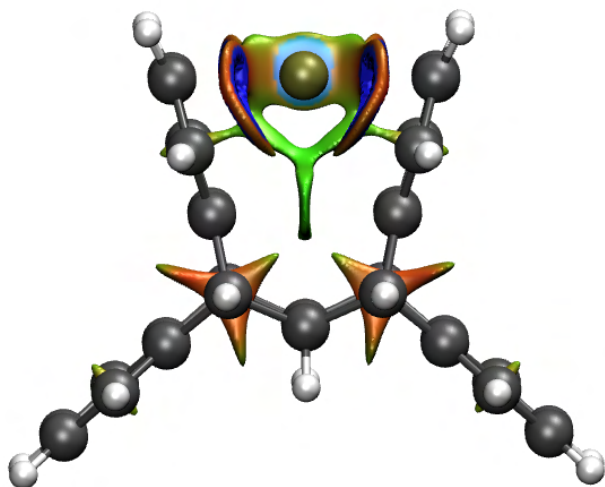
Bottom view

Figure S58: NCI images of system 1d.

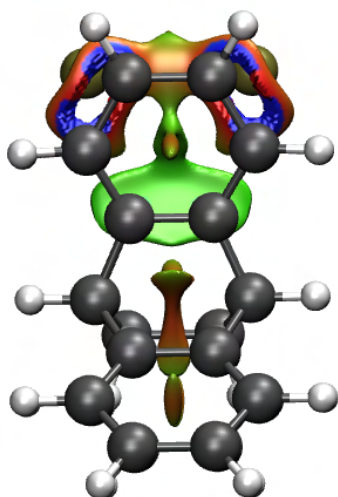
2Ag Systems



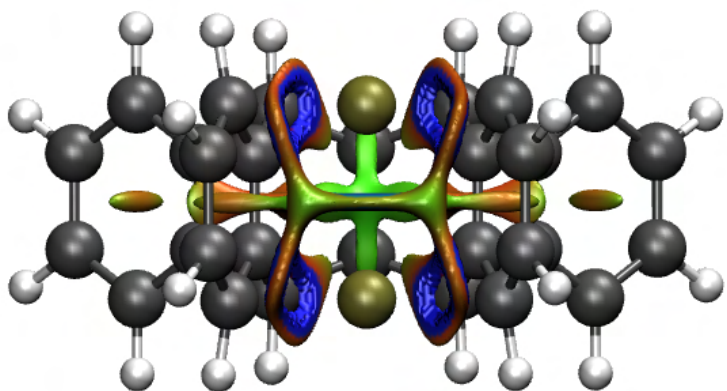
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

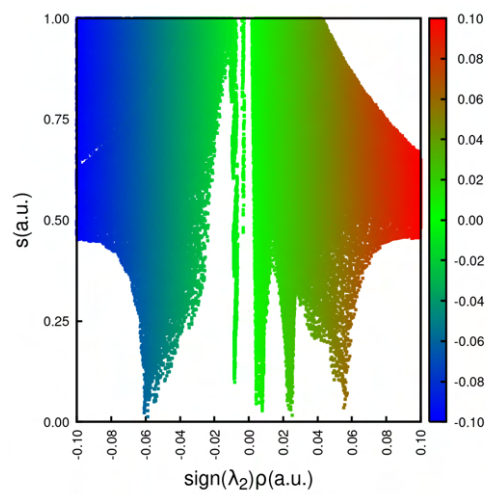


Side view

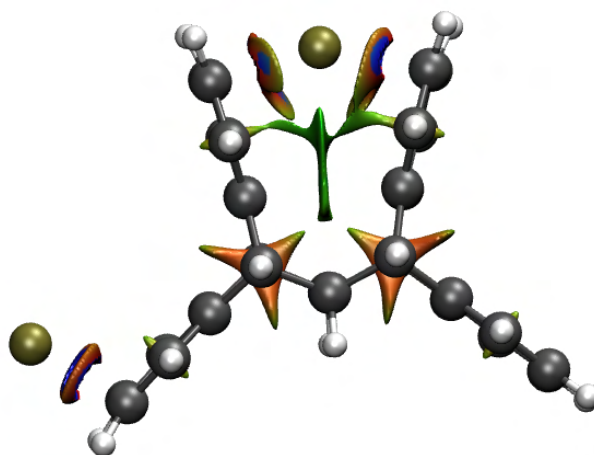


Top view

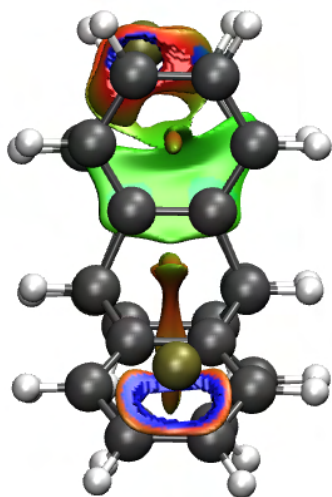
Figure S59: NCI images of system 2a.



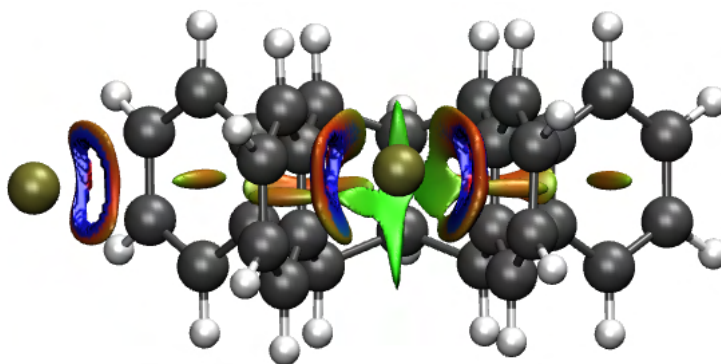
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

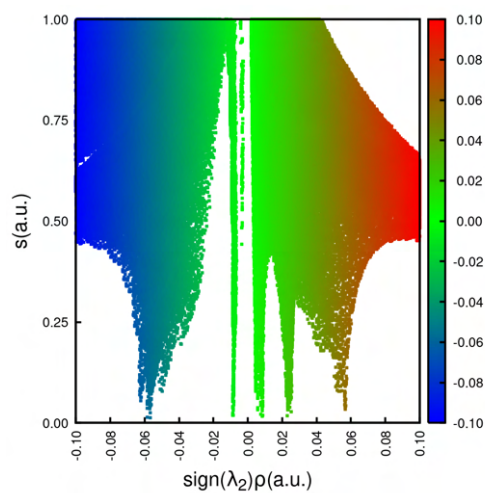


Side view

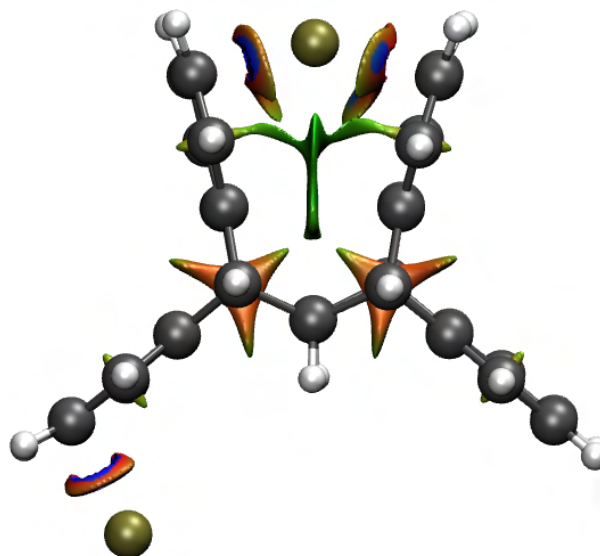


Top view

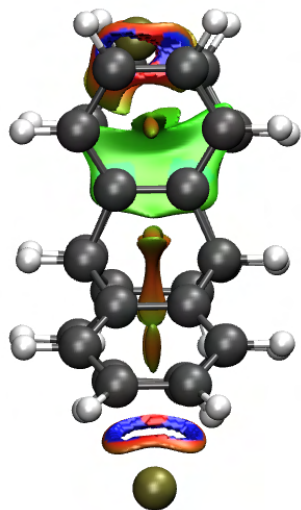
Figure S60: NCI images of system 2b.



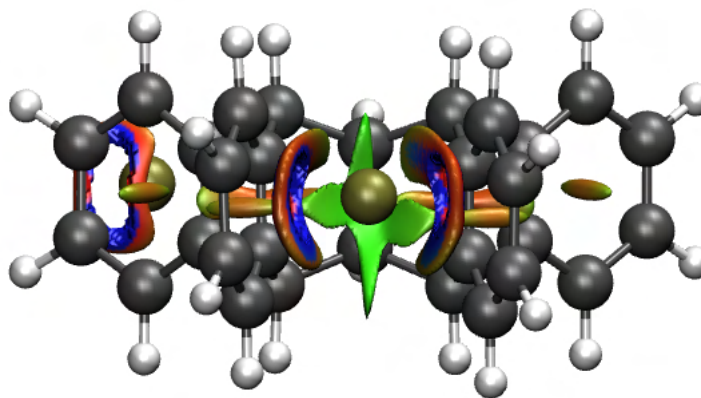
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



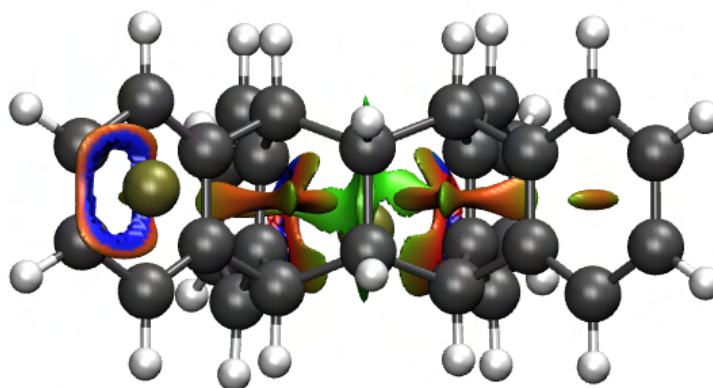
Front view



Side view

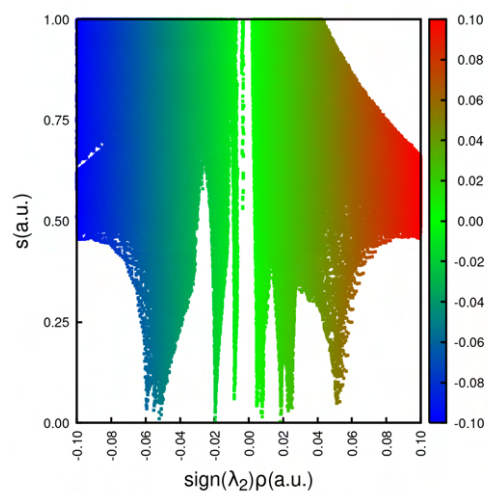


Top view

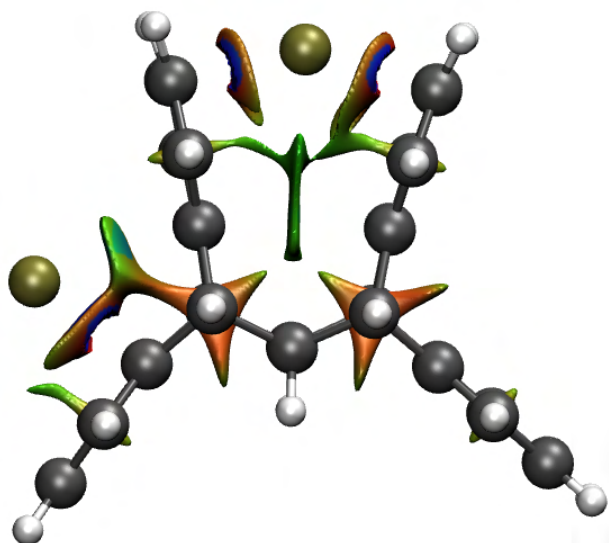


Bottom view

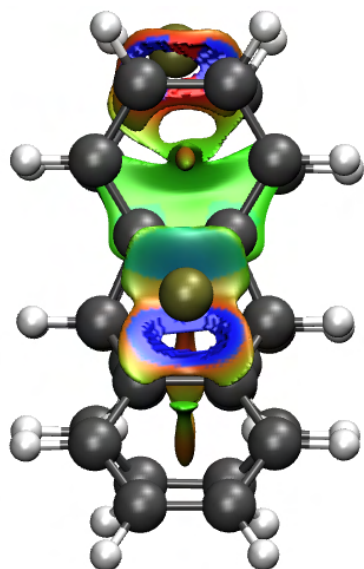
Figure S61: NCI images of system 2c.



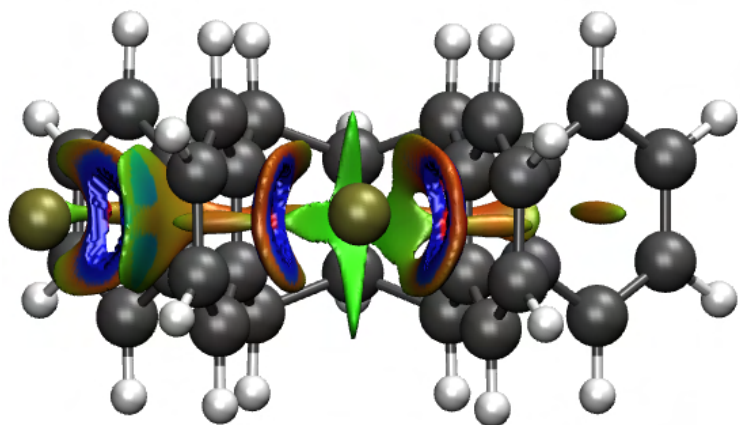
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

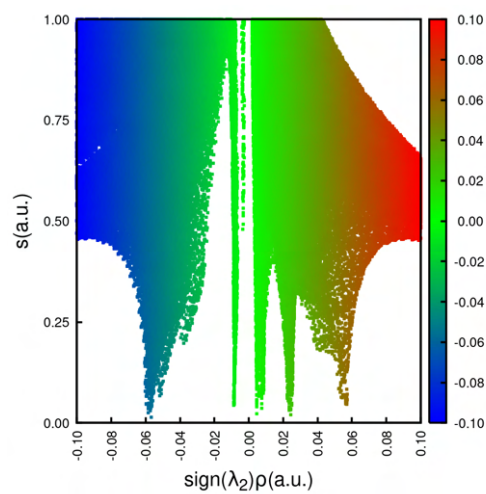


Side view

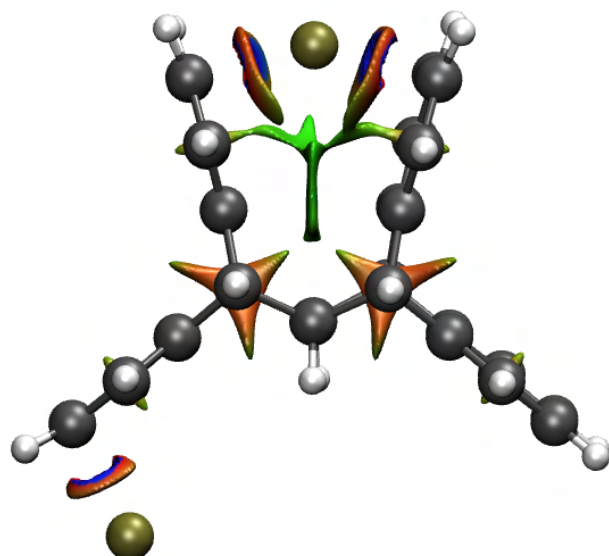


Top view

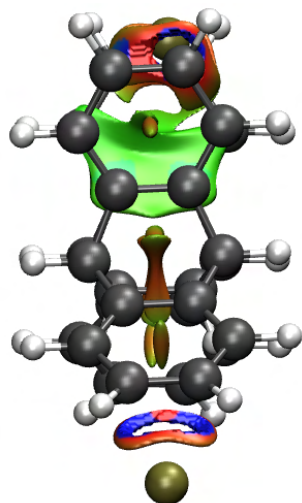
Figure S62: NCI images of system 2d.



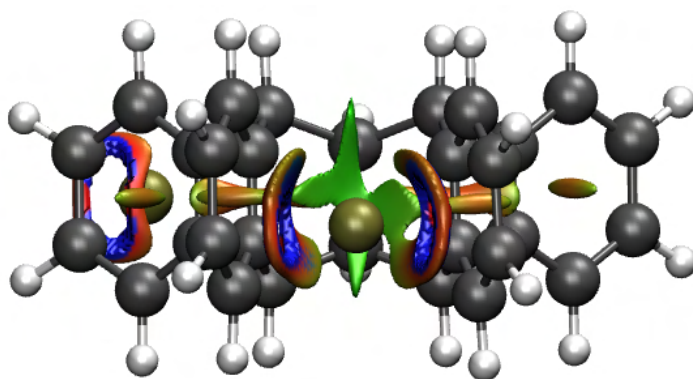
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



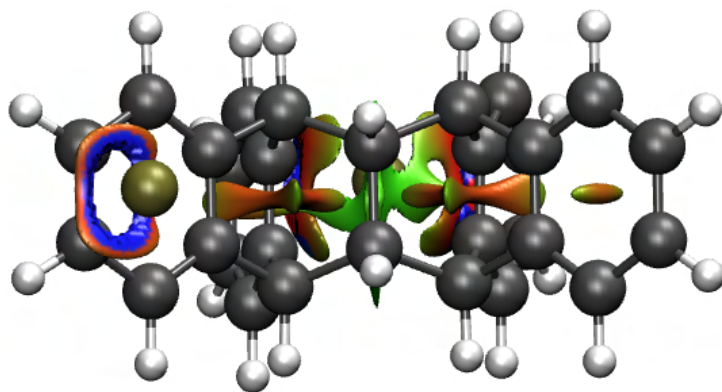
Front view



Side view

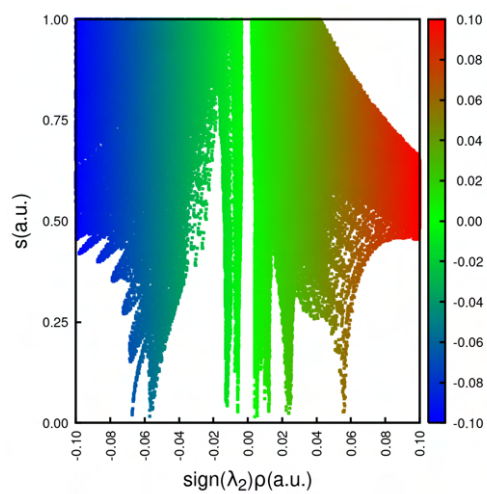


Top view

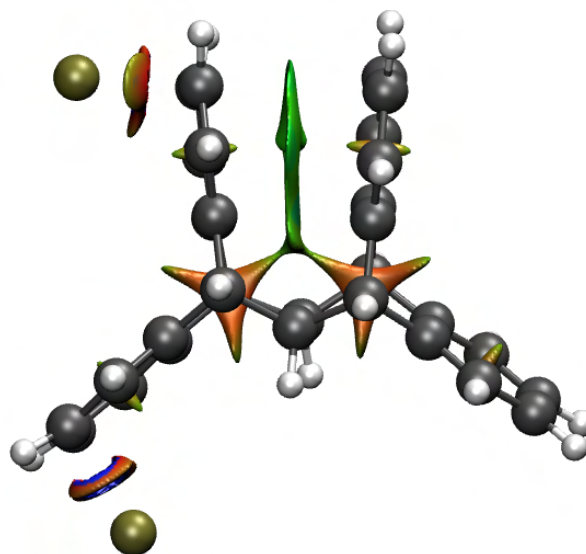


Bottom view

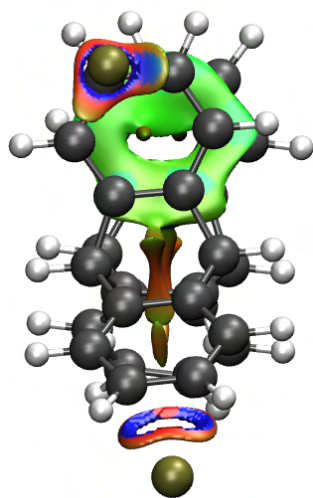
Figure S63: NCI images of system 2e.



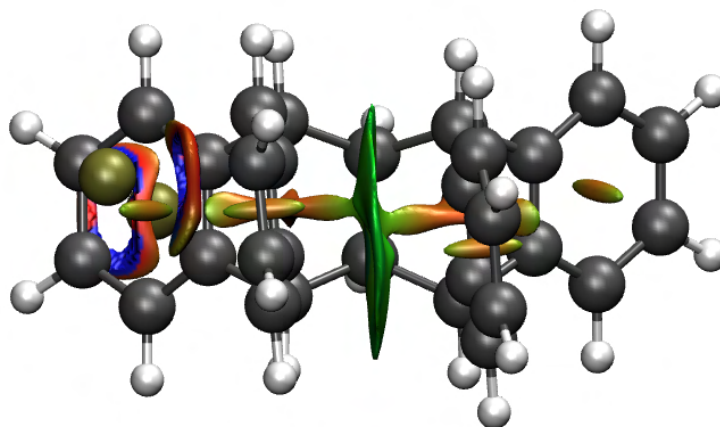
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



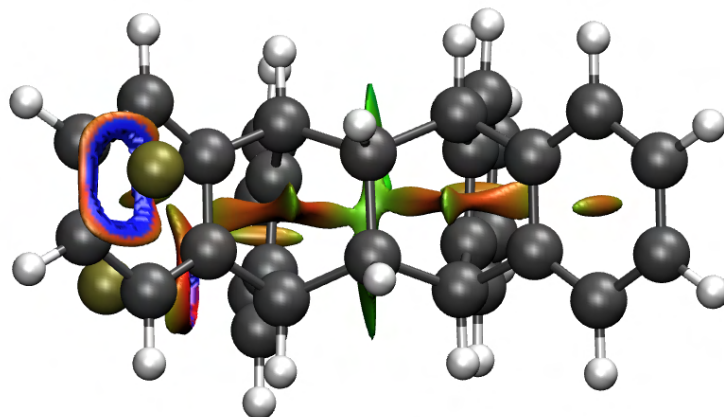
Front view



Side view

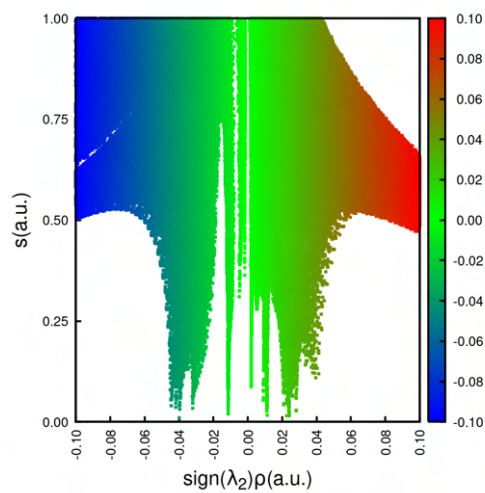


Top view

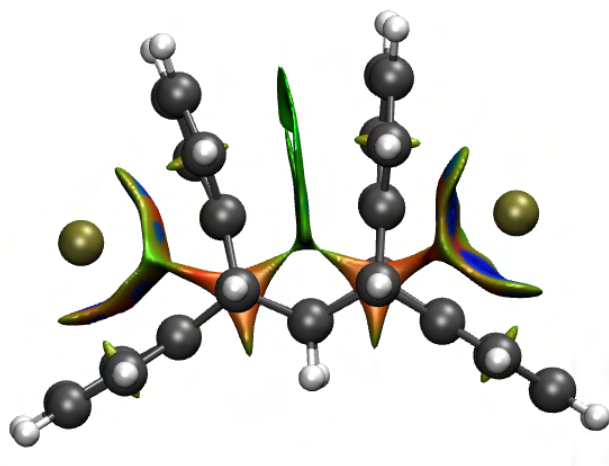


Bottom view

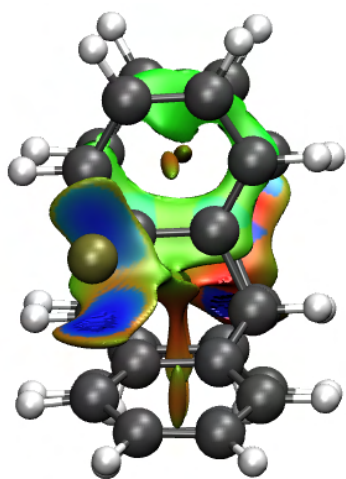
Figure S64: NCI images of system 2f.



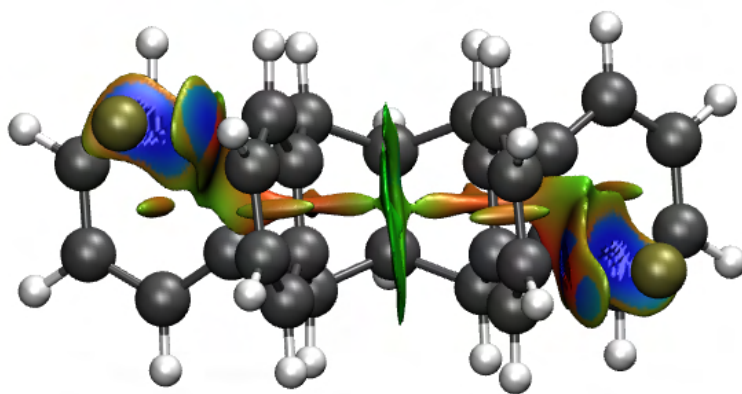
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

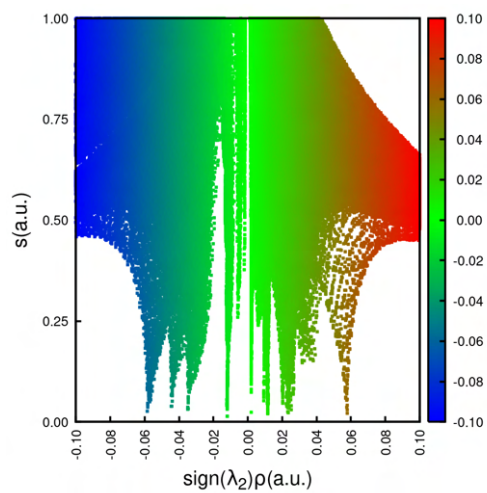


Side view

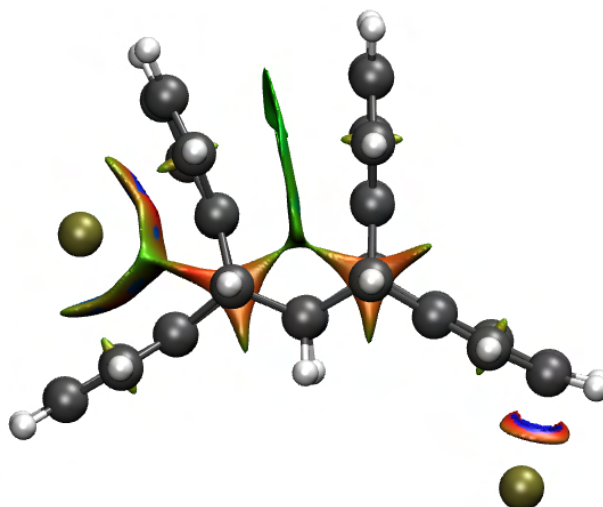


Top view

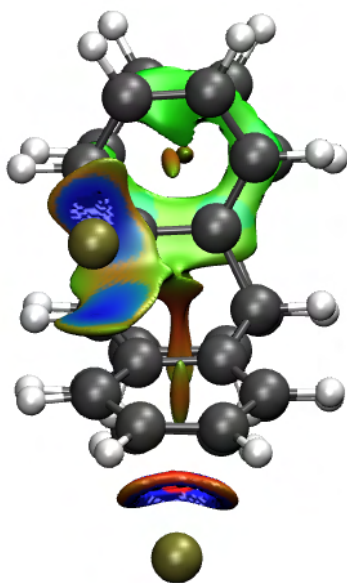
Figure S65: NCI images of system 2g.



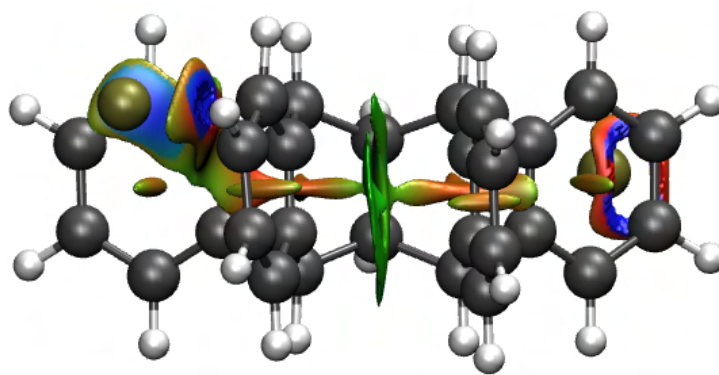
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



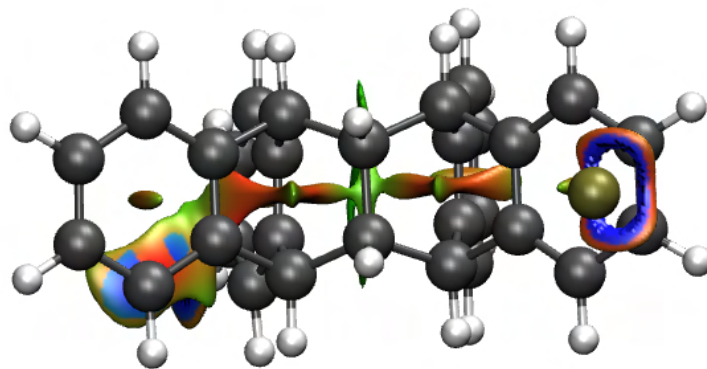
Front view



Side view

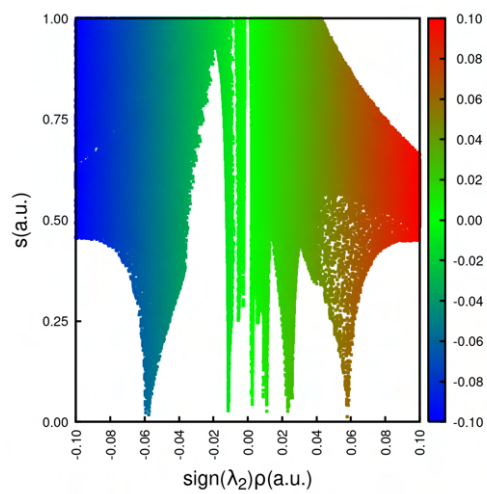


Top view

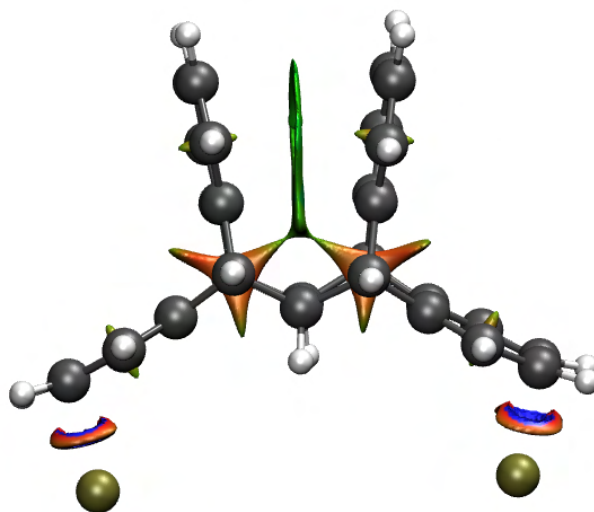


Bottom view

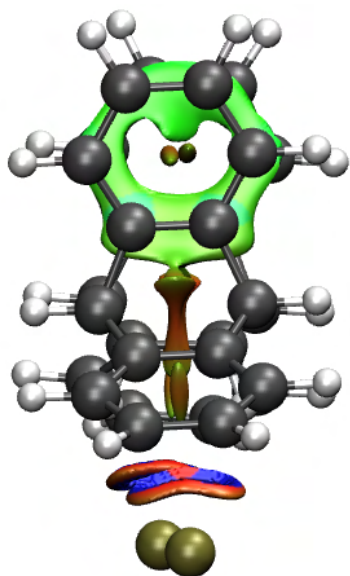
Figure S66: NCI images of system 2h.



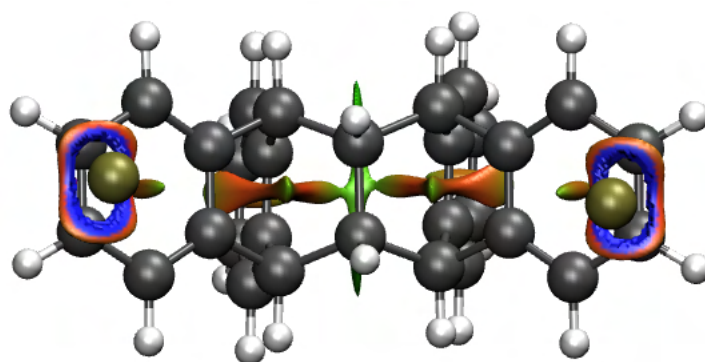
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view



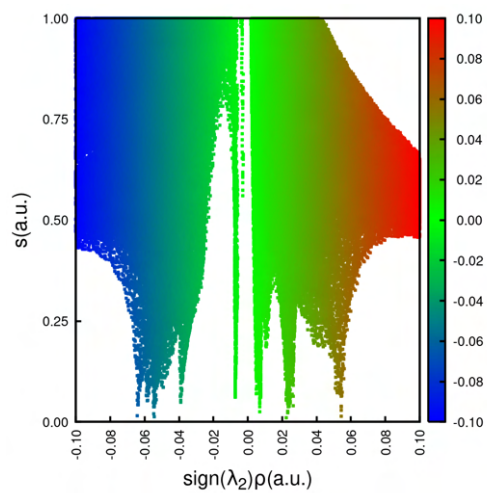
Side view



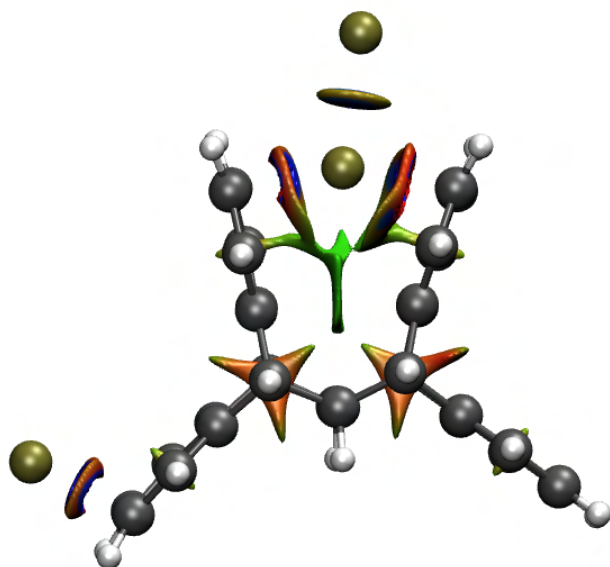
Bottom view

Figure S67: NCI images of system 2i.

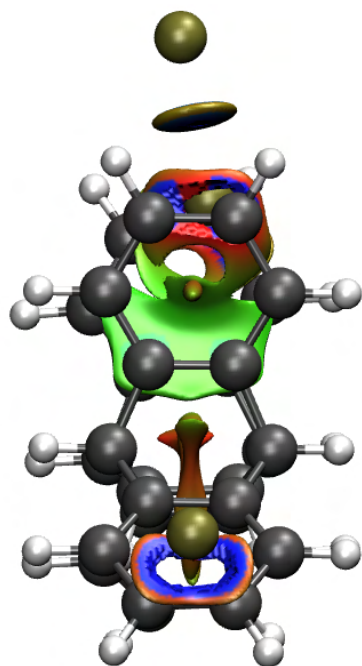
3Ag Systems



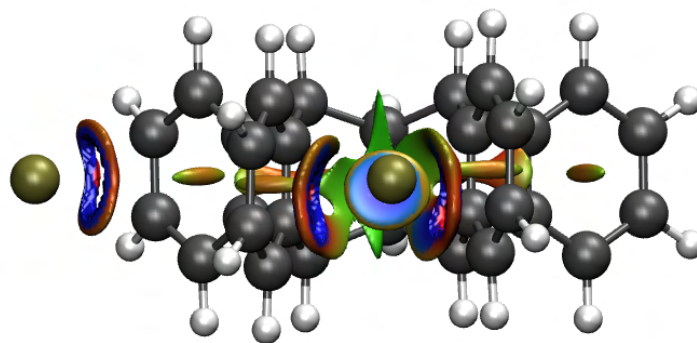
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

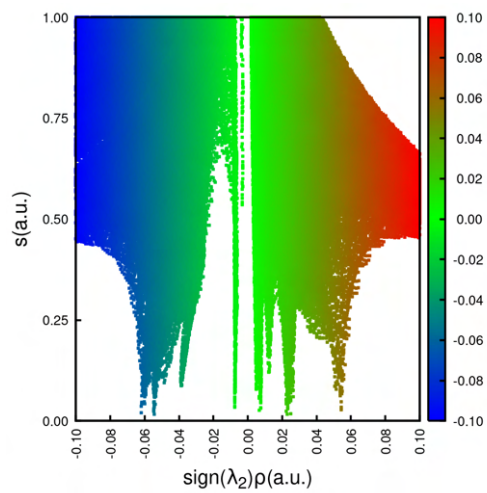


Side view

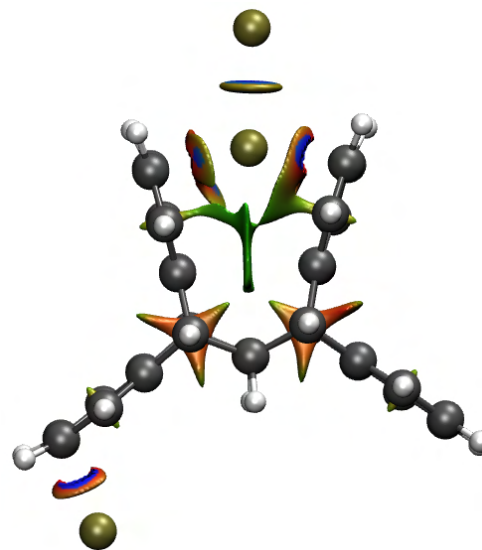


Top view

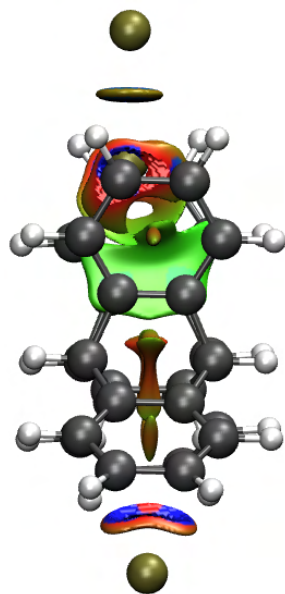
Figure S68: NCI images of system 3a.



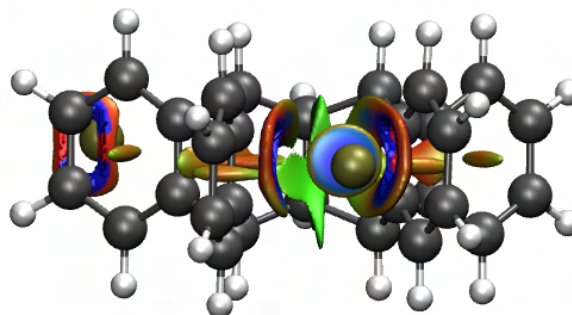
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



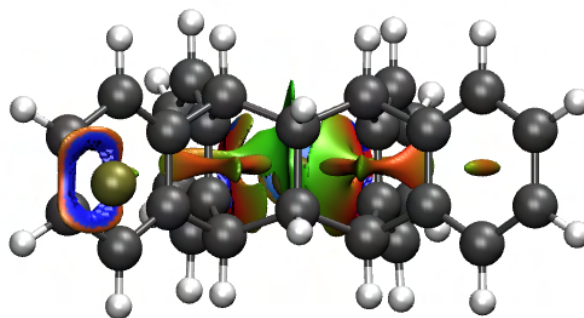
Front view



Side view

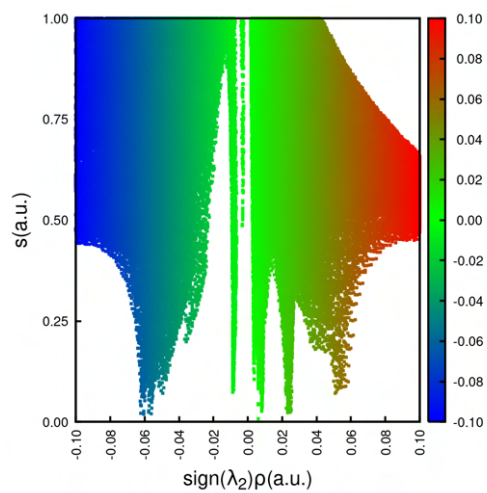


Top view

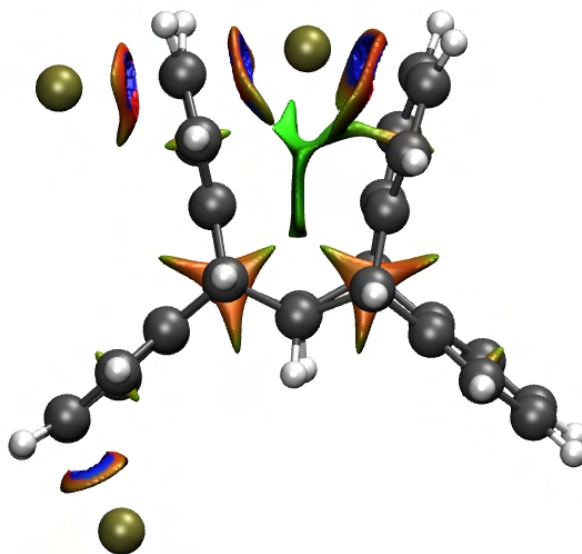


Bottom view

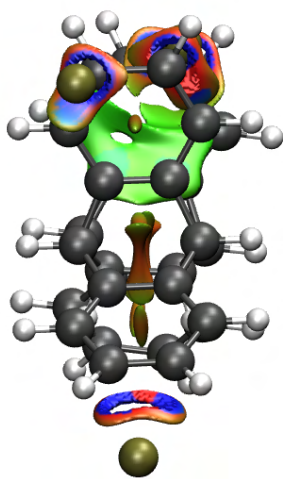
Figure S69: NCI images of system 3b.



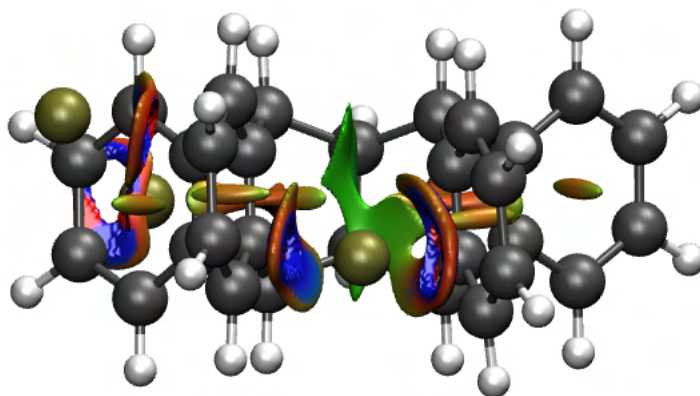
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



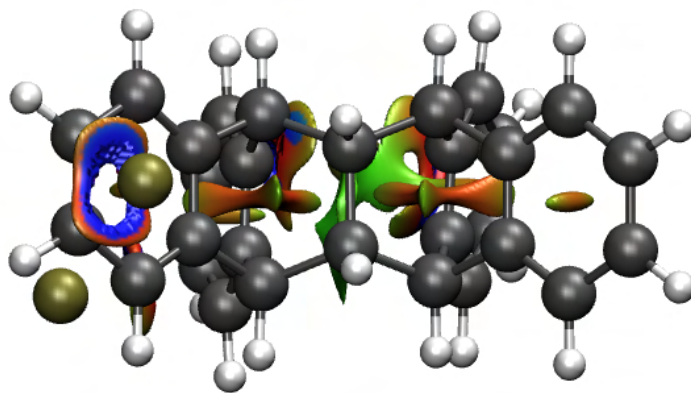
Front view



Side view

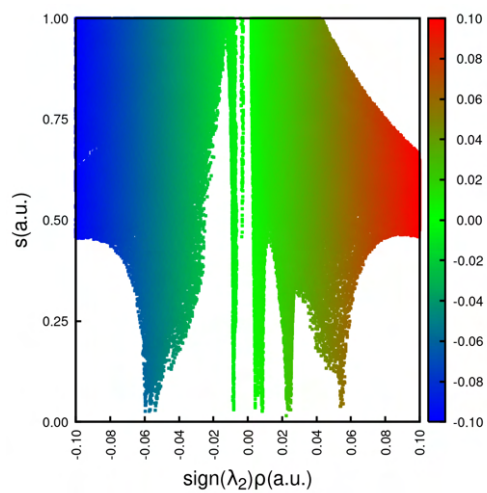


Top view

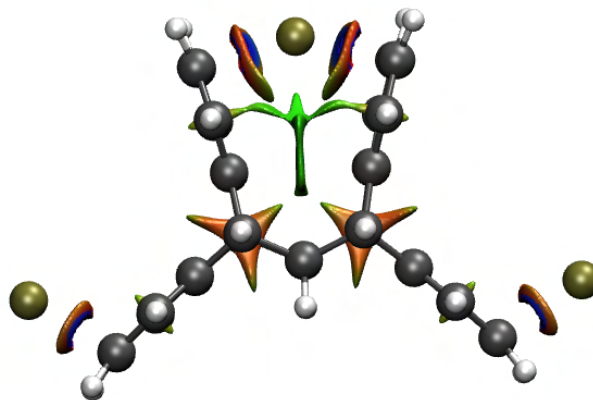


Bottom view

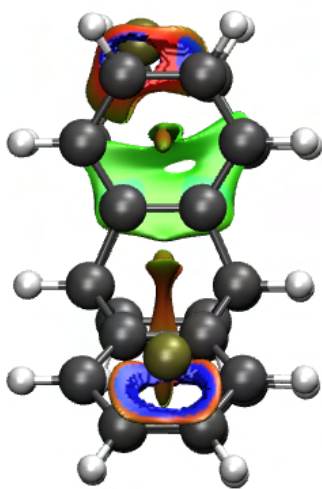
Figure S70: NCI images of system 3c.



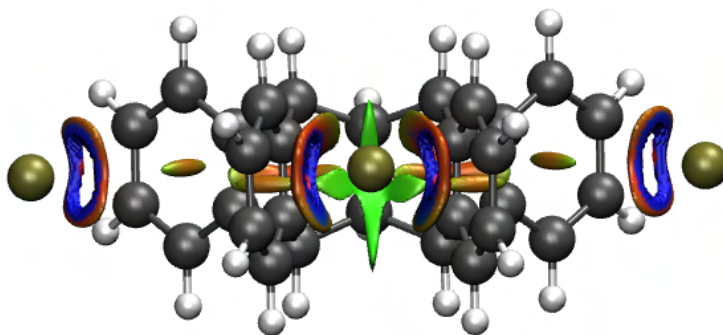
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

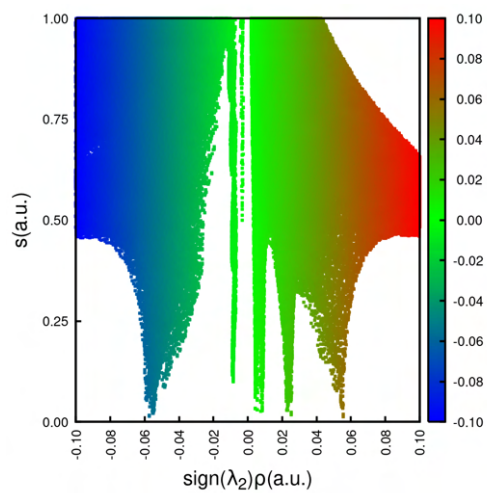


Side view

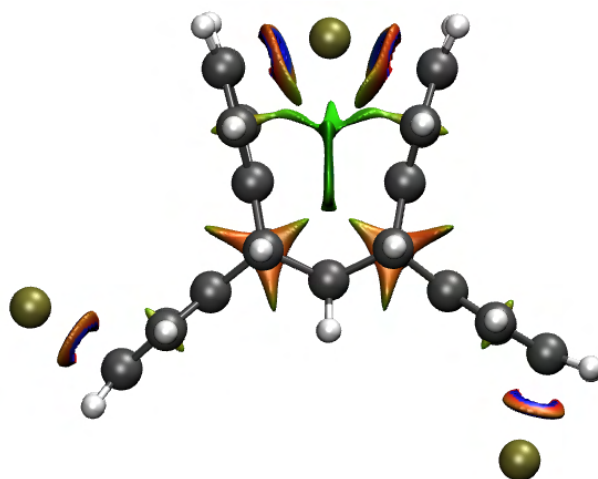


Top view

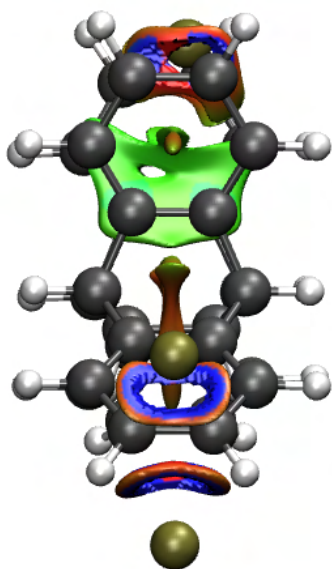
Figure S71: NCI images of system 3d.



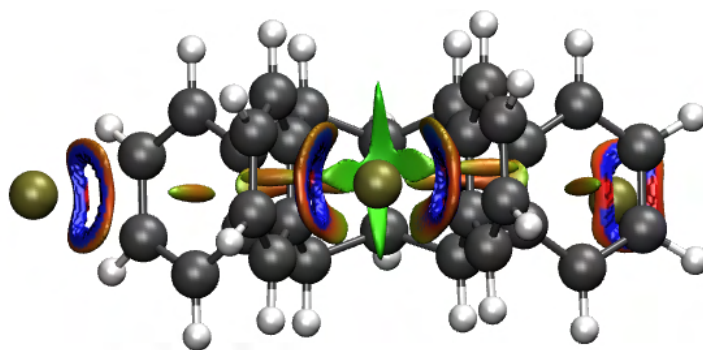
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



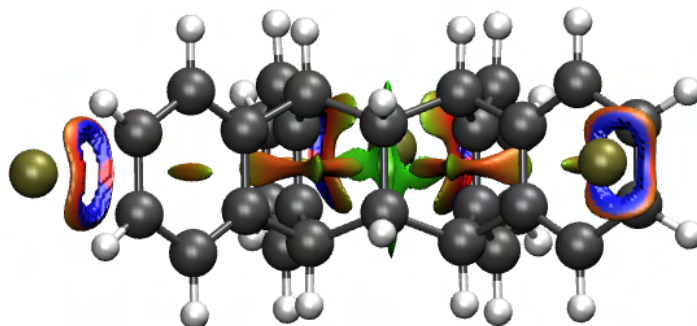
Front view



Side view

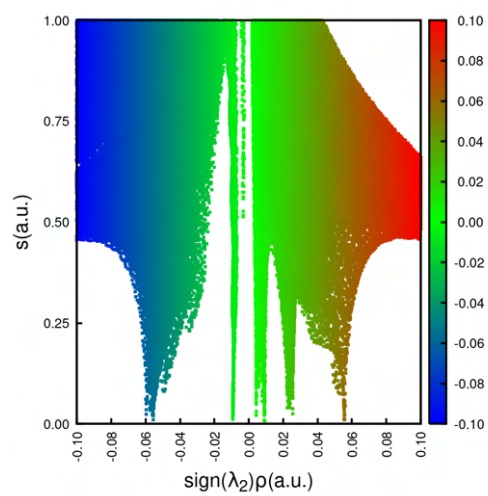


Top view

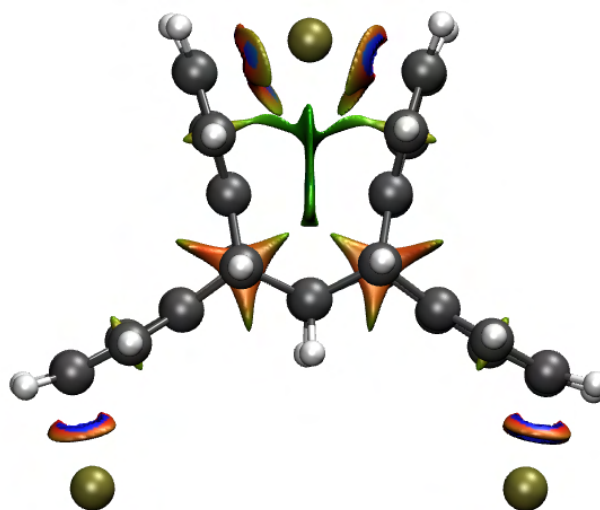


Bottom view

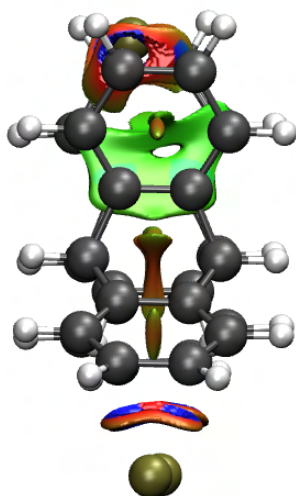
Figure S72: NCI images of system 3e.



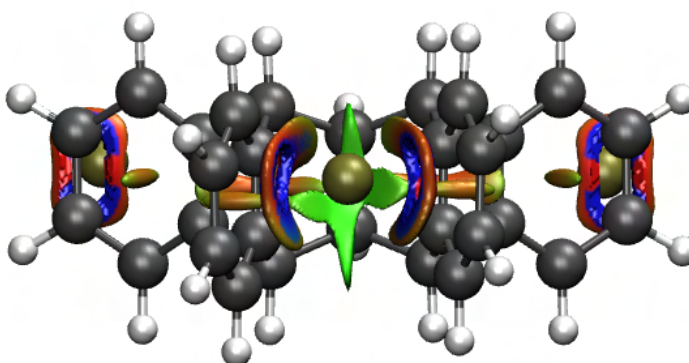
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



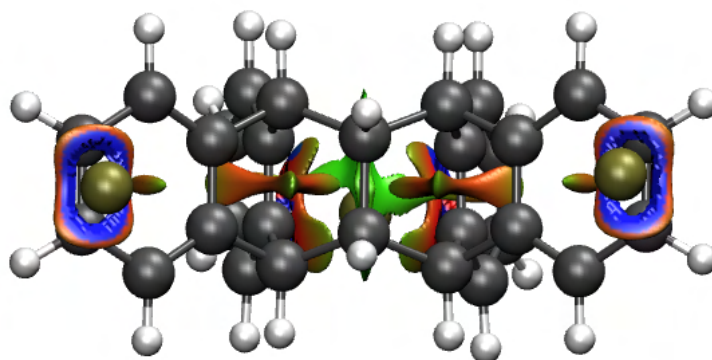
Front view



Side view

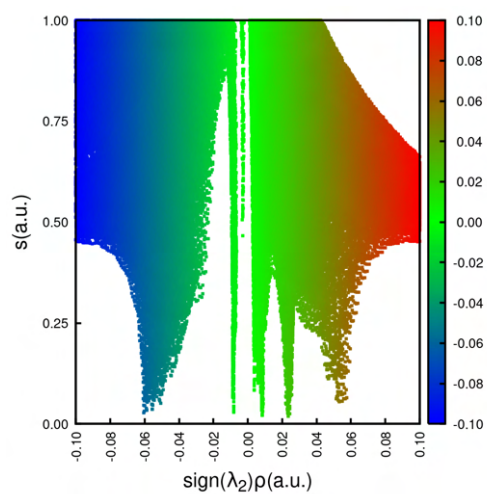


Top view

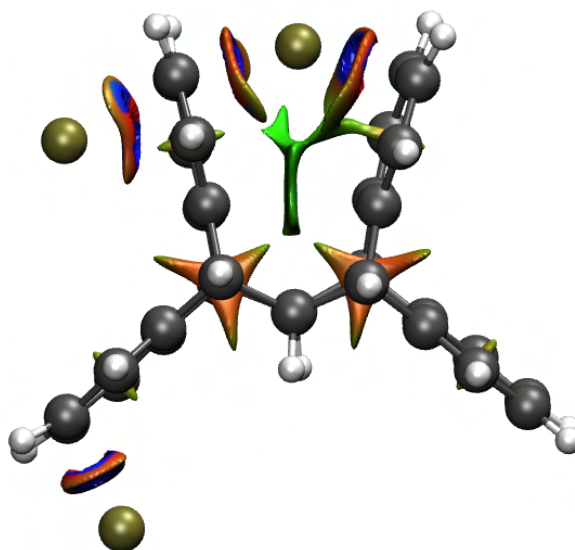


Bottom view

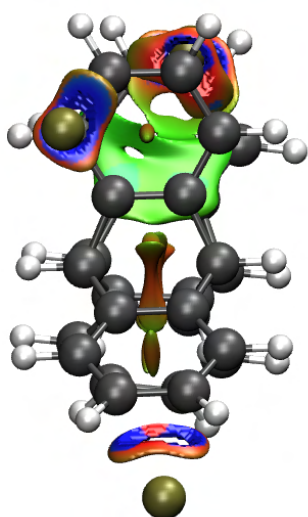
Figure S73: NCI images of system 3f.



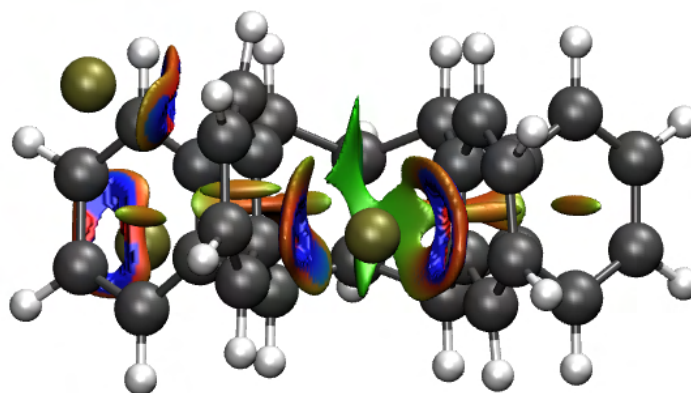
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



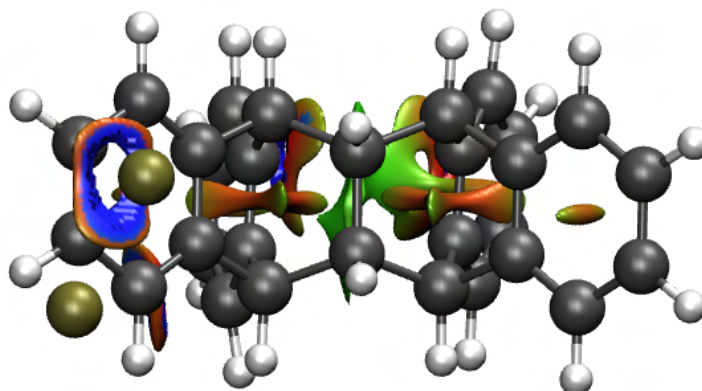
Front view



Side view

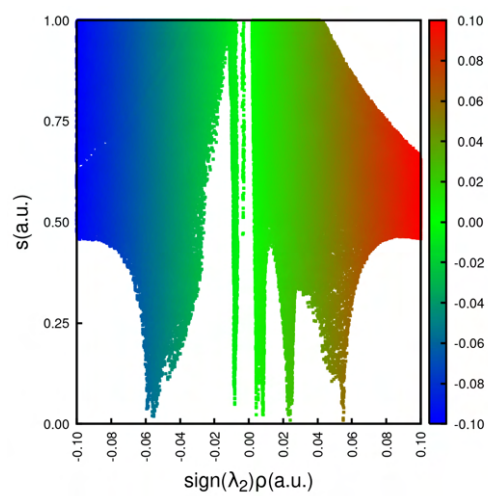


Top view

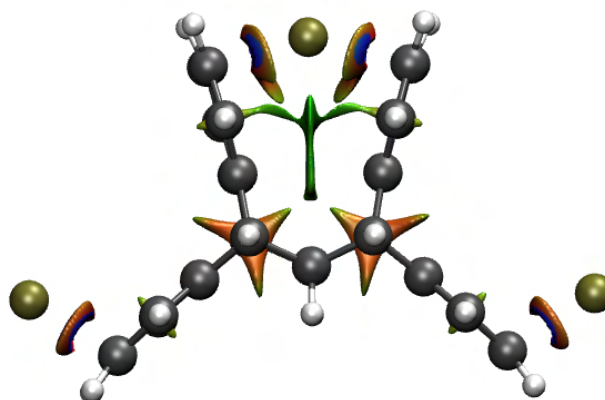


Bottom view

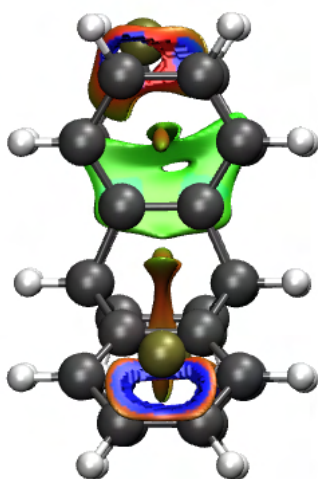
Figure S74: NCI images of system 3g.



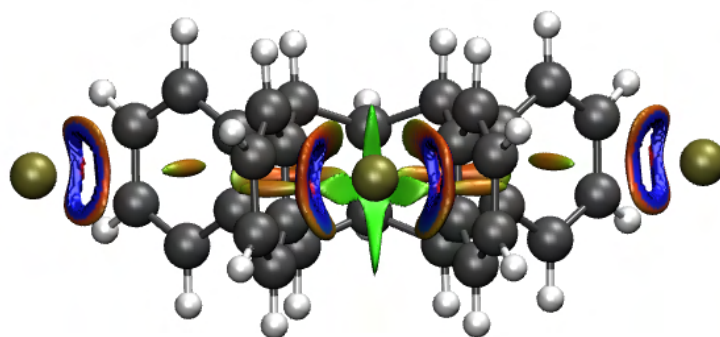
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view

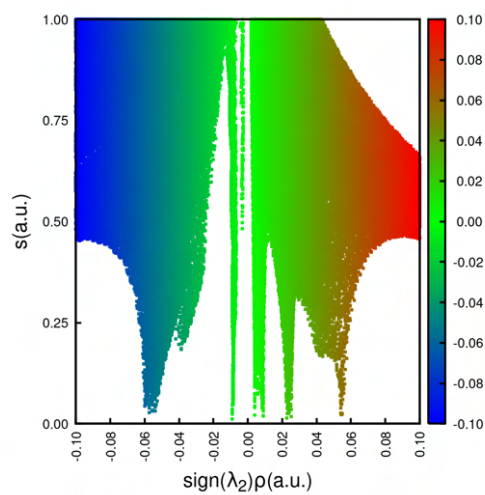


Side view

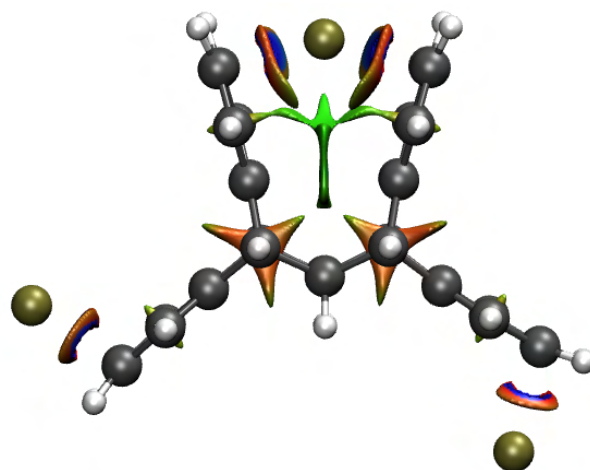


Top view

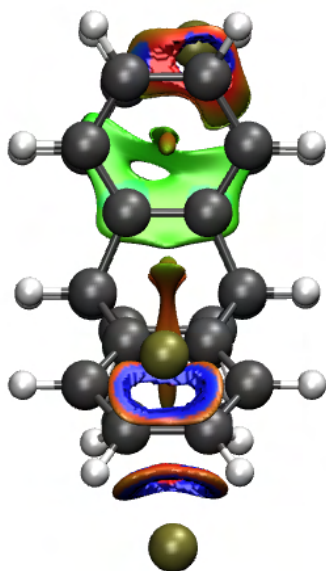
Figure S75: NCI images of system 3h.



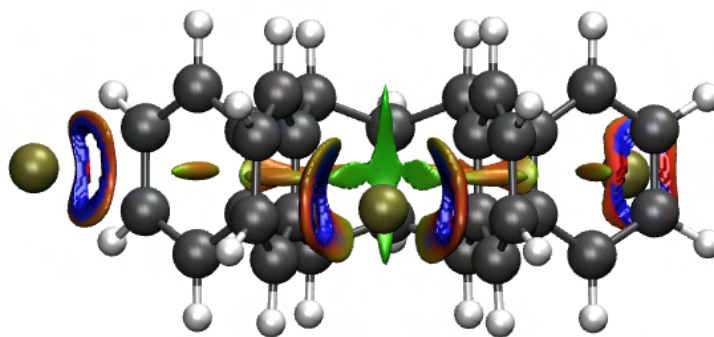
Plot of the RDG $\times \text{sign}(\lambda_2)\rho$



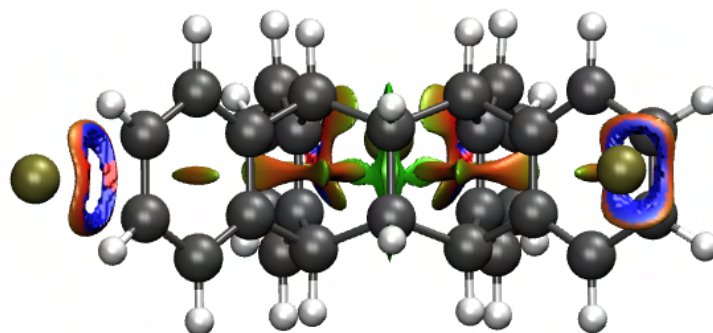
Front view



Side view

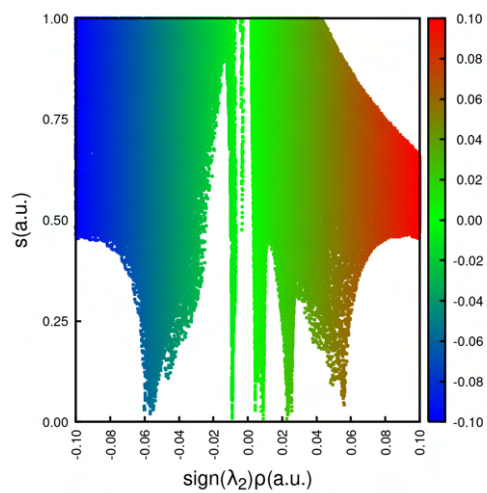


Top view

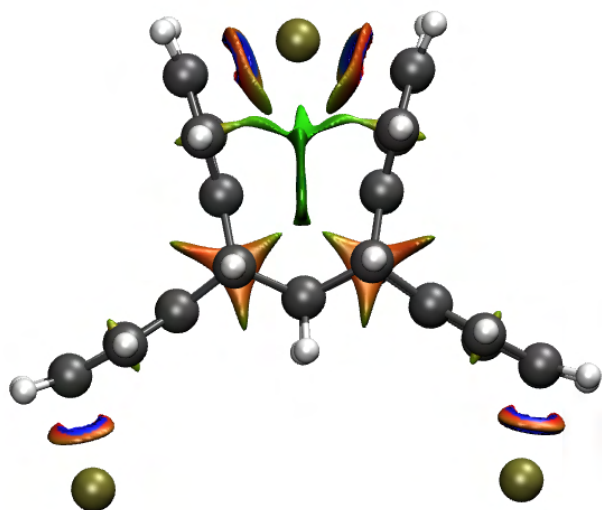


Bottom view

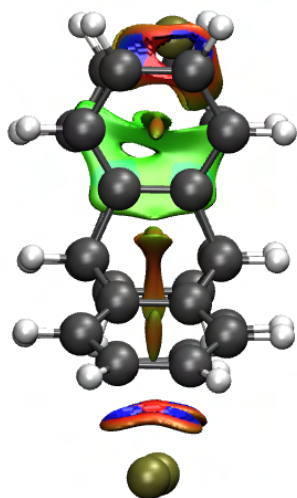
Figure S76: NCI images of system 3i.



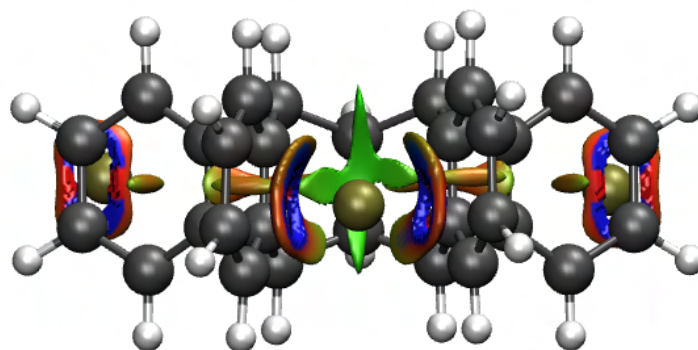
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



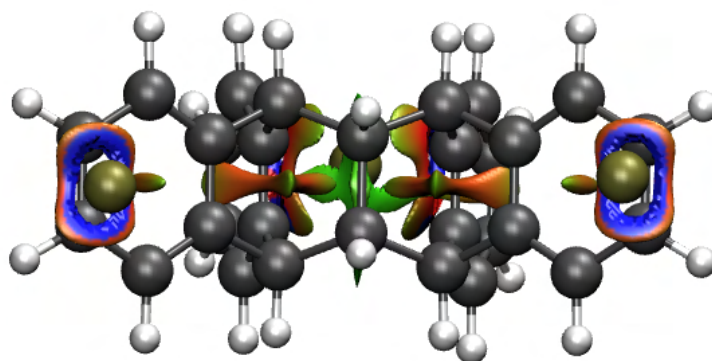
Front view



Side view

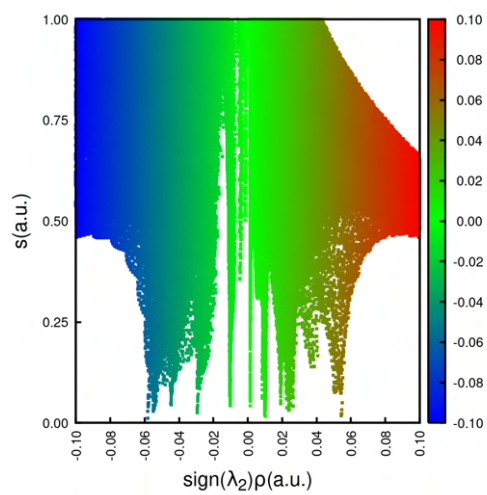


Top view

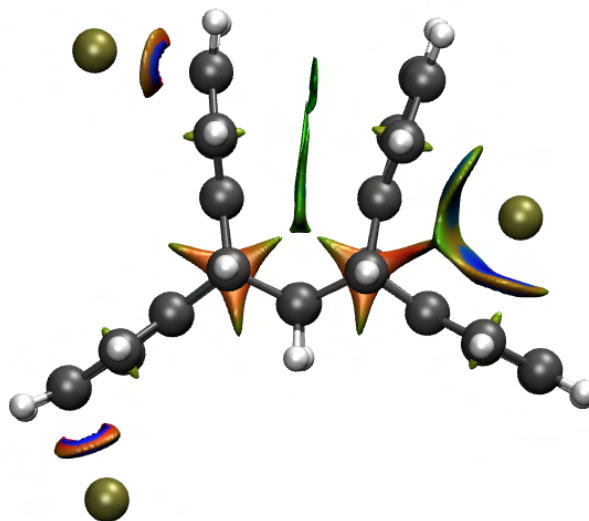


Bottom view

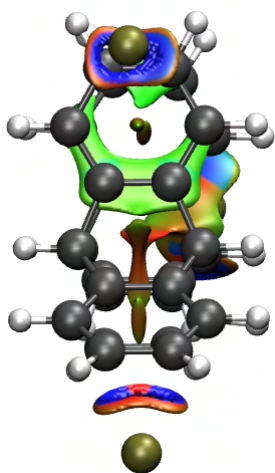
Figure S77: NCI images of system 3j.



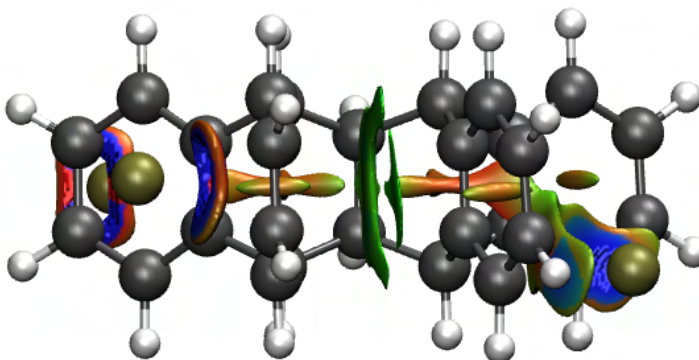
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



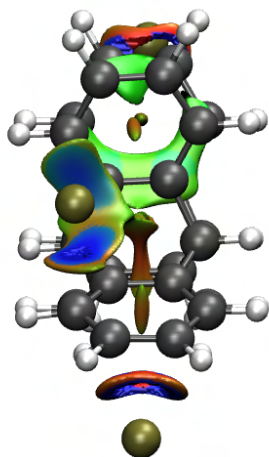
Front view



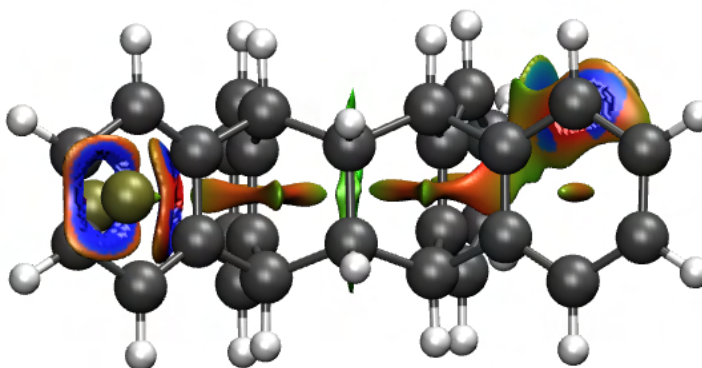
Side view



Top view

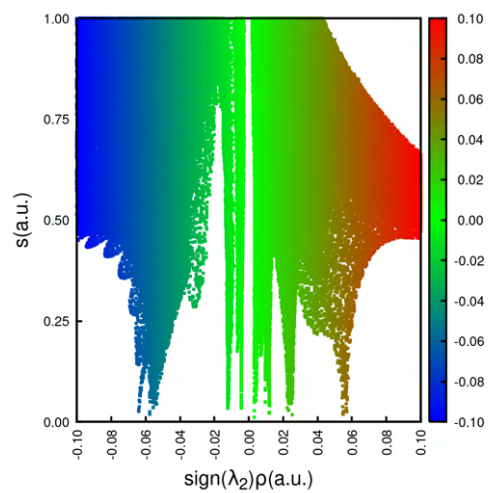


Side view B

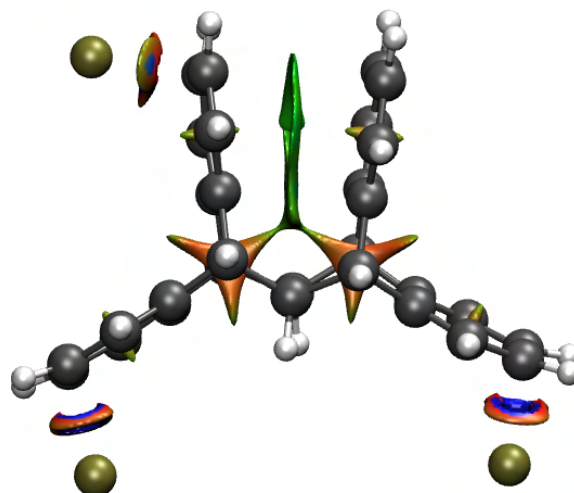


Bottom view

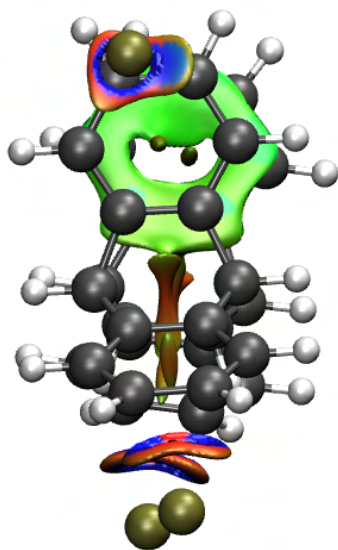
Figure S78: NCI images of system 3k.



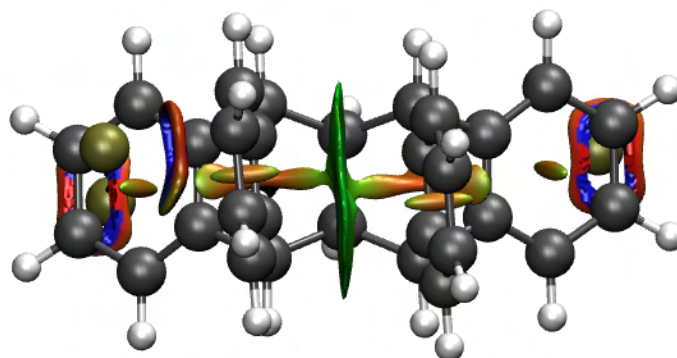
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



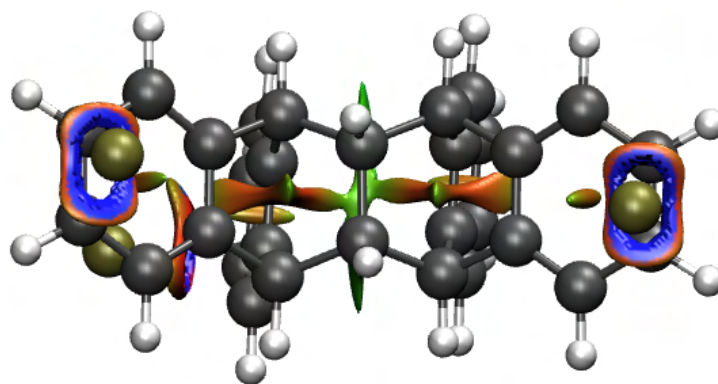
Front view



Side view



Top view



Bottom view

Figure S79: NCI images of system 3l.

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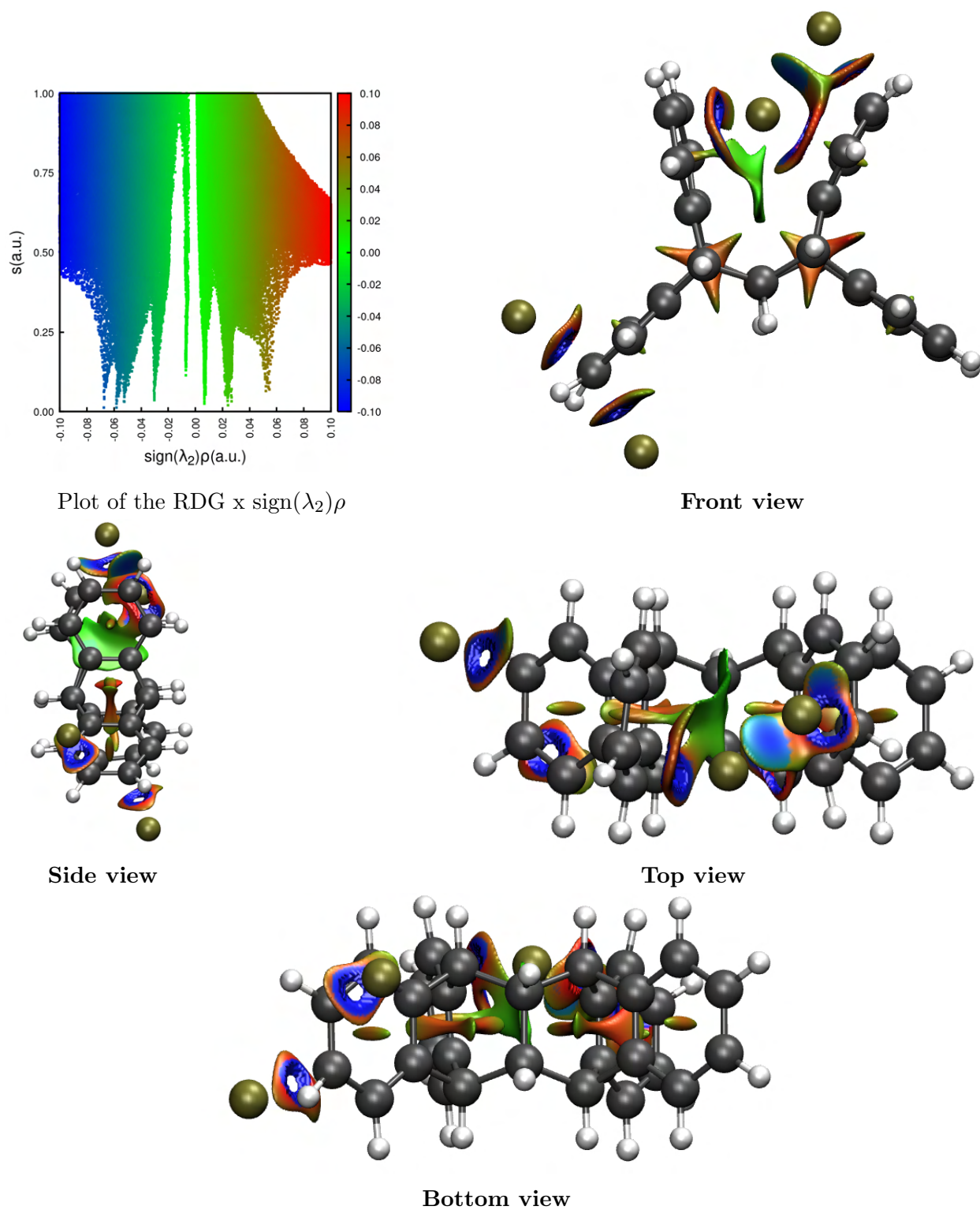
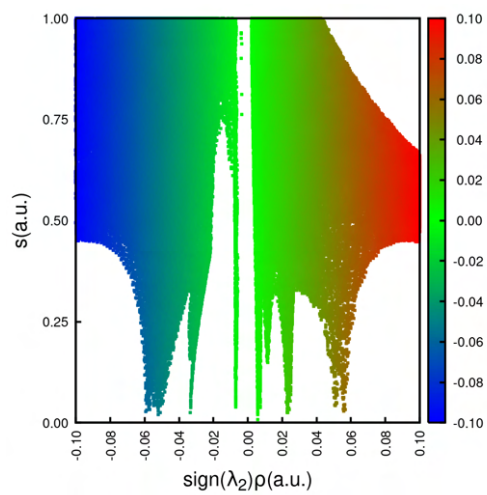
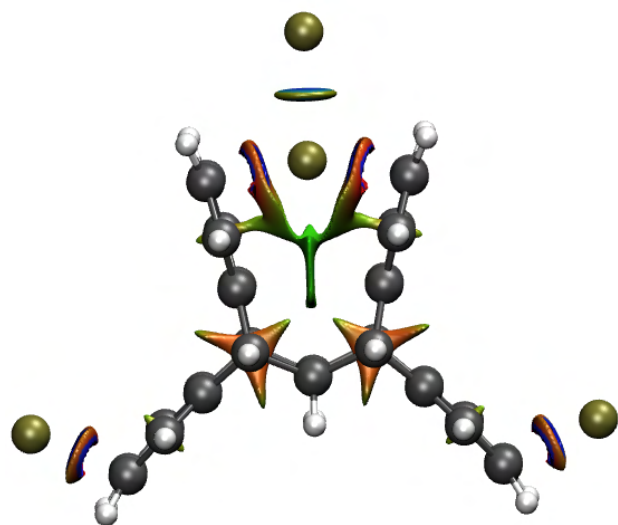


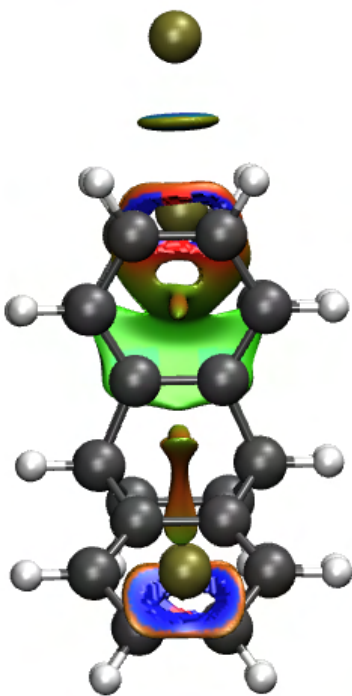
Figure S80: NCI images of system 4a.



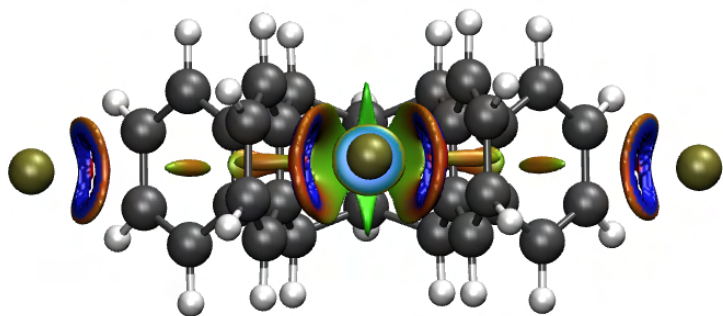
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



Front view



Side view



Top view

Figure S81: NCI images of system 4b.

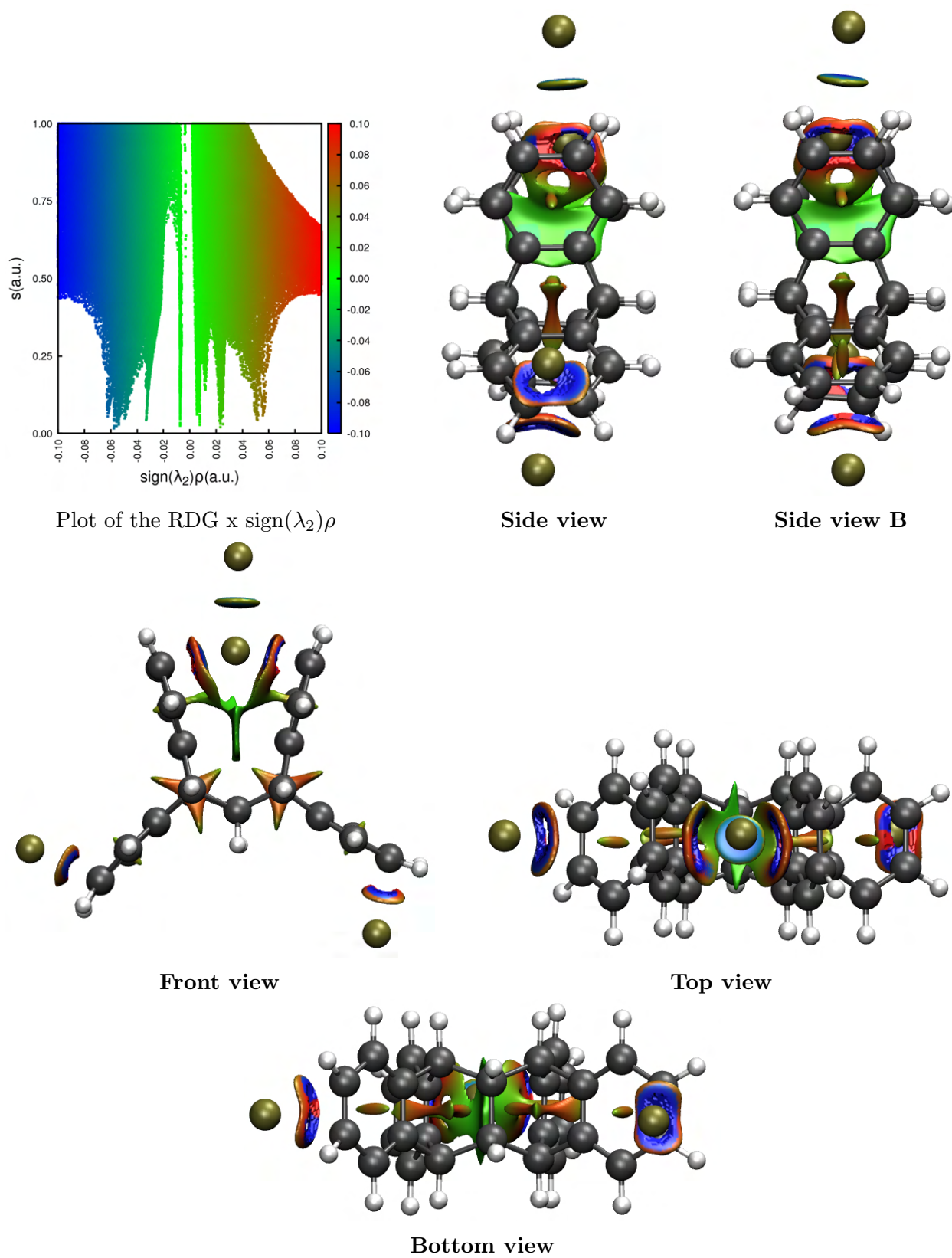
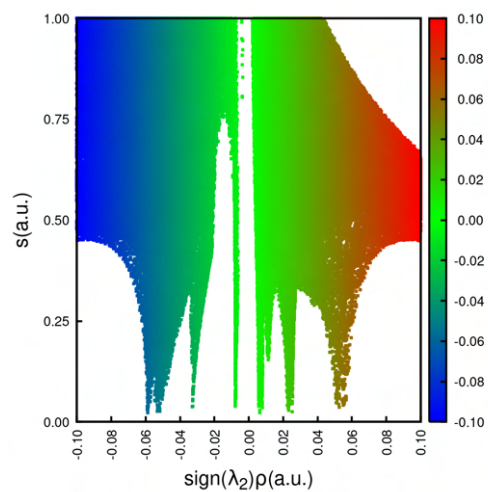
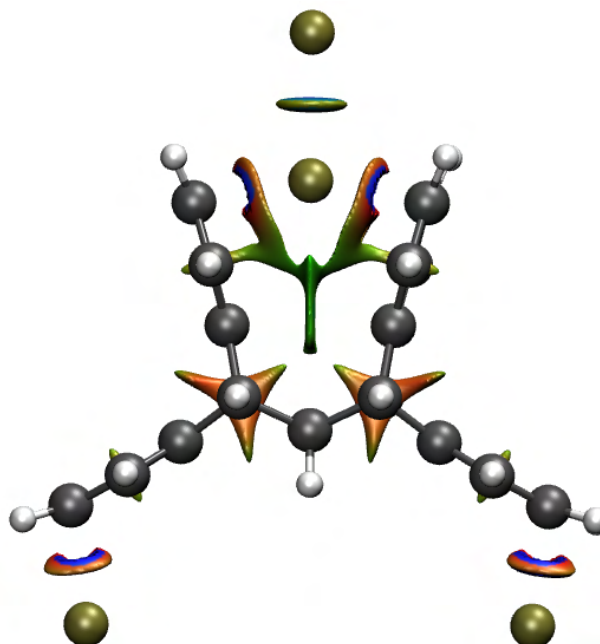


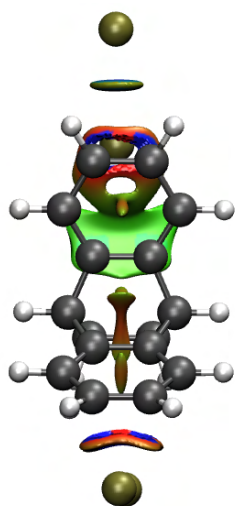
Figure S82: NCI images of system 4c.



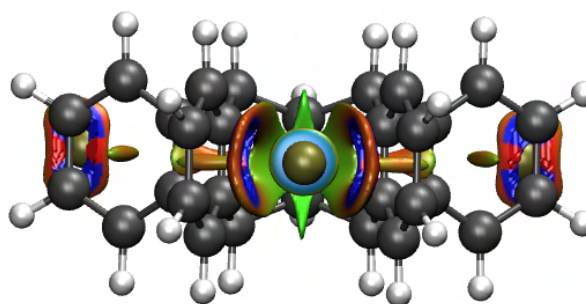
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



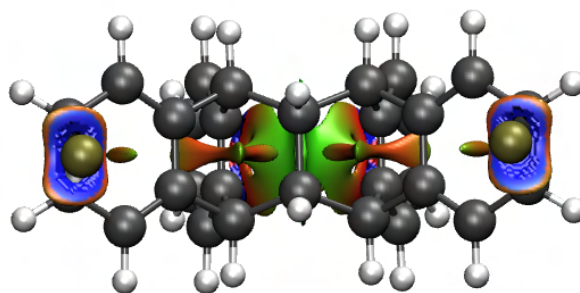
Front view



Side view

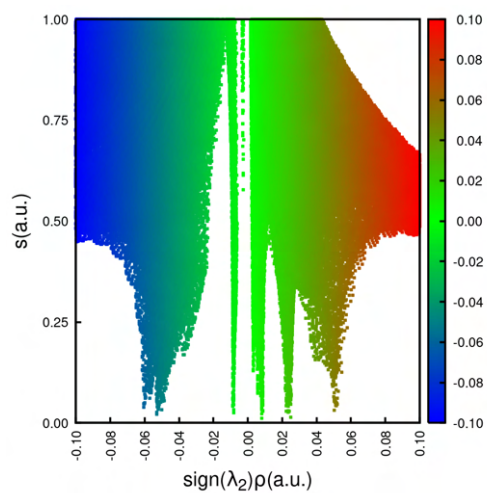


Top view

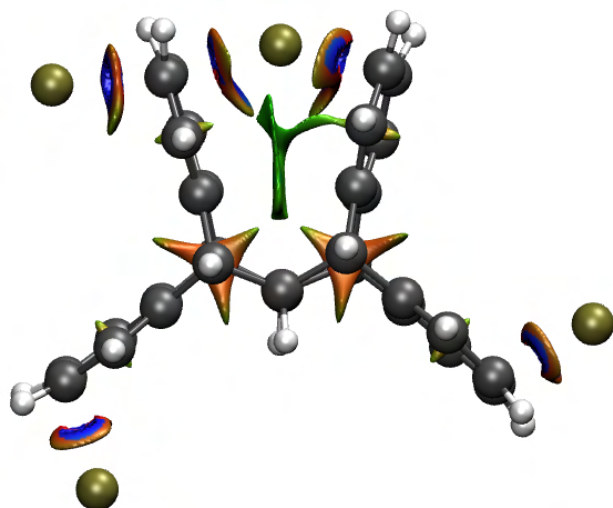


Bottom view

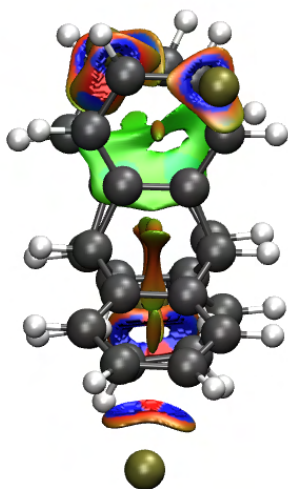
Figure S83: NCI images of system 4d.



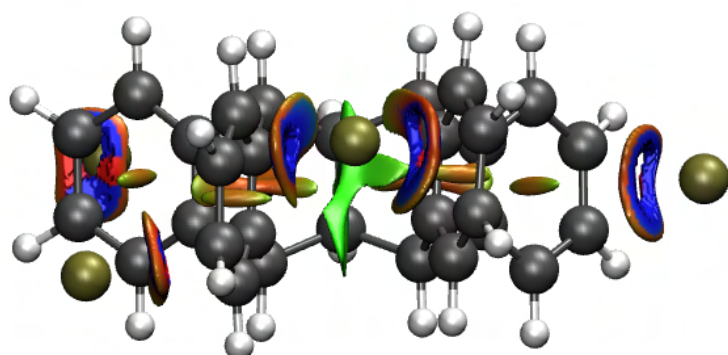
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



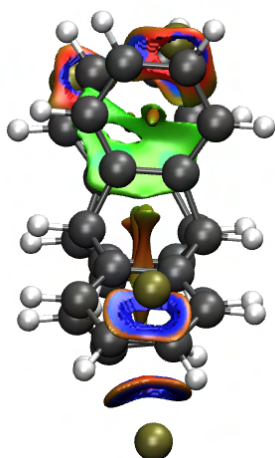
Front view



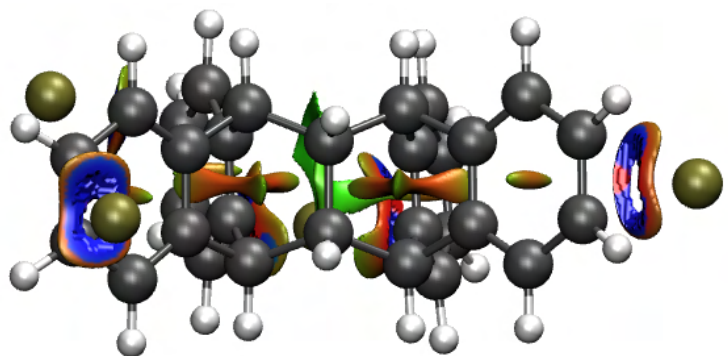
Side view



Top view

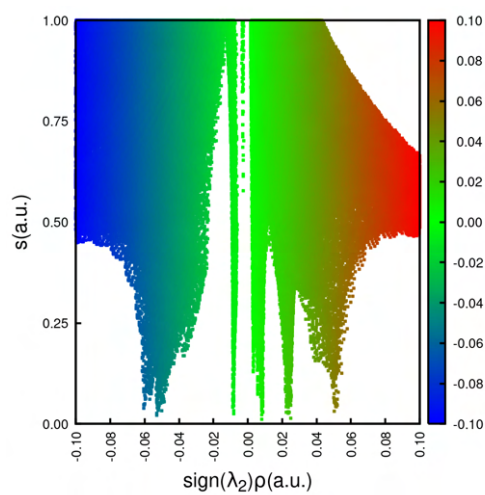


Side view B

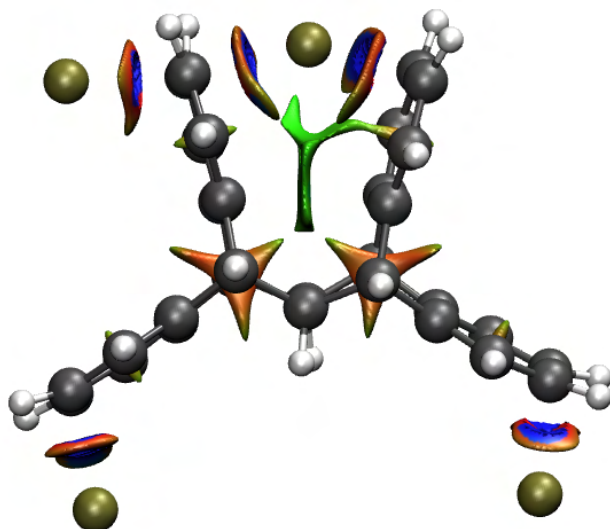


Bottom view

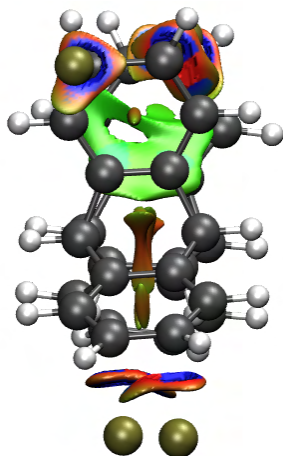
Figure S84: NCI images of system 4e.



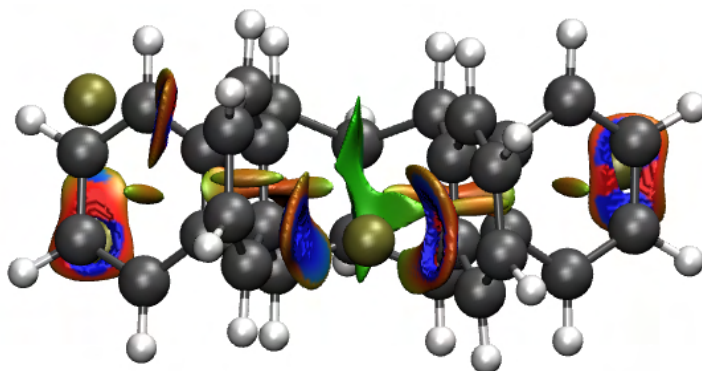
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



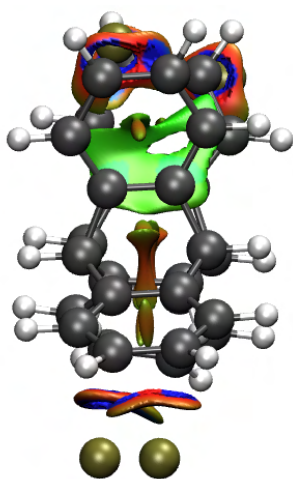
Front view



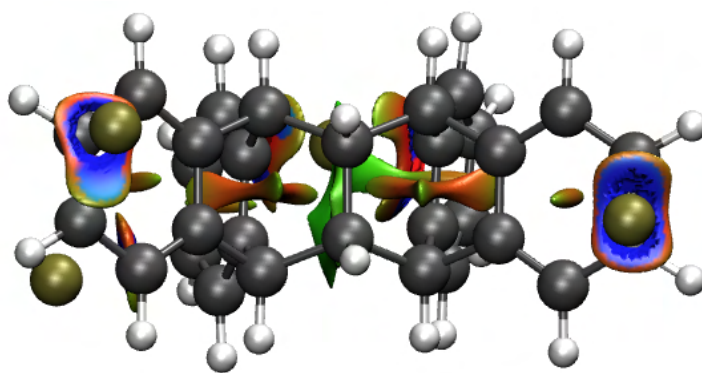
Side view



Top view

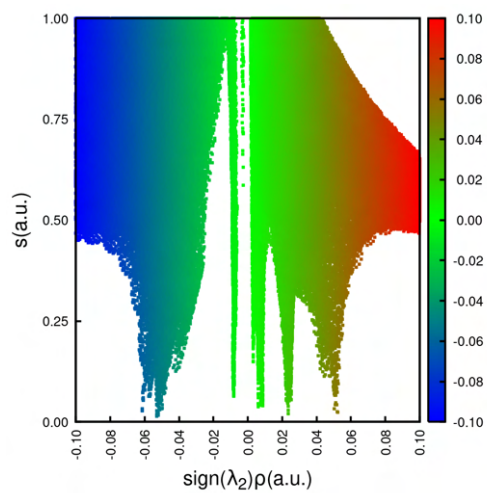


Side view B

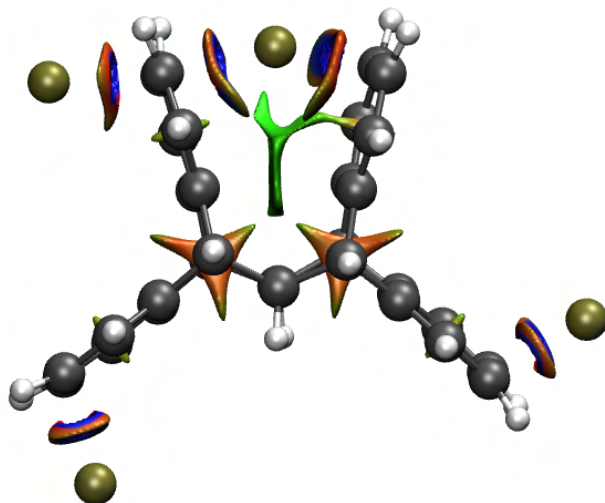


Bottom view

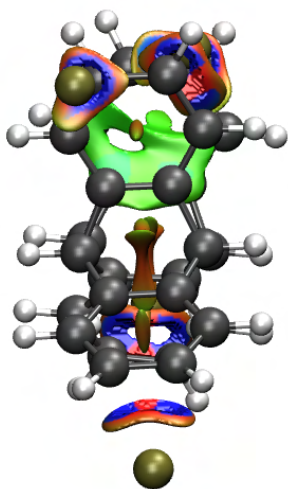
Figure S85: NCI images of system 4f.



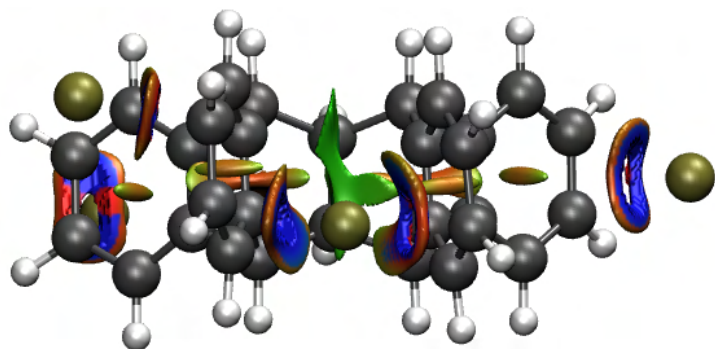
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



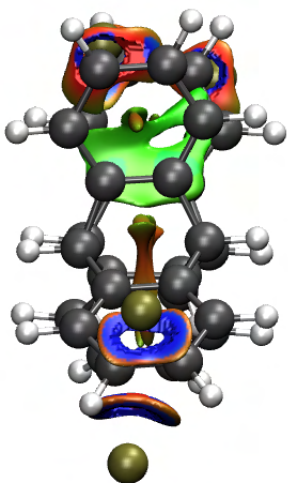
Front view



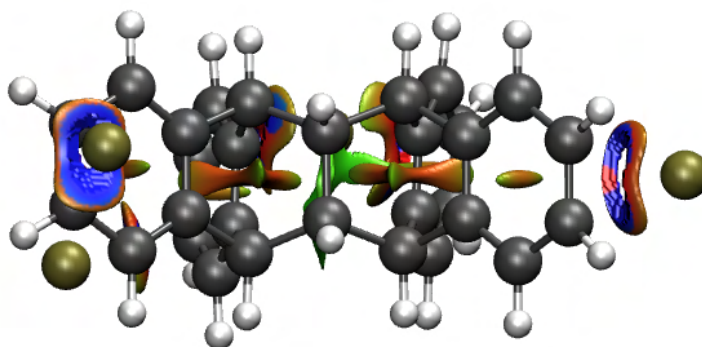
Side view



Top view

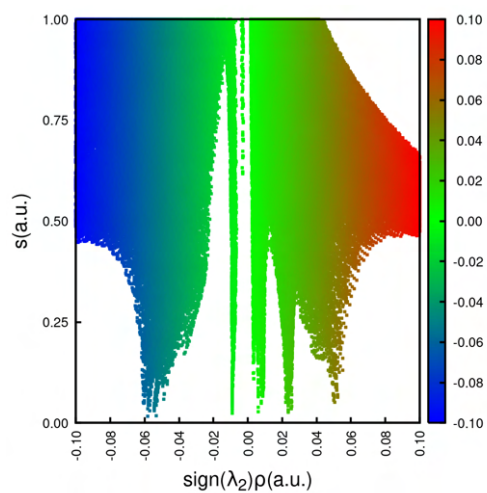


Side view B

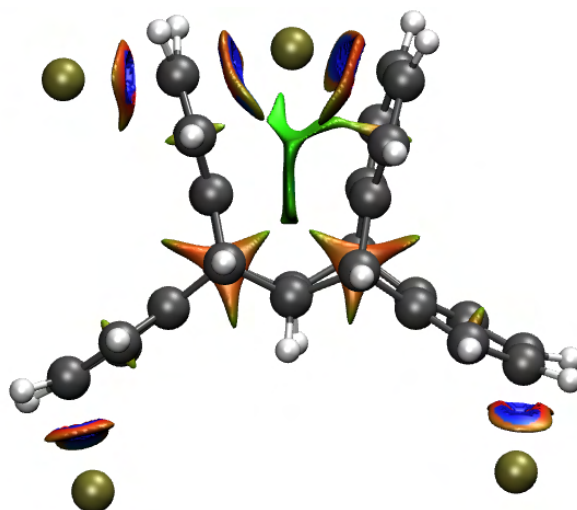


Bottom view

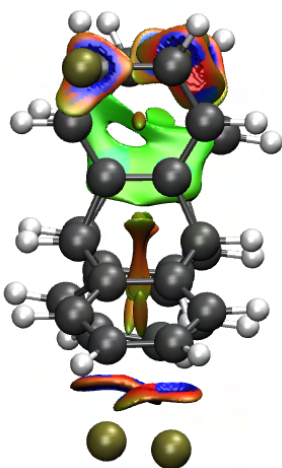
Figure S86: NCI images of system 4g.



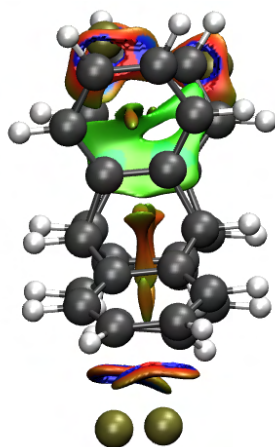
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



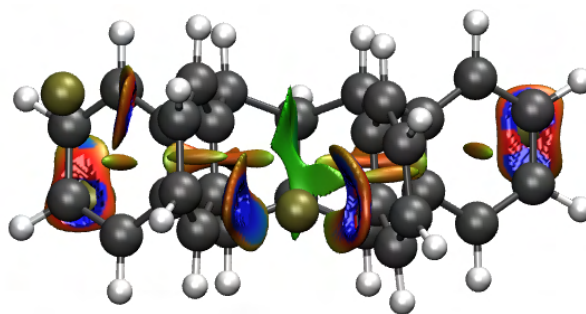
Front view



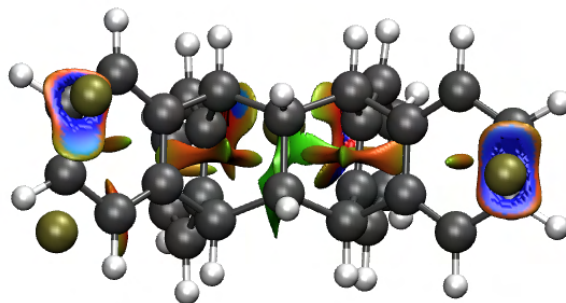
Side view



Side view B

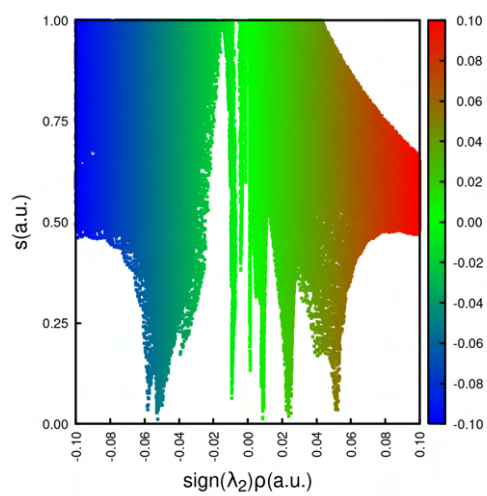


Top view

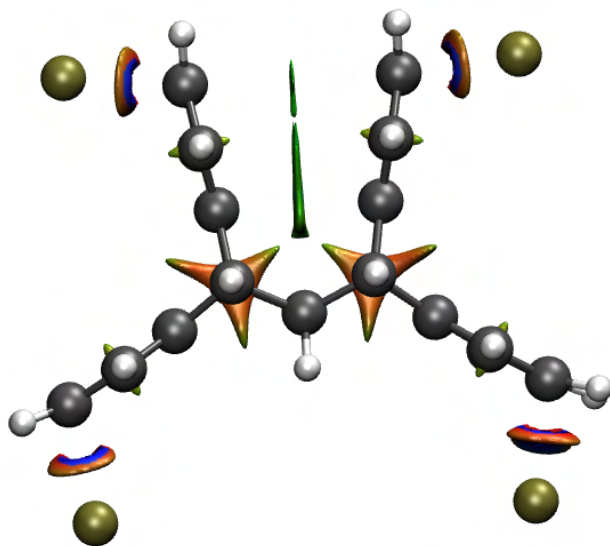


Bottom view

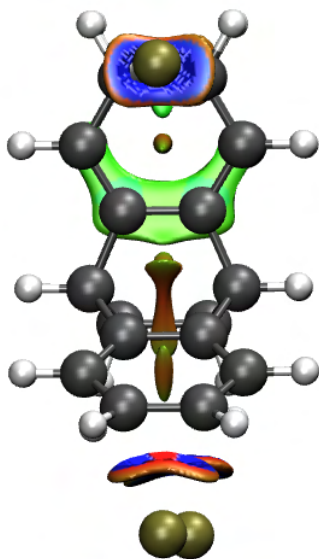
Figure S87: NCI images of system 4h.



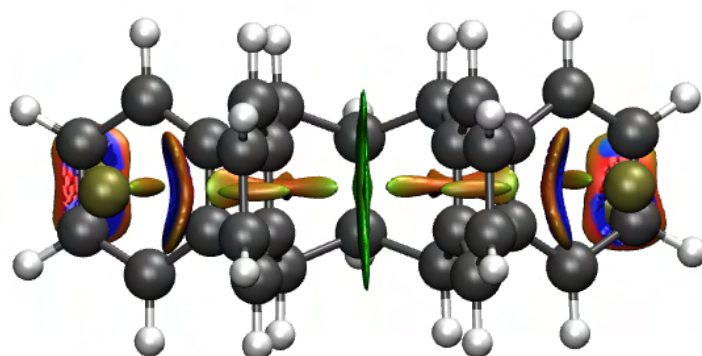
Plot of the RDG $\times \text{sign}(\lambda_2)\rho$



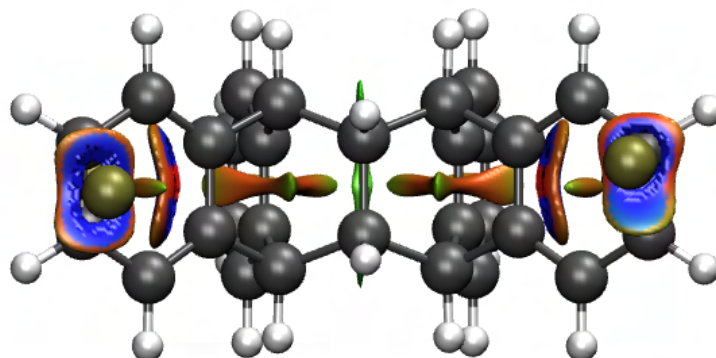
Front view



Side view



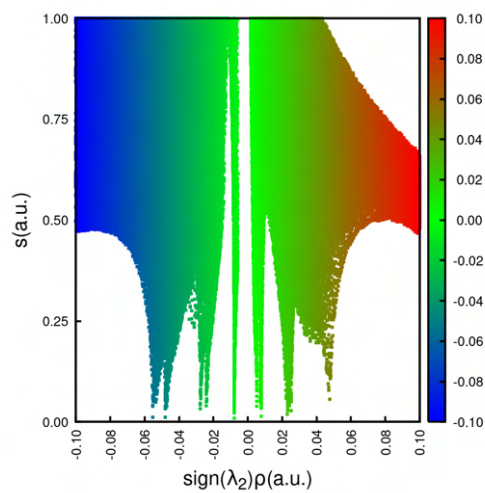
Top view



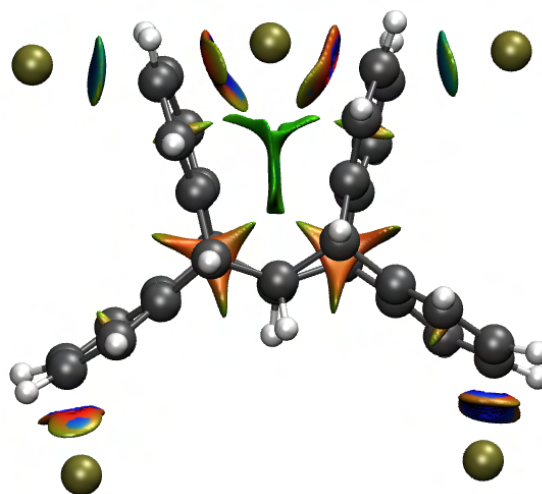
Bottom view

Figure S88: NCI images of system 4i.

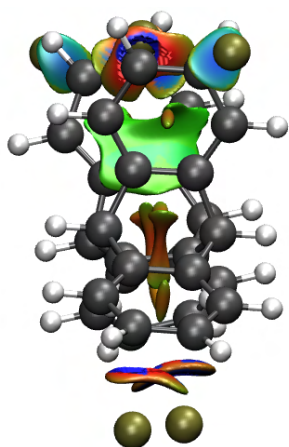
5Ag System



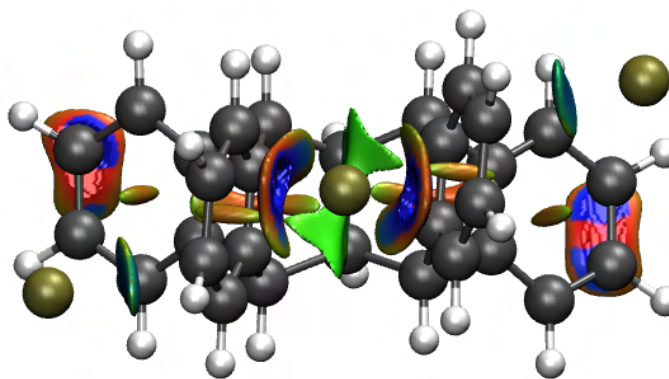
Plot of the RDG x $\text{sign}(\lambda_2)\rho$



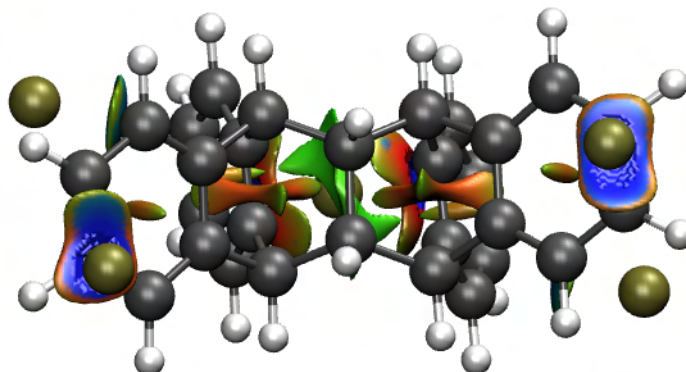
Front view



Side view



Top view



Bottom view

Figure S89: NCI images of system 5.

Cartesian Coordinates

Table S16: Cartesian coordinates of janusene-Ag⁺ **1a** and **1b**

1a	x	y	z	1b	x	y	z
C	1.126983	-0.291195	-0.879128	C	1.102737	-0.294798	-0.880431
C	0.552396	-1.639732	-1.423039	C	0.478275	-1.622361	-1.421105
C	0.718206	-1.747502	1.172691	C	0.696405	-1.761294	1.169155
C	0.664308	0.920979	1.318893	C	0.528858	0.913808	1.289266
C	0.384004	1.030733	-1.266581	C	0.423481	1.045092	-1.308113
C	1.603487	-2.770771	0.472739	C	1.574645	-2.768870	0.439190
C	2.455289	-3.681001	1.086940	C	2.446254	-3.679629	1.024273
C	3.229050	-4.533429	0.290747	C	3.195206	-4.530002	0.202669
C	3.148368	-4.468061	-1.100476	C	3.069311	-4.463301	-1.185123
C	2.291840	-3.549957	-1.718891	C	2.192710	-3.545112	-1.774525
C	1.521827	-2.705036	-0.928385	C	1.448129	-2.701871	-0.958549
C	-0.674554	-2.007874	0.652498	C	-0.701896	-2.035288	0.677304
C	-1.779992	-2.364980	1.413700	C	-1.776660	-2.447795	1.453090
C	-2.987567	-2.720139	0.773744	C	-3.010909	-2.769096	0.829531
C	-3.071507	-2.693699	-0.643979	C	-3.136879	-2.644181	-0.579867
C	-1.942315	-2.302704	-1.405697	C	-2.035467	-2.219682	-1.350284
C	-0.760476	-1.967137	-0.759764	C	-0.825446	-1.936909	-0.729086
C	-0.765673	1.119000	0.888214	C	-0.869076	1.120548	0.755889
C	-1.850997	1.333894	1.730159	C	-2.011881	1.352839	1.513574
C	-3.110338	1.636709	1.184270	C	-3.239902	1.661183	0.860620
C	-3.274789	1.701542	-0.224327	C	-3.284064	1.719835	-0.556970
C	-2.160404	1.457466	-1.074100	C	-2.122830	1.474392	-1.304906
C	-0.918930	1.174585	-0.516474	C	-0.925753	1.192227	-0.654575
C	1.279544	2.132401	-0.714816	C	1.289541	2.133851	-0.687096
C	1.435534	2.068964	0.680088	C	1.343146	2.066055	0.715290
C	2.246066	2.984801	1.340248	C	2.109041	2.974727	1.435612
C	2.903386	3.972049	0.596958	C	2.824652	3.959911	0.745281
C	2.748126	4.035127	-0.788058	C	2.771625	4.027131	-0.647021
C	1.933635	3.111356	-1.453213	C	2.001157	3.111045	-1.372537
H	-1.712997	-2.408818	2.500115	H	-1.670932	-2.563321	2.531357
H	-3.818525	-3.114842	1.357625	H	-3.807643	-3.239448	1.406523
H	-3.954144	-3.094033	-1.142947	H	-4.053664	-2.969087	-1.070590
H	-1.999172	-2.302360	-2.493621	H	-2.130332	-2.149959	-2.433253
H	-1.723956	1.300391	2.811502	H	-1.966615	1.349926	2.602476
H	-3.944007	1.894616	1.836027	H	-4.091387	2.012618	1.445254
H	-4.204814	2.085943	-0.645304	H	-4.206204	2.017128	-1.054249
H	-2.277987	1.541835	-2.154047	H	-2.155220	1.537032	-2.392015
H	2.368848	2.936415	2.422227	H	2.153174	2.921829	2.523467
H	3.538124	4.696697	1.104539	H	3.424938	4.679265	1.300159
H	3.261882	4.808991	-1.356295	H	3.330476	4.798960	-1.174069
H	2.126285	-0.202120	-1.320264	H	2.115947	-0.256802	-1.296734
H	0.249746	1.108185	-2.351716	H	0.368600	1.129766	-2.399544
H	0.771801	0.904224	2.409511	H	0.556713	0.889870	2.384935
H	0.474517	-1.623957	-2.516186	H	0.373423	-1.596623	-2.511866
H	0.774912	-1.825822	2.264520	H	0.779659	-1.849394	2.258555
C	1.263732	-0.369373	0.673657	C	1.194958	-0.363347	0.676147
H	2.327137	-0.362733	0.938943	H	2.248871	-0.310056	0.972524
H	1.814914	3.160368	-2.535639	H	1.961342	3.164237	-2.460610
H	2.230138	-3.499687	-2.806006	H	2.096697	-3.492846	-2.859102
H	3.753474	-5.137074	-1.710377	H	3.654482	-5.131581	-1.814987
H	3.896673	-5.253338	0.761574	H	3.878383	-5.249787	0.650802
H	2.521000	-3.731588	2.173794	H	2.546110	-3.732268	2.108529
Ag	-3.677748	-0.541300	0.022953	Ag	-3.669618	-0.570091	0.606237

Table S17: Cartesian coordinates of janusene-Ag⁺ **1c** and **1d**

1c	x	y	z	1d	x	y	z
C	1.172076	-0.263076	-0.858943	C	1.127860	-0.306120	-0.920230
C	0.607338	-1.600615	-1.429057	C	0.534840	-1.645980	-1.458830
C	0.670372	-1.711791	1.172644	C	0.701660	-1.764770	1.133330
C	0.732035	0.934905	1.351870	C	0.689370	0.898440	1.293570
C	0.349927	1.018991	-1.216252	C	0.350300	1.003980	-1.287240
C	1.545275	-2.766156	0.517783	C	1.575580	-2.790440	0.432230
C	2.369418	-3.688686	1.150517	C	2.419280	-3.711170	1.042500
C	3.127219	-4.586572	0.383922	C	3.178360	-4.575950	0.244650
C	3.064848	-4.564874	-1.007685	C	3.095090	-4.507190	-1.146530
C	2.257786	-3.621355	-1.666756	C	2.251940	-3.573700	-1.760690
C	1.503719	-2.712293	-0.900583	C	1.492260	-2.719330	-0.969550
C	-0.722756	-1.892613	0.599555	C	-0.707830	-1.946270	0.611660
C	-1.903721	-2.092161	1.302656	C	-1.842900	-2.187920	1.377410
C	-3.098428	-2.338242	0.611478	C	-3.064080	-2.411790	0.736550
C	-3.120274	-2.400794	-0.779125	C	-3.145290	-2.388380	-0.657520
C	-1.943410	-2.172331	-1.513673	C	-2.007190	-2.132760	-1.427120
C	-0.747416	-1.895831	-0.816748	C	-0.793270	-1.907650	-0.789970
C	-0.723575	1.057245	0.978622	C	-0.757750	1.083620	0.886490
C	-1.792978	1.185019	1.855381	C	-1.832990	1.239600	1.752260
C	-3.089468	1.301386	1.343409	C	-3.112750	1.409110	1.217800
C	-3.305581	1.280514	-0.035088	C	-3.303050	1.425160	-0.164910
C	-2.227349	1.160633	-0.918398	C	-2.217180	1.280860	-1.032930
C	-0.934100	1.059166	-0.412434	C	-0.943640	1.111690	-0.503590
C	1.222714	2.153916	-0.705892	C	1.221280	2.127660	-0.763360
C	1.449716	2.092639	0.679426	C	1.433660	2.042740	0.638590
C	2.254480	3.039622	1.301840	C	2.232590	3.021890	1.291970
C	2.831626	4.057415	0.533407	C	2.767530	4.095420	0.533750
C	2.605110	4.118325	-0.841691	C	2.515020	4.176430	-0.830830
C	1.800169	3.160732	-1.470078	C	1.752300	3.191360	-1.481140
H	-1.902192	-2.057620	2.391270	H	-1.778800	-2.214020	2.465240
H	-4.019069	-2.489938	1.172001	H	-3.955530	-2.615460	1.327810
H	-4.053176	-2.596192	-1.304396	H	-4.100140	-2.573630	-1.147210
H	-1.968466	-2.110551	-2.602389	H	-2.069430	-2.112950	-2.515240
H	-1.621037	1.203395	2.931889	H	-1.682740	1.217840	2.831510
H	-3.932921	1.416937	2.022578	H	-3.965820	1.526800	1.883900
H	-4.316990	1.376870	-0.427148	H	-4.304530	1.555460	-0.571710
H	-2.396316	1.170139	-1.995622	H	-2.368230	1.295680	-2.111920
H	2.427801	2.996086	2.377309	H	2.286290	3.040520	2.382520
H	3.456554	4.808837	1.013685	H	3.340320	4.871530	1.037980
H	3.053201	4.917594	-1.430099	H	2.907020	5.016380	-1.401830
H	2.166379	-0.136422	-1.303573	H	2.124210	-0.211350	-1.373970
H	0.169986	1.087233	-2.296072	H	0.191530	1.075720	-2.369020
H	0.889266	0.921981	2.436848	H	0.819330	0.882540	2.382370
H	0.573117	-1.580270	-2.525017	H	0.458310	-1.623970	-2.552250
H	0.677911	-1.787636	2.265570	H	0.757560	-1.840590	2.225890
C	1.307646	-0.358757	0.692434	C	1.265000	-0.398280	0.636050
H	2.369542	-0.408186	0.961332	H	2.353710	-0.425380	0.909520
H	1.623130	3.209876	-2.544725	H	1.564530	3.270530	-2.551790
H	2.264155	-3.548445	-2.755072	H	2.183260	-3.525640	-2.847750
H	3.659882	-5.264194	-1.592351	H	3.683090	-5.189340	-1.758900
H	3.767851	-5.311401	0.883437	H	3.829220	-5.312800	0.713130
H	2.421883	-3.719262	2.238594	H	2.476760	-3.771890	2.129790
Ag	-0.381928	-4.304679	-1.166808	Ag	3.749980	1.301380	0.783730

Table S18: Cartesian coordinates of [janusene-Ag₂]²⁺ **2a** and **2b**

2a	x	y	z	2b	x	y	z
C	1.138469	-0.261030	-0.838800	C	1.090590	-0.334490	-0.846870
C	0.531695	-1.592482	-1.400383	C	0.417940	-1.664530	-1.350270
C	0.737689	-1.752054	1.195858	C	0.663290	-1.743770	1.246090
C	0.663105	0.938802	1.365341	C	0.589780	0.927020	1.310510
C	0.461720	1.096956	-1.231562	C	0.441940	1.017090	-1.289260
C	1.617254	-2.760955	0.458375	C	1.509620	-2.783330	0.535500
C	2.482443	-3.677068	1.045233	C	2.394300	-3.665250	1.136770
C	3.243858	-4.510190	0.217230	C	3.187040	-4.514140	0.326940
C	3.133163	-4.425102	-1.171587	C	3.046430	-4.474070	-1.096530
C	2.258970	-3.504955	-1.761720	C	2.119940	-3.586920	-1.686280
C	1.506047	-2.675281	-0.938874	C	1.373800	-2.743160	-0.876420
C	-0.649327	-2.029834	0.686613	C	-0.752000	-1.975880	0.774250
C	-1.737143	-2.486862	1.457922	C	-1.841570	-2.275510	1.586010
C	-2.978516	-2.788786	0.834434	C	-3.083890	-2.563730	1.000820
C	-3.092156	-2.698470	-0.588586	C	-3.229360	-2.530370	-0.409560
C	-1.961412	-2.310077	-1.357130	C	-2.111540	-2.205230	-1.226200
C	-0.760915	-1.942512	-0.717074	C	-0.885270	-1.932710	-0.628770
C	-0.737948	1.202578	0.887876	C	-0.812740	1.162510	0.799460
C	-1.848983	1.495770	1.704728	C	-1.930360	1.433140	1.580550
C	-3.106725	1.802200	1.117283	C	-3.137410	1.819940	0.964450
C	-3.217037	1.887983	-0.306095	C	-3.213670	1.915150	-0.451140
C	-2.066491	1.665899	-1.111600	C	-2.072410	1.602560	-1.237460
C	-0.846658	1.287782	-0.516298	C	-0.888820	1.232360	-0.610680
C	1.377954	2.162907	-0.632237	C	1.356790	2.086620	-0.703130
C	1.485891	2.078108	0.765340	C	1.427660	2.045460	0.699460
C	2.301893	2.957552	1.467396	C	2.217970	2.953840	1.393290
C	3.017751	3.926508	0.754786	C	2.938910	3.913210	0.672840
C	2.910706	4.010619	-0.634363	C	2.869630	3.953410	-0.720130
C	2.085305	3.127601	-1.340195	C	2.076770	3.035850	-1.418910
H	-1.593333	-2.717270	2.515916	H	-1.731920	-2.308270	2.669350
H	-3.774966	-3.274694	1.399369	H	-3.924790	-2.869540	1.622160
H	-3.972706	-3.117407	-1.077182	H	-4.146060	-2.903080	-0.870550
H	-1.989679	-2.405381	-2.444957	H	-2.215790	-2.210810	-2.311020
H	-1.717131	1.598501	2.784274	H	-1.869580	1.396760	2.667670
H	-3.928841	2.166020	1.734832	H	-3.984100	2.137190	1.572280
H	-4.119867	2.317611	-0.742124	H	-4.093460	2.358360	-0.919110
H	-2.101611	1.896419	-2.178694	H	-2.120160	1.707050	-2.321020
H	2.390173	2.893996	2.551562	H	2.270550	2.928310	2.481620
H	3.661259	4.622098	1.290686	H	3.553570	4.637140	1.205290
H	3.471386	4.771274	-1.174980	H	3.430550	4.708490	-1.268430
H	2.143100	-0.207709	-1.272997	H	2.095500	-0.329450	-1.285280
H	0.364413	1.194976	-2.318431	H	0.371540	1.083210	-2.380900
H	0.734810	0.904099	2.458065	H	0.639060	0.921450	2.405270
H	0.434083	-1.558062	-2.491084	H	0.301670	-1.662720	-2.439490
H	0.813100	-1.851442	2.284337	H	0.757570	-1.805830	2.335600
C	1.259893	-0.355358	0.711870	C	1.211360	-0.373730	0.708360
H	2.320070	-0.343137	0.988461	H	2.270940	-0.348220	0.988440
H	2.006191	3.195242	-2.424819	H	2.020150	3.073050	-2.506710
H	2.177290	-3.440197	-2.846327	H	2.034860	-3.539740	-2.771290
H	3.729536	-5.081550	-1.802970	H	3.762360	-5.006880	-1.724820
H	3.926008	-5.232621	0.662116	H	4.024510	-5.056300	0.771660
H	2.573535	-3.745334	2.128873	H	2.524500	-3.677950	2.218290
Ag	-3.078832	-0.539281	1.674804	Ag	1.885070	-6.365640	-0.220030
Ag	-3.310577	-0.362267	-1.106605	Ag	-3.752190	-0.305930	-0.123830

Table S19: Cartesian coordinates of [janusene-Ag₂]²⁺ **2c** and **2d**

2c	x	y	z	2d	x	y	z
C	1.097291	-0.252611	-0.901569	C	0.998670	-0.388830	-0.896770
C	0.528197	-1.604339	-1.458304	C	0.344690	-1.711030	-1.447320
C	0.729497	-1.743781	1.138469	C	0.607300	-1.877910	1.151520
C	0.644166	0.917981	1.320863	C	0.601400	0.793150	1.330270
C	0.328617	1.062284	-1.260480	C	0.304910	0.965050	-1.254420
C	1.620886	-2.738131	0.418801	C	1.488630	-2.869850	0.404060
C	2.482672	-3.645185	1.016230	C	2.559740	-3.603540	0.952080
C	3.234840	-4.524523	0.203739	C	3.481020	-4.216180	0.098980
C	3.133238	-4.440280	-1.221227	C	3.347610	-4.116980	-1.291080
C	2.280210	-3.478142	-1.810067	C	2.287330	-3.407110	-1.859900
C	1.519438	-2.654562	-0.994407	C	1.349850	-2.772850	-1.023090
C	-0.670065	-2.011288	0.628997	C	-0.811030	-2.085850	0.678450
C	-1.767104	-2.360674	1.405711	C	-1.909230	-2.380920	1.481300
C	-2.984918	-2.694244	0.777555	C	-3.163820	-2.629320	0.882770
C	-3.085887	-2.664942	-0.637559	C	-3.305180	-2.557640	-0.526580
C	-1.964090	-2.281654	-1.414249	C	-2.187280	-2.230100	-1.332630
C	-0.773785	-1.958068	-0.777607	C	-0.951820	-2.004550	-0.733000
C	-0.795584	1.104527	0.910147	C	-0.825900	1.049730	0.910920
C	-1.867443	1.312154	1.771861	C	-1.888970	1.319550	1.765640
C	-3.129900	1.636326	1.248942	C	-3.128330	1.729380	1.232060
C	-3.312732	1.732363	-0.155489	C	-3.292570	1.838290	-0.175500
C	-2.212579	1.490501	-1.027049	C	-2.208100	1.524860	-1.036290
C	-0.967069	1.181963	-0.489675	C	-0.986290	1.145360	-0.491330
C	1.222105	2.164914	-0.703814	C	1.247850	2.021050	-0.686200
C	1.396090	2.083588	0.688270	C	1.408130	1.927860	0.706140
C	2.195719	3.004777	1.354340	C	2.244800	2.808470	1.381330
C	2.824150	4.015707	0.617356	C	2.921880	3.792420	0.651470
C	2.651624	4.096133	-0.764842	C	2.763520	3.884200	-0.731690
C	1.847677	3.167045	-1.435959	C	1.923190	2.995100	-1.411850
H	-1.689631	-2.407935	2.491032	H	-1.805600	-2.439800	2.564200
H	-3.815919	-3.073756	1.371770	H	-3.999220	-2.969580	1.495190
H	-3.977031	-3.059457	-1.127112	H	-4.239460	-2.868490	-0.996280
H	-2.037277	-2.273966	-2.501080	H	-2.298220	-2.177710	-2.415270
H	-1.725163	1.267442	2.851034	H	-1.758560	1.270330	2.846160
H	-3.953393	1.886865	1.916533	H	-3.928430	2.056950	1.895350
H	-4.240879	2.143852	-0.555408	H	-4.198960	2.287850	-0.582650
H	-2.343232	1.608266	-2.102489	H	-2.325780	1.643290	-2.113070
H	2.326560	2.948959	2.435012	H	2.368120	2.742180	2.462150
H	3.444439	4.749617	1.129160	H	3.573800	4.494000	1.169240
H	3.137624	4.892866	-1.325680	H	3.292360	4.657160	-1.286890
H	2.087154	-0.137478	-1.359493	H	1.989490	-0.339500	-1.363580
H	0.181125	1.152907	-2.342656	H	0.170070	1.068100	-2.337050
H	0.766704	0.885595	2.409353	H	0.716630	0.751830	2.419210
H	0.435800	-1.575710	-2.549271	H	0.223540	-1.670490	-2.535090
H	0.801264	-1.835104	2.227653	H	0.704670	-1.977590	2.237930
C	1.256832	-0.350309	0.647908	C	1.168410	-0.494040	0.652810
H	2.323199	-0.327012	0.904474	H	2.237140	-0.507260	0.897520
H	1.709449	3.236802	-2.514885	H	1.798960	3.071840	-2.491880
H	2.192414	-3.428227	-2.894629	H	2.206420	-3.305150	-2.941730
H	3.573565	-5.224040	-1.840834	H	4.083460	-4.591320	-1.938410
H	3.753526	-5.370687	0.658590	H	4.319350	-4.766810	0.522630
H	2.550834	-3.722315	2.100522	H	2.689300	-3.650380	2.032980
Ag	5.129956	-3.372906	-0.589733	Ag	-3.830800	-0.383650	0.219310
Ag	-3.730221	-0.515047	-0.011298	Ag	0.122770	-4.721490	-0.266910

Table S20: Cartesian coordinates of [janusene-Ag₂]²⁺ **2e** and **2f**

2e	x	y	z	2f	x	y	z
C	1.081630	-0.259740	-0.890980	C	1.188590	-0.246650	-0.873060
C	0.520390	-1.606950	-1.460130	C	0.702830	-1.623210	-1.461590
C	0.634690	-1.738360	1.142060	C	0.662000	-1.708640	1.145780
C	0.565250	0.935080	1.304630	C	0.736890	0.935520	1.347750
C	0.326660	1.049960	-1.286530	C	0.310190	1.006060	-1.216810
C	1.546920	-2.738700	0.456290	C	1.588410	-2.735940	0.530880
C	2.387230	-3.645320	1.083900	C	2.404400	-3.616820	1.225730
C	3.158200	-4.533710	0.299290	C	3.272690	-4.469680	0.508650
C	3.097570	-4.458910	-1.128370	C	3.327050	-4.394070	-0.919140
C	2.267550	-3.495400	-1.747750	C	2.506840	-3.469180	-1.606140
C	1.487940	-2.662900	-0.959730	C	1.637150	-2.663450	-0.886020
C	-0.746410	-2.012350	0.584030	C	-0.697360	-1.903690	0.510220
C	-1.863300	-2.397730	1.317190	C	-1.899350	-2.080240	1.191320
C	-3.065410	-2.727470	0.634670	C	-3.085340	-2.241140	0.469950
C	-3.115990	-2.649260	-0.780450	C	-3.057010	-2.293060	-0.957160
C	-1.980980	-2.248220	-1.503000	C	-1.816420	-2.132250	-1.640000
C	-0.806730	-1.945310	-0.822650	C	-0.664300	-1.919710	-0.903210
C	-0.859890	1.131220	0.848790	C	-0.726130	1.017270	1.000310
C	-1.950670	1.380570	1.670790	C	-1.781620	1.108540	1.902840
C	-3.208830	1.682350	1.090390	C	-3.089860	1.172160	1.418950
C	-3.344320	1.699350	-0.323380	C	-3.329430	1.142320	0.041700
C	-2.225450	1.432940	-1.142220	C	-2.262860	1.071300	-0.865780
C	-0.992410	1.171560	-0.558430	C	-0.959810	1.014710	-0.386200
C	1.204690	2.157420	-0.715340	C	1.164040	2.162320	-0.722150
C	1.343120	2.087790	0.681240	C	1.420230	2.104910	0.659020
C	2.129100	3.012290	1.359250	C	2.212740	3.070150	1.269710
C	2.777830	4.015620	0.629860	C	2.747420	4.103070	0.491350
C	2.640060	4.084700	-0.756930	C	2.492420	4.160290	-0.879770
C	1.851970	3.151050	-1.440230	C	1.701060	3.184050	-1.496330
H	-1.815630	-2.492330	2.401520	H	-1.929000	-2.038750	2.278450
H	-3.890100	-3.186120	1.182960	H	-4.042700	-2.264180	0.988380
H	-4.016030	-2.965840	-1.306040	H	-3.989880	-2.174210	-1.514890
H	-2.019330	-2.202880	-2.590500	H	-1.800250	-2.097930	-2.728680
H	-1.840750	1.393400	2.754540	H	-1.586860	1.142670	2.974870
H	-4.031090	2.026120	1.718380	H	-3.924060	1.264540	2.112610
H	-4.282430	2.024450	-0.772390	H	-4.350250	1.216450	-0.331010
H	-2.328940	1.481990	-2.225440	H	-2.456080	1.088340	-1.938740
H	2.230750	2.966860	2.443440	H	2.402910	3.034550	2.342420
H	3.385270	4.753800	1.150770	H	3.357770	4.872610	0.961030
H	3.139880	4.876960	-1.311710	H	2.904630	4.974640	-1.473330
H	2.087250	-0.151980	-1.314940	H	2.175980	-0.060990	-1.311480
H	0.211580	1.128730	-2.373380	H	0.108190	1.067380	-2.292610
H	0.656180	0.914530	2.396410	H	0.916070	0.925350	2.428890
H	0.464360	-1.581800	-2.553580	H	0.716040	-1.608270	-2.556420
H	0.669610	-1.826090	2.233310	H	0.623780	-1.775040	2.238120
C	1.185010	-0.347850	0.663700	C	1.315490	-0.350430	0.676220
H	2.241930	-0.331870	0.956810	H	2.374280	-0.409670	0.959200
H	1.739670	3.212530	-2.522510	H	1.498690	3.234900	-2.566110
H	2.211040	-3.452220	-2.834650	H	2.541220	-3.422470	-2.693990
H	3.549180	-5.250150	-1.729980	H	3.867520	-5.159370	-1.479720
H	3.659730	-5.378910	0.774550	H	3.779430	-5.286800	1.025330
H	2.423770	-3.716270	2.170200	H	2.361830	-3.679850	2.312360
Ag	-3.742990	-0.521680	0.546800	Ag	-3.166940	-4.539340	-0.872030
Ag	5.075680	-3.389420	-0.445750	Ag	5.189660	-3.216970	-0.094850

Table S21: Cartesian coordinates of [janusene-Ag₂]²⁺ **2g** and **2h**

2g	x	y	z	2h	x	y	z
C	1.246280	-0.217980	-0.844060	C	1.247150	-0.209120	-0.892950
C	0.623130	-1.543270	-1.370690	C	0.603130	-1.522360	-1.423470
C	0.795370	-1.625020	1.223130	C	0.778470	-1.617750	1.168540
C	0.761450	0.998730	1.347800	C	0.795920	1.011010	1.306130
C	0.459730	1.078010	-1.238010	C	0.464520	1.092540	-1.275370
C	1.602180	-2.724000	0.538580	C	1.564640	-2.729090	0.477650
C	2.295280	-3.760390	1.156280	C	2.216170	-3.794480	1.091640
C	2.820290	-4.807670	0.385100	C	2.704230	-4.854550	0.314530
C	2.656440	-4.821230	-0.998740	C	2.543090	-4.851510	-1.070610
C	1.990700	-3.752160	-1.647720	C	1.919470	-3.756360	-1.711960
C	1.489380	-2.689870	-0.864830	C	1.455180	-2.684850	-0.926360
C	-0.622250	-1.837350	0.708110	C	-0.641130	-1.825710	0.654580
C	-1.735220	-2.195080	1.463790	C	-1.743860	-2.216670	1.408880
C	-2.911070	-2.613100	0.824540	C	-2.907950	-2.667120	0.771990
C	-2.975650	-2.681930	-0.566100	C	-2.976240	-2.728590	-0.618670
C	-1.868140	-2.284950	-1.347380	C	-1.879370	-2.291650	-1.401880
C	-0.705760	-1.832300	-0.697880	C	-0.726520	-1.807230	-0.748290
C	-0.689330	1.132120	0.922270	C	-0.655990	1.124100	0.894500
C	-1.803900	1.262590	1.772070	C	-1.748680	1.177600	1.750990
C	-3.087120	1.351130	1.203080	C	-3.035960	1.228290	1.207330
C	-3.246120	1.296230	-0.179880	C	-3.218890	1.229350	-0.176790
C	-2.132460	1.188830	-1.026400	C	-2.117010	1.192610	-1.037970
C	-0.854950	1.125680	-0.483780	C	-0.836140	1.142010	-0.497060
C	1.309240	2.221990	-0.707340	C	1.307420	2.234430	-0.749840
C	1.449890	2.195880	0.702170	C	1.496920	2.182910	0.656560
C	2.169010	3.211860	1.364760	C	2.205830	3.177890	1.312540
C	2.761410	4.234220	0.599790	C	2.696210	4.281510	0.576740
C	2.654350	4.225600	-0.789120	C	2.506210	4.332530	-0.842140
C	1.928150	3.221360	-1.447790	C	1.828940	3.278870	-1.497940
H	-1.680860	-2.196590	2.552470	H	-1.688990	-2.216090	2.497250
H	-3.771610	-2.911980	1.420140	H	-3.759040	-2.989800	1.368660
H	-3.888140	-3.016590	-1.056580	H	-3.883510	-3.074810	-1.110910
H	-1.954740	-2.225840	-2.434860	H	-1.985510	-2.190800	-2.484670
H	-1.679480	1.216540	2.855210	H	-1.606250	1.174290	2.831530
H	-3.957190	1.445270	1.850140	H	-3.900600	1.274290	1.867370
H	-4.244270	1.355530	-0.610110	H	-4.225280	1.276090	-0.589680
H	-2.270770	1.173010	-2.107340	H	-2.262480	1.210330	-2.118090
H	2.328500	3.163090	2.443150	H	2.331090	3.153650	2.394340
H	3.327230	5.018290	1.099630	H	3.048530	5.169810	1.105220
H	3.132620	5.011490	-1.371000	H	2.721780	5.256410	-1.382370
H	2.239980	-0.134150	-1.298940	H	2.239500	-0.143240	-1.356610
H	0.317490	1.141210	-2.322490	H	0.308940	1.159980	-2.358140
H	0.878840	0.990430	2.438070	H	0.925560	1.002880	2.394090
H	0.544700	-1.534690	-2.464770	H	0.519360	-1.507950	-2.517130
H	0.852720	-1.695300	2.315010	H	0.834830	-1.691360	2.260170
C	1.387960	-0.278410	0.708370	C	1.397760	-0.280700	0.658360
H	2.450440	-0.274070	0.978650	H	2.462330	-0.313020	0.921610
H	1.839900	3.237300	-2.533810	H	1.665850	3.331730	-2.573680
H	1.996860	-3.684740	-2.738430	H	1.899150	-3.697670	-2.802730
H	3.073740	-5.631890	-1.593760	H	2.926850	-5.676480	-1.668730
H	3.349920	-5.623800	0.873040	H	3.198150	-5.695490	0.798140
H	2.399910	-3.782200	2.240900	H	2.310530	-3.828660	2.176960
Ag	-0.359090	-4.455310	-1.452760	Ag	-0.591000	-4.389180	-1.502890
Ag	-0.503350	3.608880	1.321440	Ag	4.727600	3.688090	-0.408010

Table S22: Cartesian coordinates of [janusene-Ag₂]²⁺ **2i** and [janusene-Ag₃]³⁺ **3a**

2i	x	y	z	3a	x	y	z
C	1.221540	-0.253750	-0.894360	C	1.123645	-0.363078	-0.878091
C	0.625370	-1.576630	-1.473460	C	0.468411	-1.685865	-1.423400
C	0.753000	-1.735490	1.122180	C	0.748986	-1.858389	1.167489
C	0.769000	0.891740	1.341900	C	0.600680	0.817873	1.319813
C	0.405640	1.039440	-1.232030	C	0.458516	0.984025	-1.288983
C	1.567090	-2.806320	0.425140	C	1.613725	-2.851124	0.405489
C	2.232610	-3.856940	1.036420	C	2.538825	-3.720289	0.963641
C	2.800600	-4.877970	0.238330	C	3.361160	-4.492851	0.111256
C	2.747530	-4.776820	-1.190520	C	3.199371	-4.406916	-1.304540
C	2.124440	-3.660740	-1.792890	C	2.216496	-3.548810	-1.851609
C	1.510000	-2.709060	-0.993160	C	1.452658	-2.766013	-0.999596
C	-0.651200	-1.927620	0.571880	C	-0.666682	-2.093764	0.706271
C	-1.790380	-2.219110	1.312890	C	-1.746309	-2.419460	1.517581
C	-2.996420	-2.447480	0.643900	C	-3.018473	-2.633589	0.928858
C	-3.055780	-2.395920	-0.750220	C	-3.177007	-2.493429	-0.479795
C	-1.910610	-2.104880	-1.496040	C	-2.069049	-2.153807	-1.286606
C	-0.715730	-1.865010	-0.828260	C	-0.823386	-1.975812	-0.697023
C	-0.688120	1.048060	0.954610	C	-0.794243	1.104410	0.810771
C	-1.758470	1.179270	1.831100	C	-1.899489	1.426583	1.593857
C	-3.043110	1.350960	1.309120	C	-3.104456	1.861824	0.960020
C	-3.244500	1.393640	-0.072030	C	-3.149587	1.989620	-0.465071
C	-2.164350	1.276560	-0.951640	C	-2.034586	1.651046	-1.236968
C	-0.886400	1.103310	-0.433260	C	-0.865288	1.215377	-0.609466
C	1.230440	2.186900	-0.686070	C	1.320418	2.076471	-0.664580
C	1.442730	2.096500	0.717840	C	1.398601	1.985588	0.751488
C	2.103890	3.106590	1.400230	C	2.134108	2.912527	1.478938
C	2.503530	4.268860	0.703730	C	2.801139	3.928920	0.788136
C	2.285170	4.362950	-0.709790	C	2.718069	4.022810	-0.614025
C	1.674510	3.288770	-1.399520	C	1.967009	3.102112	-1.347087
H	-1.746560	-2.269360	2.400450	H	-1.622583	-2.541087	2.593304
H	-3.894100	-2.677750	1.215070	H	-3.833247	-3.039686	1.529488
H	-3.998630	-2.588350	-1.259220	H	-4.126168	-2.756982	-0.945639
H	-1.955520	-2.065650	-2.584150	H	-2.193901	-2.070006	-2.365616
H	-1.600190	1.145970	2.908780	H	-1.840383	1.408519	2.681864
H	-3.891400	1.455810	1.983270	H	-3.898512	2.301281	1.564624
H	-4.249340	1.530180	-0.467920	H	-4.036700	2.411297	-0.935800
H	-2.324860	1.319260	-2.028470	H	-2.067948	1.767416	-2.319408
H	2.243180	3.051920	2.479100	H	2.196373	2.852390	2.564672
H	2.800880	5.158290	1.262750	H	3.386805	4.662680	1.339918
H	2.403350	5.326880	-1.209730	H	3.246014	4.823537	-1.129521
H	2.213740	-0.127490	-1.348960	H	2.127398	-0.329434	-1.318515
H	0.234240	1.130850	-2.310450	H	0.392032	1.082810	-2.377522
H	0.912400	0.856240	2.427610	H	0.645878	0.779417	2.413529
H	0.564240	-1.537100	-2.566750	H	0.339134	-1.645610	-2.510102
H	0.790360	-1.833240	2.212960	H	0.861407	-1.957812	2.252231
C	1.369810	-0.375320	0.652490	C	1.246629	-0.449243	0.673578
H	2.435630	-0.404950	0.917500	H	2.305259	-0.400470	0.954814
H	1.484830	3.374990	-2.468630	H	1.901947	3.181951	-2.431425
H	2.058560	-3.603150	-2.878600	H	2.115597	-3.467969	-2.933367
H	3.014080	-5.641360	-1.801720	H	3.945287	-4.856355	-1.964654
H	3.094700	-5.822680	0.700760	H	4.228024	-5.011419	0.527934
H	2.249670	-3.951020	2.121430	H	2.683637	-3.771494	2.042235
Ag	4.924800	-4.250000	-0.475700	Ag	-6.213507	0.004670	0.529840
Ag	4.551970	3.938390	-0.400710	Ag	2.270208	-6.474459	-0.618648
				Ag	-3.513183	-0.369390	0.705878

Table S23: Cartesian coordinates of [janusene-Ag₃]³⁺ **3b** and **3c**

3b	x	y	z	3c	x	y	z
C	1.190780	-0.293910	-0.868030	C	1.094900	-0.542822	-0.909805
C	0.590910	-1.650030	-1.384620	C	0.465522	-1.836344	-1.546245
C	0.869420	-1.751760	1.209850	C	0.499239	-2.065135	1.056347
C	0.624500	0.903940	1.311910	C	0.764316	0.593454	1.352814
C	0.473330	1.023900	-1.298340	C	0.397990	0.820594	-1.219556
C	1.745920	-2.755980	0.474280	C	1.350312	-3.113960	0.352666
C	2.595360	-3.678900	1.064190	C	2.127047	-4.080982	0.975428
C	3.273190	-4.612260	0.245690	C	2.890844	-4.964005	0.183210
C	3.116720	-4.562600	-1.172200	C	2.895219	-4.826043	-1.236639
C	2.284870	-3.578440	-1.756760	C	2.129992	-3.802171	-1.850440
C	1.590640	-2.705940	-0.933410	C	1.349548	-2.974516	-1.057437
C	-0.537800	-2.047410	0.752980	C	-0.878565	-2.187672	0.453830
C	-1.604610	-2.393670	1.578250	C	-2.062943	-2.478273	1.156445
C	-2.845990	-2.706620	1.006880	C	-3.277812	-2.657546	0.454608
C	-3.016960	-2.646590	-0.406400	C	-3.292553	-2.550056	-0.977280
C	-1.916060	-2.286330	-1.238800	C	-2.086106	-2.246909	-1.667923
C	-0.691830	-1.985930	-0.652940	C	-0.893540	-2.087809	-0.951999
C	-0.782430	1.120540	0.803950	C	-0.657197	0.929466	0.987314
C	-1.901860	1.376620	1.591590	C	-1.661618	1.282458	1.882048
C	-3.113460	1.749580	0.976810	C	-2.918330	1.719794	1.385913
C	-3.196240	1.846700	-0.448460	C	-3.145732	1.744251	-0.020316
C	-2.052300	1.565520	-1.241780	C	-2.112453	1.375591	-0.910969
C	-0.862760	1.202920	-0.618650	C	-0.867865	1.005942	-0.410123
C	1.295600	2.155640	-0.693080	C	1.383537	1.843139	-0.659022
C	1.364330	2.099560	0.724440	C	1.604096	1.699195	0.720937
C	2.040170	3.081730	1.441140	C	2.495494	2.535027	1.386195
C	2.670980	4.109200	0.736760	C	3.167453	3.523925	0.657113
C	2.605200	4.163570	-0.667680	C	2.946253	3.668253	-0.712899
C	1.907620	3.190520	-1.389420	C	2.051087	2.824053	-1.383582
H	-1.474690	-2.454530	2.658100	H	-2.038475	-2.627314	2.236821
H	-3.663820	-3.061080	1.633230	H	-4.170283	-3.008878	0.980748
H	-3.916960	-3.064900	-0.860380	H	-4.252653	-2.456033	-1.497635
H	-2.035270	-2.292490	-2.322080	H	-2.110402	-2.071330	-2.744459
H	-1.839000	1.335170	2.678220	H	-1.475124	1.290273	2.955786
H	-3.960320	2.063950	1.585690	H	-3.649562	2.165045	2.062065
H	-4.083500	2.281090	-0.908750	H	-4.074330	2.163546	-0.407891
H	-2.106620	1.676950	-2.324150	H	-2.278881	1.459169	-1.984671
H	2.088730	3.047890	2.528890	H	2.663281	2.432949	2.458156
H	3.216590	4.880720	1.278060	H	3.860924	4.190645	1.166870
H	3.100220	4.977020	-1.196140	H	3.467096	4.447833	-1.266387
H	2.190810	-0.227110	-1.313170	H	2.097472	-0.467009	-1.346180
H	0.401150	1.101830	-2.388480	H	0.230492	0.952003	-2.294476
H	0.672700	0.883540	2.405990	H	0.916665	0.522598	2.435308
H	0.462120	-1.640300	-2.472210	H	0.440818	-1.764911	-2.638625
H	0.980790	-1.823220	2.296910	H	0.495075	-2.189416	2.144084
C	1.320560	-0.343340	0.684590	C	1.212208	-0.716077	0.633040
H	2.376810	-0.248360	0.964820	H	2.264407	-0.857301	0.907113
H	1.853890	3.243790	-2.476200	H	1.877444	2.945900	-2.452489
H	2.155330	-3.556590	-2.838180	H	2.131835	-3.706095	-2.935786
H	3.485050	-5.386990	-1.787780	H	3.328744	-5.615288	-1.857468
H	3.763430	-5.472660	0.707870	H	3.360946	-5.834324	0.645602
H	2.702970	-3.734590	2.146810	H	2.126475	-4.190121	2.059302
Ag	-6.225760	-0.411040	0.199470	Ag	-3.159085	-4.739506	-1.659671
Ag	5.270630	-3.711720	-0.671480	Ag	-3.656044	-0.415816	0.980188
Ag	-3.504800	-0.422860	-0.080400	Ag	4.968741	-3.960137	-0.618914

Table S24: Cartesian coordinates of [janusene-Ag₃]³⁺ **3d** and **3e**

3d	x	y	z	3e	x	y	z
C	1.034400	-0.289920	-0.883370	C	1.116544	-0.367697	-0.894420
C	0.435420	-1.636330	-1.417500	C	0.407262	-1.667355	-1.411755
C	0.667830	-1.755310	1.178250	C	0.676856	-1.796987	1.179344
C	0.549940	0.919340	1.316430	C	0.664599	0.873680	1.288712
C	0.278420	1.026340	-1.276210	C	0.468889	0.993321	-1.309276
C	1.554030	-2.759820	0.454710	C	1.480664	-2.859027	0.443478
C	2.439850	-3.645880	1.049060	C	2.309336	-3.806655	1.024229
C	3.252910	-4.462520	0.231350	C	3.035243	-4.692670	0.193883
C	3.129640	-4.395370	-1.189620	C	2.881999	-4.625798	-1.224040
C	2.191000	-3.511260	-1.775260	C	2.004503	-3.674219	-1.794582
C	1.428180	-2.694010	-0.955820	C	1.328306	-2.793123	-0.964971
C	-0.735460	-2.042770	0.686520	C	-0.750728	-1.996996	0.716981
C	-1.807390	-2.453580	1.471950	C	-1.829183	-2.332794	1.525210
C	-3.033100	-2.809980	0.846620	C	-3.088473	-2.597498	0.929373
C	-3.155050	-2.721140	-0.564140	C	-3.237890	-2.490502	-0.477627
C	-2.064070	-2.291860	-1.339940	C	-2.133431	-2.137027	-1.280629
C	-0.862080	-1.973190	-0.716520	C	-0.899087	-1.910816	-0.684204
C	-0.884310	1.107630	0.871640	C	-0.748021	1.142108	0.803529
C	-1.973870	1.327900	1.706090	C	-1.842317	1.443426	1.607071
C	-3.243980	1.605000	1.134730	C	-3.068643	1.825175	0.998562
C	-3.390210	1.626120	-0.276780	C	-3.168137	1.874099	-0.415948
C	-2.276590	1.389760	-1.105390	C	-2.053884	1.552890	-1.211851
C	-1.032950	1.151780	-0.531010	C	-0.853634	1.206291	-0.601492
C	1.164470	2.134350	-0.723480	C	1.379023	2.069356	-0.731038
C	1.316180	2.073170	0.684810	C	1.484036	2.006213	0.682425
C	2.122900	2.981400	1.353830	C	2.207689	2.957379	1.383905
C	2.831540	3.952410	0.612170	C	2.787562	4.040034	0.680560
C	2.681140	4.014760	-0.806180	C	2.681195	4.103715	-0.742207
C	1.822270	3.102040	-1.466120	C	1.996949	3.083966	-1.444813
H	-1.705450	-2.552050	2.552500	H	-1.711934	-2.433281	2.603831
H	-3.821030	-3.287940	1.431850	H	-3.899998	-3.006804	1.533176
H	-4.071790	-3.056150	-1.048730	H	-4.180545	-2.775828	-0.945023
H	-2.158750	-2.245850	-2.424240	H	-2.250894	-2.079730	-2.362155
H	-1.857630	1.334840	2.789580	H	-1.757973	1.444564	2.693497
H	-4.065500	1.936460	1.772250	H	-3.877730	2.222333	1.614329
H	-4.346030	1.909990	-0.716800	H	-4.084332	2.238055	-0.880301
H	-2.392620	1.431200	-2.187780	H	-2.129399	1.618532	-2.296583
H	2.255260	2.926580	2.433700	H	2.269799	2.928501	2.471088
H	3.607920	4.544810	1.100840	H	3.141649	4.911247	1.237197
H	3.363550	4.631800	-1.396380	H	2.957190	5.022135	-1.266049
H	2.029360	-0.207370	-1.336500	H	2.115584	-0.376098	-1.347141
H	0.152910	1.101520	-2.361620	H	0.376993	1.074170	-2.397657
H	0.652920	0.904610	2.406720	H	0.734140	0.855535	2.381694
H	0.329860	-1.617650	-2.507410	H	0.281749	-1.643725	-2.499541
H	0.756330	-1.836960	2.266870	H	0.781054	-1.880435	2.266482
C	1.182240	-0.362480	0.669410	C	1.252565	-0.433617	0.658738
H	2.246440	-0.329070	0.930980	H	2.315593	-0.442085	0.929013
H	1.729140	3.139820	-2.550850	H	1.896677	3.151751	-2.527395
H	2.115550	-3.448560	-2.860210	H	1.904548	-3.616183	-2.877854
H	3.876890	-4.881630	-1.821590	H	3.562144	-5.185826	-1.870024
H	4.079950	-5.018670	0.677860	H	3.831968	-5.303258	0.624994
H	2.552450	-3.687530	2.131760	H	2.443072	-3.850800	2.104536
Ag	2.059790	-6.382030	-0.555920	Ag	1.680432	-6.525862	-0.464471
Ag	1.447290	5.824060	0.018830	Ag	4.907704	3.501836	-0.208749
Ag	-3.764920	-0.619650	0.790000	Ag	-3.730805	-0.366628	0.660713

Table S25: Cartesian coordinates of [janusene-Ag₃]³⁺ **3f** and **3g**

3f	x	y	z	3g	x	y	z
C	1.214398	-0.303160	-0.889220	C	1.107416	-0.277822	-0.863286
C	0.563406	-1.639583	-1.383471	C	0.606315	-1.660438	-1.433549
C	0.839763	-1.711980	1.207775	C	0.637603	-1.742119	1.177593
C	0.660825	0.935187	1.270340	C	0.608718	0.942265	1.321011
C	0.511512	1.023627	-1.331155	C	0.297264	0.994118	-1.268147
C	1.660039	-2.777504	0.492463	C	1.593480	-2.738782	0.538748
C	2.403217	-3.776787	1.100427	C	2.450997	-3.596526	1.210242
C	2.946036	-4.813500	0.305080	C	3.303003	-4.446976	0.462566
C	2.788078	-4.779559	-1.114178	C	3.306506	-4.377799	-0.961896
C	2.091145	-3.707991	-1.721116	C	2.454614	-3.466886	-1.626244
C	1.505034	-2.742754	-0.918106	C	1.591480	-2.678446	-0.877978
C	-0.580201	-1.984487	0.753557	C	-0.718938	-2.029797	0.574266
C	-1.635670	-2.365980	1.575536	C	-1.880828	-2.375156	1.279766
C	-2.859569	-2.743429	0.999483	C	-3.074273	-2.704142	0.583568
C	-3.020338	-2.715720	-0.409294	C	-3.094185	-2.659567	-0.835479
C	-1.939690	-2.300152	-1.235801	C	-1.907737	-2.313106	-1.550885
C	-0.730697	-1.941918	-0.647307	C	-0.725571	-2.005822	-0.831972
C	-0.757360	1.103982	0.755421	C	-0.828099	1.120717	0.902758
C	-1.887348	1.307862	1.537394	C	-1.887704	1.424905	1.749933
C	-3.113765	1.623112	0.915224	C	-3.161826	1.723349	1.198773
C	-3.191487	1.714198	-0.498749	C	-3.348545	1.659824	-0.210781
C	-2.035513	1.472570	-1.283551	C	-2.259734	1.335474	-1.054031
C	-0.835488	1.173604	-0.652073	C	-1.003808	1.102160	-0.501535
C	1.337988	2.160310	-0.744311	C	1.167794	2.132976	-0.744899
C	1.409348	2.118887	0.672691	C	1.354114	2.091121	0.648562
C	2.024040	3.137509	1.383078	C	2.134983	3.047978	1.285796
C	2.518662	4.264661	0.684466	C	2.735393	4.051959	0.515087
C	2.449500	4.305062	-0.741769	C	2.551156	4.092170	-0.868849
C	1.884276	3.219707	-1.451633	C	1.765430	3.128127	-1.510866
H	-1.510635	-2.412943	2.656643	H	-1.860719	-2.447968	2.367920
H	-3.664920	-3.124697	1.626584	H	-3.923696	-3.129059	1.124920
H	-3.908070	-3.160345	-0.863720	H	-4.031009	-2.819308	-1.372532
H	-2.051612	-2.322896	-2.319540	H	-1.966260	-2.088963	-2.619770
H	-1.830525	1.270358	2.624472	H	-1.736940	1.502532	2.826425
H	-3.976276	1.896775	1.523077	H	-3.952082	2.126106	1.833687
H	-4.097618	2.097584	-0.969930	H	-4.295768	1.980889	-0.644428
H	-2.091218	1.568027	-2.367393	H	-2.399998	1.350830	-2.134664
H	2.054562	3.124620	2.471797	H	2.273566	3.028320	2.366507
H	2.764012	5.172529	1.241625	H	3.343453	4.812792	1.001609
H	2.647859	5.242023	-1.268123	H	3.014476	4.885518	-1.452942
H	2.215139	-0.275039	-1.338145	H	2.107780	-0.141337	-1.289942
H	0.438083	1.089256	-2.421965	H	0.150848	1.049385	-2.352761
H	0.706925	0.929082	2.364608	H	0.734555	0.946224	2.409208
H	0.433717	-1.641505	-2.471061	H	0.588529	-1.649462	-2.528644
H	0.947028	-1.772163	2.296106	H	0.631029	-1.809131	2.270378
C	1.344458	-0.335573	0.664534	C	1.207468	-0.352712	0.689596
H	2.403419	-0.270408	0.944281	H	2.263068	-0.359349	0.986015
H	1.807402	3.269826	-2.537081	H	1.618102	3.168686	-2.589800
H	1.950999	-3.701790	-2.801357	H	2.462773	-3.417032	-2.714801
H	3.026365	-5.665856	-1.707914	H	3.848284	-5.128798	-1.541084
H	3.305538	-5.725019	0.789266	H	3.812256	-5.272304	0.967529
H	2.501273	-3.823865	2.184279	H	2.449372	-3.657447	2.298032
Ag	5.048740	-4.292386	-0.639665	Ag	-3.703055	-0.492348	0.814610
Ag	4.709556	3.971454	-0.128173	Ag	-1.899762	-4.627896	-1.822596
Ag	-3.698772	-0.530343	-0.089819	Ag	5.297631	-3.322498	-0.070115

Table S26: Cartesian coordinates of [janusene-Ag₃]³⁺ **3h** and **3i**

3h	x	y	z	3i	x	y	z
C	0.943183	-0.298765	-0.801374	C	1.071800	-0.350200	-0.886550
C	0.334481	-1.628138	-1.370901	C	0.390230	-1.655640	-1.425010
C	0.530434	-1.799364	1.224777	C	0.631780	-1.806170	1.167960
C	0.441736	0.862805	1.419278	C	0.627980	0.865060	1.314340
C	0.218619	1.042470	-1.173744	C	0.391930	1.001990	-1.279680
C	1.409648	-2.804175	0.493387	C	1.453200	-2.854780	0.432160
C	2.274377	-3.713802	1.081497	C	2.282310	-3.801410	1.014310
C	3.087883	-4.527571	0.256613	C	3.026170	-4.671830	0.185440
C	2.983515	-4.429804	-1.164055	C	2.893080	-4.590890	-1.233780
C	2.067815	-3.521744	-1.742894	C	2.016200	-3.638980	-1.806860
C	1.306835	-2.707921	-0.917554	C	1.319430	-2.774520	-0.977250
C	-0.872078	-2.048116	0.712658	C	-0.788910	-2.014310	0.684520
C	-1.965870	-2.421633	1.484749	C	-1.875010	-2.373700	1.474540
C	-3.179711	-2.756095	0.852620	C	-3.125340	-2.646890	0.856050
C	-3.285023	-2.695458	-0.561429	C	-3.253280	-2.532030	-0.552240
C	-2.167366	-2.283558	-1.333737	C	-2.145110	-2.159520	-1.332840
C	-0.975567	-1.967416	-0.692717	C	-0.921500	-1.920920	-0.716290
C	-0.982579	1.075492	0.955419	C	-0.793870	1.126200	0.853850
C	-2.087297	1.258463	1.779768	C	-1.875300	1.422460	1.676860
C	-3.332154	1.583574	1.209368	C	-3.117310	1.788610	1.089070
C	-3.458214	1.705856	-0.198760	C	-3.242030	1.829100	-0.323900
C	-2.326699	1.487642	-1.029313	C	-2.138880	1.520100	-1.138020
C	-1.102755	1.178924	-0.446607	C	-0.922980	1.189920	-0.548780
C	1.112563	2.120846	-0.576895	C	1.296620	2.085710	-0.706790
C	1.234233	2.022755	0.832341	C	1.427210	2.010250	0.703740
C	2.042719	2.900321	1.537518	C	2.149650	2.965090	1.400810
C	2.780936	3.879057	0.832445	C	2.704880	4.062010	0.695970
C	2.656111	3.979097	-0.586029	C	2.574520	4.134330	-0.724280
C	1.796828	3.097904	-1.283272	C	1.891840	3.112830	-1.422640
H	-1.885599	-2.493164	2.568847	H	-1.769910	-2.491540	2.552930
H	-4.010045	-3.147439	1.440393	H	-3.934850	-3.087450	1.441450
H	-4.170603	-3.095016	-1.058573	H	-4.192810	-2.804020	-1.032920
H	-2.242858	-2.260572	-2.420534	H	-2.245940	-2.094200	-2.415650
H	-1.992495	1.187556	2.862729	H	-1.769290	1.431250	2.761480
H	-4.180816	1.822332	1.850154	H	-3.917640	2.185320	1.716700
H	-4.378342	2.105044	-0.629460	H	-4.172260	2.175570	-0.773440
H	-2.418569	1.610125	-2.108232	H	-2.234250	1.582960	-2.221410
H	2.156979	2.816632	2.617672	H	2.228180	2.929890	2.486860
H	3.568300	4.433394	1.348612	H	3.047100	4.937580	1.253980
H	3.346852	4.612360	-1.147395	H	2.843700	5.054750	-1.247310
H	1.944632	-0.223376	-1.241552	H	2.070330	-0.328680	-1.340140
H	0.113717	1.148646	-2.258786	H	0.281350	1.090490	-2.365840
H	0.525176	0.816693	2.510325	H	0.715500	0.839060	2.405930
H	0.244454	-1.586352	-2.461630	H	0.278230	-1.622850	-2.514070
H	0.603674	-1.902348	2.312715	H	0.722310	-1.899240	2.255640
C	1.071976	-0.406906	0.749729	C	1.210320	-0.435360	0.665790
H	2.132823	-0.391438	1.026666	H	2.273840	-0.450950	0.933910
H	1.723285	3.164595	-2.368131	H	1.774340	3.186710	-2.503140
H	2.006165	-3.438094	-2.827297	H	1.931140	-3.569300	-2.890800
H	3.719451	-4.929779	-1.797564	H	3.591480	-5.133140	-1.875950
H	3.912460	-5.089222	0.702351	H	3.816910	-5.286590	0.621310
H	2.373967	-3.777058	2.164496	H	2.400620	-3.855410	2.096010
Ag	-3.953750	-0.546933	0.002624	Ag	-3.742370	-0.418340	0.834250
Ag	1.888548	-6.425654	-0.446577	Ag	1.694700	-6.507440	-0.561930
Ag	1.440182	5.772805	0.372867	Ag	4.820380	3.534530	-0.135080

Table S27: Cartesian coordinates of [janusene-Ag₃]³⁺ **3j** and **3k**

3j	x	y	z	3k	x	y	z
C	1.170760	-0.286310	-0.879720	C	1.279430	-0.343760	-0.925360
C	0.525240	-1.610490	-1.408480	C	0.722360	-1.699660	-1.488170
C	0.784660	-1.741750	1.182700	C	0.840020	-1.815790	1.116020
C	0.620030	0.914450	1.303030	C	0.694480	0.820190	1.268540
C	0.454890	1.039710	-1.295970	C	0.483390	0.935360	-1.322720
C	1.610940	-2.789890	0.448870	C	1.735890	-2.835090	0.431880
C	2.353460	-3.800910	1.038730	C	2.550060	-3.762200	1.064510
C	2.899530	-4.819890	0.224840	C	3.285170	-4.683880	0.281580
C	2.746700	-4.757410	-1.193980	C	3.224300	-4.614990	-1.143300
C	2.050670	-3.673290	-1.781740	C	2.431350	-3.625350	-1.768270
C	1.461900	-2.724870	-0.961190	C	1.676590	-2.766690	-0.982880
C	-0.631720	-2.008500	0.710570	C	-0.552640	-2.042360	0.568360
C	-1.689800	-2.425770	1.507690	C	-1.696180	-2.274970	1.320380
C	-2.924810	-2.768300	0.899060	C	-2.934970	-2.424410	0.666550
C	-3.070580	-2.657190	-0.508020	C	-2.997900	-2.384220	-0.759230
C	-1.987810	-2.222030	-1.298650	C	-1.813390	-2.186690	-1.510330
C	-0.775820	-1.919120	-0.690360	C	-0.613250	-1.994550	-0.844780
C	-0.800090	1.101970	0.798550	C	-0.740060	0.977560	0.796470
C	-1.921610	1.336280	1.587420	C	-1.831500	1.316000	1.614650
C	-3.159320	1.650510	0.961710	C	-3.064260	1.640850	1.008550
C	-3.240290	1.699680	-0.453530	C	-3.190320	1.612770	-0.381580
C	-2.099070	1.448920	-1.233510	C	-2.088650	1.300930	-1.190530
C	-0.889370	1.169210	-0.606830	C	-0.858680	1.010710	-0.605720
C	1.281870	2.170200	-0.697640	C	1.266840	2.109010	-0.735840
C	1.369220	2.104460	0.717610	C	1.359040	2.055650	0.667260
C	1.994600	3.109610	1.437660	C	1.839590	3.166170	1.394720
C	2.482640	4.248140	0.752210	C	2.272870	4.311320	0.680130
C	2.395560	4.313220	-0.672140	C	2.237230	4.323700	-0.714350
C	1.821150	3.240510	-1.393580	C	1.736950	3.223900	-1.425480
H	-1.570880	-2.538440	2.584830	H	-1.654450	-2.299330	2.408580
H	-3.708220	-3.244260	1.490950	H	-3.857540	-2.438070	1.249400
H	-3.988550	-3.000350	-0.985180	H	-3.967930	-2.305500	-1.257140
H	-2.099450	-2.168420	-2.380850	H	-1.868040	-2.129000	-2.596810
H	-1.852600	1.338350	2.674990	H	-1.754460	1.248970	2.702520
H	-3.997350	2.003090	1.566230	H	-3.919830	1.899970	1.630670
H	-4.171750	2.004830	-0.929530	H	-4.142780	1.870360	-0.842080
H	-2.162400	1.514100	-2.319010	H	-2.186240	1.338970	-2.275720
H	2.038120	3.078660	2.525690	H	2.008970	3.098090	2.472300
H	2.734130	5.146540	1.321900	H	2.671380	5.164810	1.226690
H	2.588390	5.258940	-1.184840	H	2.587830	5.201530	-1.254310
H	2.172810	-0.241670	-1.324390	H	2.283120	-0.228520	-1.351340
H	0.373500	1.121940	-2.385100	H	0.377680	1.017160	-2.409970
H	0.674290	0.891650	2.396790	H	0.776380	0.798010	2.362000
H	0.403820	-1.586660	-2.496710	H	0.664500	-1.677950	-2.581470
H	0.885030	-1.827020	2.270020	H	0.877340	-1.897370	2.207580
C	1.293800	-0.352310	0.673520	C	1.379740	-0.422860	0.629550
H	2.352050	-0.298770	0.958050	H	2.432930	-0.384100	0.932360
H	1.731140	3.309240	-2.476990	H	1.678590	3.264900	-2.513060
H	1.912720	-3.646170	-2.861960	H	2.378440	-3.585240	-2.855690
H	2.979830	-5.634350	-1.803910	H	3.645370	-5.424460	-1.744340
H	3.265550	-5.737690	0.691430	H	3.745170	-5.549970	0.763920
H	2.448140	-3.870150	2.121720	H	2.588160	-3.829180	2.151220
Ag	-3.688190	-0.577740	0.693750	Ag	-3.216400	-4.656320	-0.315150
Ag	4.998040	-4.276840	-0.753500	Ag	-0.557250	3.681510	1.547480
Ag	4.659750	3.967700	-0.074410	Ag	5.335040	-3.760590	-0.440160

Table S28: Cartesian coordinates of [janusene-Ag₃]³⁺ **3l** and [janusene-Ag₄]⁴⁺ **4a**

3l	x	y	z	4a	x	y	z
C	1.275940	-0.283060	-0.896320	C	1.014798	-0.396422	-0.894709
C	0.737940	-1.640550	-1.474030	C	0.417613	-1.769378	-1.396728
C	0.771040	-1.739250	1.131350	C	0.787445	-1.874707	1.187793
C	0.855390	0.892750	1.332200	C	0.391162	0.814801	1.263467
C	0.414350	0.981450	-1.233200	C	0.289630	0.902821	-1.350864
C	1.629060	-2.813740	0.485340	C	1.689906	-2.816366	0.411302
C	2.332060	-3.807820	1.148290	C	2.649055	-3.684637	0.956533
C	3.012700	-4.792240	0.393440	C	3.426944	-4.508503	0.105434
C	3.025190	-4.713300	-1.033400	C	3.222301	-4.449973	-1.316326
C	2.352540	-3.655700	-1.686820	C	2.249285	-3.566213	-1.845818
C	1.635690	-2.739010	-0.931900	C	1.470454	-2.778076	-0.981949
C	-0.613610	-1.925830	0.536010	C	-0.623681	-2.214690	0.768718
C	-1.788620	-2.134690	1.250890	C	-1.665314	-2.598332	1.624629
C	-2.995640	-2.303940	0.560050	C	-2.967900	-2.793719	1.080651
C	-3.008460	-2.328630	-0.866750	C	-3.185728	-2.587710	-0.305617
C	-1.793530	-2.145070	-1.583210	C	-2.117416	-2.259040	-1.151767
C	-0.623370	-1.921760	-0.877930	C	-0.839034	-2.097336	-0.615801
C	-0.614810	1.003540	0.990390	C	-1.004417	1.071470	0.720312
C	-1.660460	1.120630	1.899810	C	-2.096530	1.566070	1.471149
C	-2.967670	1.227550	1.417910	C	-3.208738	2.192439	0.775876
C	-3.213860	1.221790	0.041790	C	-3.215369	2.226496	-0.644338
C	-2.156530	1.124600	-0.871640	C	-2.167908	1.643504	-1.367249
C	-0.855560	1.016150	-0.393140	C	-1.055526	1.121384	-0.704117
C	1.226850	2.164030	-0.732330	C	1.112692	2.041827	-0.738067
C	1.488150	2.101500	0.662190	C	1.159105	2.001970	0.668775
C	2.119340	3.150340	1.312210	C	1.838184	2.982473	1.384871
C	2.430310	4.326040	0.588090	C	2.481468	4.008025	0.676455
C	2.165920	4.388040	-0.815570	C	2.435539	4.048230	-0.719308
C	1.596340	3.274010	-1.475130	C	1.742552	3.066488	-1.439851
H	-1.787650	-2.117450	2.339440	H	-1.478310	-2.805421	2.679501
H	-3.937060	-2.336610	1.108370	H	-3.759252	-3.219594	1.700126
H	-3.959450	-2.221400	-1.397620	H	-4.176699	-2.764462	-0.722673
H	-1.809480	-2.110990	-2.671950	H	-2.290089	-2.152734	-2.222506
H	-1.464470	1.139370	2.971800	H	-1.977541	1.765729	2.540099
H	-3.795980	1.338280	2.115940	H	-3.806754	2.919494	1.341323
H	-4.233560	1.331250	-0.324770	H	-3.972249	2.811252	-1.170831
H	-2.353720	1.156120	-1.943240	H	-2.167094	1.718897	-2.454590
H	2.290780	3.121930	2.387560	H	1.870988	2.964823	2.473988
H	2.673800	5.240920	1.134270	H	3.012945	4.786221	1.222510
H	2.215860	5.348190	-1.334810	H	2.934254	4.855596	-1.253693
H	2.261900	-0.128410	-1.352100	H	2.014094	-0.322839	-1.340311
H	0.207050	1.050350	-2.306910	H	0.240887	0.970595	-2.442713
H	1.037500	0.879040	2.412270	H	0.421124	0.809661	2.358582
H	0.719050	-1.622880	-2.568760	H	0.250949	-1.757223	-2.478837
H	0.764160	-1.811780	2.224000	H	0.939332	-1.948223	2.269719
C	1.425000	-0.390200	0.650250	C	1.139568	-0.426579	0.656840
H	2.487440	-0.458930	0.916400	H	2.186432	-0.261419	0.936959
H	1.369490	3.338650	-2.538530	H	1.699858	3.112222	-2.527764
H	2.346690	-3.611910	-2.775380	H	2.155967	-3.453638	-2.927917
H	3.394940	-5.558910	-1.618260	H	3.960236	-4.907882	-1.988253
H	3.361500	-5.702300	0.888230	H	3.999798	-5.341469	0.534856
H	2.311970	-3.880820	2.235070	H	2.751891	-3.780915	2.039075
Ag	-3.233120	-4.584280	-0.705140	Ag	-5.194306	0.967511	0.687128
Ag	5.177960	-4.098870	-0.223800	Ag	1.908918	-6.332561	-1.885653
Ag	4.497740	4.218640	-0.498270	Ag	5.410971	-3.293017	0.510785
				Ag	-2.934017	-0.520360	1.590203

Table S29: Cartesian coordinates of [janusene-Ag₄]⁴⁺ **4b** and **4c**

4b	x	y	z	4c	x	y	z
C	1.010855	-0.317665	-0.895695	C	1.112240	-0.383970	-0.888460
C	0.407554	-1.675537	-1.410649	C	0.482350	-1.717540	-1.431730
C	0.651533	-1.756275	1.191243	C	0.645580	-1.820050	1.174030
C	0.526421	0.943399	1.277890	C	0.731560	0.866250	1.309820
C	0.305769	1.020457	-1.326317	C	0.418360	0.965160	-1.283310
C	1.548829	-2.762294	0.474082	C	1.501110	-2.876120	0.480500
C	2.477775	-3.598340	1.075229	C	2.349450	-3.777620	1.106700
C	3.340989	-4.366638	0.257882	C	3.181550	-4.600350	0.316460
C	3.205695	-4.323503	-1.159688	C	3.102160	-4.540090	-1.104480
C	2.208486	-3.513776	-1.751031	C	2.187740	-3.653130	-1.725330
C	1.414764	-2.720030	-0.936066	C	1.419240	-2.814460	-0.932410
C	-0.748959	-2.059790	0.714706	C	-0.757960	-2.036460	0.649420
C	-1.820239	-2.436013	1.516678	C	-1.878720	-2.346330	1.411570
C	-3.056588	-2.776930	0.909331	C	-3.115790	-2.620620	0.753550
C	-3.191619	-2.718839	-0.511853	C	-3.184070	-2.585240	-0.671970
C	-2.091525	-2.324512	-1.311376	C	-2.042980	-2.255700	-1.422980
C	-0.882910	-2.009639	-0.700771	C	-0.843490	-1.992360	-0.767060
C	-0.892282	1.159935	0.805137	C	-0.693890	1.154890	0.897170
C	-1.997736	1.388983	1.616188	C	-1.740120	1.473710	1.755240
C	-3.254300	1.672832	1.016556	C	-2.996660	1.839190	1.210570
C	-3.371474	1.705208	-0.407208	C	-3.178920	1.855200	-0.207120
C	-2.237541	1.459165	-1.215729	C	-2.101990	1.515830	-1.065790
C	-1.012087	1.200658	-0.612106	C	-0.869540	1.187130	-0.515390
C	1.221093	2.108678	-0.770510	C	1.349590	2.054150	-0.751570
C	1.340166	2.067840	0.640846	C	1.528040	1.992940	0.653400
C	2.193547	2.934351	1.307011	C	2.284980	2.946650	1.318020
C	2.997414	3.822857	0.551964	C	2.821350	4.028820	0.585200
C	2.876165	3.862482	-0.866858	C	2.642960	4.092680	-0.826630
C	1.952873	3.016769	-1.521808	C	1.926260	3.070800	-1.497090
H	-1.715055	-2.508208	2.598773	H	-1.818860	-2.426610	2.496880
H	-3.851828	-3.216104	1.512543	H	-3.943200	-3.044420	1.325390
H	-4.094851	-3.102752	-0.986622	H	-4.101030	-2.889890	-1.175750
H	-2.193369	-2.309982	-2.396071	H	-2.097550	-2.242980	-2.510970
H	-1.908275	1.392725	2.702294	H	-1.596730	1.490460	2.835120
H	-4.084901	2.010637	1.637426	H	-3.774470	2.237500	1.862550
H	-4.301934	2.039567	-0.866416	H	-4.094030	2.270010	-0.630460
H	-2.328963	1.512098	-2.300277	H	-2.240500	1.568950	-2.145000
H	2.309493	2.893246	2.389632	H	2.404780	2.918700	2.400370
H	3.835541	4.327201	1.042093	H	3.215880	4.893560	1.124860
H	3.605825	4.417967	-1.461786	H	2.869750	5.019050	-1.363080
H	2.009100	-0.265536	-1.345892	H	2.109050	-0.336890	-1.342580
H	0.204401	1.082170	-2.414913	H	0.273860	1.039310	-2.366140
H	0.608483	0.941557	2.369933	H	0.856300	0.853970	2.397480
H	0.297749	-1.672724	-2.500147	H	0.408500	-1.702660	-2.524010
H	0.747203	-1.820337	2.280236	H	0.700810	-1.894610	2.265110
C	1.147852	-0.362044	0.657592	C	1.253220	-0.461490	0.662210
H	2.209500	-0.321689	0.927708	H	2.315480	-0.509200	0.928690
H	1.879823	3.039659	-2.608607	H	1.769940	3.141960	-2.572830
H	2.124816	-3.470532	-2.836469	H	2.145930	-3.598410	-2.812630
H	3.974157	-4.771536	-1.795263	H	3.872510	-5.021550	-1.714090
H	4.219132	-4.838561	0.707930	H	3.987490	-5.162460	0.794260
H	2.602479	-3.619997	2.157413	H	2.426970	-3.819340	2.192540
Ag	-6.400731	-0.666390	0.589139	Ag	-6.326900	-0.192810	0.596350
Ag	2.441469	-6.478617	-0.397698	Ag	2.124100	-6.625220	-0.574660
Ag	1.944871	5.898536	0.076572	Ag	4.944320	3.634850	-0.536370
Ag	-3.596785	-0.548762	0.395913	Ag	-3.515100	-0.365510	0.590900

Table S30: Cartesian coordinates of [janusene-Ag₄]⁴⁺ **4d** and **4e**

4d	x	y	z	4e	x	y	z
C	1.217690	-0.291970	-0.869250	C	1.137510	-0.206860	-0.860180
C	0.605620	-1.640850	-1.382130	C	0.538170	-1.554030	-1.417050
C	0.864460	-1.726540	1.216000	C	0.856270	-1.740270	1.168600
C	0.744950	0.945640	1.315760	C	0.432540	0.899160	1.323480
C	0.490010	1.034800	-1.282750	C	0.430650	1.128250	-1.276080
C	1.698300	-2.785370	0.497490	C	1.774630	-2.676740	0.384270
C	2.441400	-3.785530	1.106570	C	2.692970	-3.563500	0.926400
C	2.999750	-4.809150	0.306270	C	3.385850	-4.446630	0.065750
C	2.860650	-4.762340	-1.111080	C	3.188260	-4.371500	-1.341800
C	2.162470	-3.691330	-1.719150	C	2.301630	-3.407620	-1.882210
C	1.558940	-2.738180	-0.913000	C	1.585320	-2.594910	-1.017550
C	-0.547610	-2.014920	0.749750	C	-0.537850	-2.100710	0.713110
C	-1.611030	-2.394790	1.560200	C	-1.569440	-2.586060	1.524950
C	-2.840760	-2.759310	0.964220	C	-2.798370	-2.992110	0.942970
C	-2.986150	-2.716600	-0.455790	C	-2.976150	-2.887850	-0.477000
C	-1.892500	-2.311000	-1.268070	C	-1.923560	-2.385590	-1.278080
C	-0.688730	-1.969620	-0.664840	C	-0.714620	-1.981140	-0.679150
C	-0.687890	1.142060	0.865310	C	-0.956620	1.017010	0.726530
C	-1.780410	1.360180	1.696190	C	-2.149260	1.082480	1.440900
C	-3.038680	1.659720	1.122520	C	-3.349830	1.382800	0.764920
C	-3.180180	1.718160	-0.297550	C	-3.342220	1.604310	-0.641010
C	-2.055980	1.475280	-1.131790	C	-2.125400	1.483120	-1.362900
C	-0.826420	1.194560	-0.549590	C	-0.953330	1.186420	-0.675520
C	1.345580	2.171580	-0.727700	C	1.217670	2.234870	-0.579680
C	1.481870	2.124680	0.682920	C	1.196280	2.126640	0.832480
C	2.134730	3.138220	1.367930	C	1.873890	3.038490	1.627030
C	2.602370	4.263580	0.646420	C	2.633650	4.058580	1.009180
C	2.467080	4.307770	-0.771260	C	2.658620	4.167350	-0.410520
C	1.865910	3.229360	-1.458950	C	1.920190	3.254390	-1.202830
H	-1.499180	-2.457780	2.642060	H	-1.455730	-2.604780	2.609880
H	-3.633680	-3.187740	1.577480	H	-3.676720	-3.144570	1.584130
H	-3.875120	-3.141930	-0.923110	H	-3.867630	-3.313330	-0.947750
H	-1.999530	-2.315550	-2.352350	H	-2.028690	-2.380320	-2.364280
H	-1.674070	1.347410	2.780350	H	-2.159580	0.969180	2.524690
H	-3.864920	1.969990	1.762440	H	-4.265330	1.554600	1.332020
H	-4.103580	2.099130	-0.735280	H	-4.230460	2.006500	-1.132790
H	-2.163090	1.555400	-2.213100	H	-2.113300	1.677420	-2.435440
H	2.215600	3.125000	2.454330	H	1.872150	2.953040	2.713090
H	2.870050	5.170930	1.196650	H	3.325620	4.650340	1.613560
H	2.656080	5.241430	-1.308040	H	3.384110	4.827550	-0.893780
H	2.209260	-0.231150	-1.333470	H	2.146850	-0.153560	-1.284530
H	0.371130	1.101510	-2.369260	H	0.425010	1.249520	-2.364370
H	0.839450	0.938820	2.406710	H	0.415220	0.835350	2.416720
H	0.487020	-1.636520	-2.470700	H	0.389360	-1.509470	-2.500870
H	0.963500	-1.793260	2.304510	H	0.985210	-1.845550	2.250790
C	1.371800	-0.343200	0.680760	C	1.233020	-0.294150	0.692150
H	2.435550	-0.305600	0.944540	H	2.274360	-0.151030	1.002670
H	1.741950	3.283270	-2.539950	H	1.954670	3.335820	-2.288730
H	2.035520	-3.678490	-2.801120	H	2.147580	-3.362820	-2.959800
H	3.107330	-5.642130	-1.712870	H	3.562780	-5.169960	-1.989320
H	3.363960	-5.720190	0.789420	H	3.932060	-5.290370	0.495890
H	2.528950	-3.843460	2.190950	H	2.840910	-3.635870	2.003420
Ag	-6.253750	-0.649920	0.482050	Ag	-2.419580	-5.261140	1.254340
Ag	5.161820	-4.381150	-0.647890	Ag	1.347130	5.999490	0.349410
Ag	4.813670	4.097160	-0.197200	Ag	5.408210	-3.582190	-0.968720
Ag	-3.443910	-0.538180	0.256050	Ag	-3.757560	-0.663430	-0.604470

Table S31: Cartesian coordinates of [janusene-Ag₄]⁴⁺ **4f** and **4g**

4f	x	y	z	4g	x	y	z
C	-4.872250	-2.783730	0.105500	C	1.093280	-0.207600	-0.842930
C	-3.544460	-3.147420	-0.260580	C	0.634460	-1.587090	-1.432870
C	-2.856870	-4.147130	0.472310	C	0.648470	-1.706120	1.176160
C	-5.505780	-3.423230	1.195370	C	0.558500	0.975030	1.360900
C	-4.849020	-4.458730	1.843140	C	0.243210	1.053720	-1.228260
C	-3.524840	-4.816350	1.484830	C	1.622110	-2.692650	0.527440
H	-5.468360	-2.152880	-0.559210	C	2.430870	-3.600050	1.193440
H	-6.532720	-3.161110	1.447670	C	3.227370	-4.494120	0.435850
H	-3.136280	-2.824160	-1.223280	C	3.241280	-4.406030	-0.984770
H	-1.852340	-4.439420	0.168290	C	2.456640	-3.429340	-1.641820
C	-5.476080	-5.422530	2.849520	C	1.629790	-2.610320	-0.887390
C	-3.020470	-6.049720	2.232190	C	-0.692420	-2.047790	0.559200
C	-3.098200	-5.661900	3.746660	C	-1.819810	-2.530080	1.255670
C	-4.584060	-5.403560	4.131680	C	-2.969680	-2.941920	0.540290
C	-5.363980	-6.768560	2.167870	C	-2.975440	-2.873100	-0.893320
H	-6.512130	-5.154870	3.082330	C	-1.827260	-2.391510	-1.573640
C	-4.029830	-7.129770	1.875280	C	-0.696100	-2.000290	-0.848480
H	-2.000520	-6.319330	1.937410	C	-0.886520	1.103870	0.943460
C	-2.453070	-6.669530	4.762260	C	-1.964560	1.315310	1.798250
H	-2.523890	-4.734150	3.853210	C	-3.260180	1.511690	1.247140
C	-4.990880	-6.380070	5.301530	C	-3.439020	1.453590	-0.163700
H	-4.682480	-4.398220	4.557860	C	-2.332530	1.244430	-1.009120
C	-4.082410	-5.958010	6.457470	C	-1.061780	1.100830	-0.457340
C	-2.706180	-6.087920	6.151200	C	1.078990	2.214320	-0.693680
H	-1.385830	-6.805590	4.558750	C	1.271970	2.156090	0.708430
C	-3.214160	-7.975330	4.757140	C	2.057380	3.096420	1.357020
C	-4.587820	-7.816680	5.026750	C	2.709000	4.095010	0.592790
H	-6.053020	-6.286360	5.550820	C	2.512600	4.153360	-0.816710
C	-4.491240	-5.525260	7.709300	C	1.668180	3.213750	-1.452740
C	-1.731570	-5.755170	7.085570	H	-1.780350	-2.666010	2.338010
C	-3.506160	-5.253980	8.700160	H	-3.800310	-3.421530	1.066720
C	-2.125360	-5.369090	8.378420	H	-3.931030	-2.944470	-1.429580
H	-5.547830	-5.460370	7.968430	H	-1.850950	-2.283840	-2.659050
H	-3.815700	-5.221700	9.752420	H	-1.821160	1.387490	2.876640
H	-0.671940	-5.851300	6.850390	H	-4.078560	1.852890	1.885060
H	-1.373180	-5.265900	9.162550	H	-4.417980	1.671330	-0.591650
C	-2.660450	-9.248610	4.586380	H	-2.474370	1.256850	-2.089640
C	-5.416650	-8.946120	5.168340	H	2.224420	3.048560	2.432640
C	-3.478760	-10.400440	4.720180	H	3.496260	4.694380	1.058440
C	-4.874400	-10.244280	5.014800	H	3.137980	4.809520	-1.427580
H	-5.485510	-11.123140	5.243340	H	2.091330	-0.034640	-1.261940
H	-3.111290	-11.369630	4.357610	H	0.093200	1.119900	-2.311230
H	-6.459820	-8.830000	5.467080	H	0.685830	0.967070	2.448560
H	-1.613930	-9.362210	4.299840	H	0.622740	-1.563290	-2.527490
C	-3.754960	-8.308250	1.188750	H	0.639600	-1.790060	2.267900
C	-6.429880	-7.545770	1.728960	C	1.191120	-0.302120	0.708950
C	-4.821510	-9.110800	0.729610	H	2.245730	-0.296190	1.008330
C	-6.168140	-8.723440	0.981370	H	1.536470	3.255050	-2.533440
H	-4.619190	-9.963690	0.080430	H	2.464670	-3.376020	-2.730120
H	-6.986470	-9.244450	0.480030	H	3.714720	-5.194470	-1.576090
H	-7.460420	-7.232760	1.896290	H	3.670080	-5.361790	0.934260
H	-2.731420	-8.585400	0.937380	H	2.417140	-3.680770	2.279930
Ag	-5.740920	-10.049520	2.824470	Ag	-3.633320	-0.749690	1.113150
Ag	-2.613600	-11.054880	6.771930	Ag	-2.698120	-5.099980	-1.479680
Ag	-3.159200	-2.976530	8.851320	Ag	1.349380	6.007180	0.199420
Ag	-3.347280	-0.960550	0.600590	Ag	5.390680	-3.668070	-0.122400

Table S32: Cartesian coordinates of [janusene-Ag₄]⁴⁺ **4h** and **4i**

4h	x	y	z	4i	x	y	z
C	1.183480	-0.269960	-0.902150	C	1.269310	-0.285360	-0.894520
C	0.638560	-1.620170	-1.487010	C	0.645890	-1.615750	-1.441410
C	0.724310	-1.762360	1.118200	C	0.852400	-1.750210	1.156900
C	0.776580	0.907130	1.326320	C	0.757620	0.911970	1.304550
C	0.368640	1.020700	-1.247610	C	0.540700	1.043670	-1.292990
C	1.610260	-2.804370	0.433110	C	1.692970	-2.800080	0.436790
C	2.351530	-3.793750	1.060200	C	2.444840	-3.797570	1.038870
C	3.051370	-4.741070	0.261280	C	3.039500	-4.794500	0.229860
C	3.034110	-4.624650	-1.156190	C	2.925790	-4.721950	-1.188950
C	2.322800	-3.579290	-1.769990	C	2.218840	-3.651310	-1.787720
C	1.583100	-2.707070	-0.978970	C	1.580980	-2.726510	-0.975290
C	-0.654350	-2.019880	0.541150	C	-0.559150	-1.986810	0.657180
C	-1.786070	-2.437750	1.267920	C	-1.655430	-2.319490	1.440260
C	-2.981140	-2.769080	0.586420	C	-2.903510	-2.549640	0.821880
C	-3.026560	-2.686710	-0.845630	C	-3.017100	-2.479810	-0.598060
C	-1.871260	-2.273340	-1.558960	C	-1.879190	-2.176870	-1.381870
C	-0.696690	-1.961040	-0.865570	C	-0.671020	-1.915080	-0.752840
C	-0.680840	1.097830	0.966240	C	-0.671880	1.094340	0.834350
C	-1.708270	1.373130	1.862360	C	-1.783450	1.258850	1.648150
C	-3.005800	1.663720	1.363000	C	-3.050620	1.460800	1.057270
C	-3.241910	1.630000	-0.040320	C	-3.169630	1.532170	-0.362130
C	-2.184920	1.347040	-0.930210	C	-2.018800	1.401410	-1.173070
C	-0.908250	1.113890	-0.427730	C	-0.789440	1.165920	-0.575320
C	1.221470	2.177320	-0.729140	C	1.393000	2.164950	-0.709120
C	1.466750	2.099130	0.665080	C	1.510390	2.094830	0.701660
C	2.140100	3.114930	1.327000	C	2.179690	3.085010	1.403490
C	2.500130	4.279110	0.611470	C	2.696060	4.205000	0.695700
C	2.246710	4.363080	-0.787460	C	2.579770	4.264290	-0.722440
C	1.638270	3.275590	-1.463530	C	1.957470	3.214710	-1.423150
H	-1.726460	-2.574490	2.348940	H	-1.572850	-2.378000	2.525180
H	-3.820230	-3.208400	1.134700	H	-3.801840	-2.639300	1.437360
H	-4.000330	-2.697470	-1.353360	H	-4.004350	-2.493770	-1.067760
H	-1.923280	-2.149310	-2.641650	H	-1.971140	-2.123120	-2.466310
H	-1.519090	1.430390	2.934340	H	-1.697360	1.206160	2.733090
H	-3.773420	2.054810	2.034130	H	-3.948290	1.411040	1.678550
H	-4.214410	1.933320	-0.429590	H	-4.158560	1.527850	-0.827940
H	-2.366580	1.383690	-2.004090	H	-2.114930	1.457970	-2.256980
H	2.308610	3.072920	2.402470	H	2.244810	3.060280	2.491030
H	2.800690	5.171720	1.166370	H	2.942020	5.113630	1.257840
H	2.313230	5.329890	-1.296560	H	2.857010	5.176620	-1.254360
H	2.172750	-0.135790	-1.355170	H	2.269300	-0.221090	-1.339890
H	0.179350	1.100740	-2.323480	H	0.436890	1.129370	-2.379930
H	0.942300	0.886440	2.408600	H	0.836650	0.886080	2.396680
H	0.595380	-1.587660	-2.580620	H	0.549340	-1.588960	-2.532050
H	0.742680	-1.853140	2.209260	H	0.928570	-1.838120	2.245970
C	1.328750	-0.385120	0.643640	C	1.395360	-0.366270	0.659000
H	2.391340	-0.439040	0.908320	H	2.454780	-0.344270	0.941340
H	1.421900	3.359240	-2.528000	H	1.859220	3.273580	-2.506650
H	2.305460	-3.503650	-2.856870	H	2.119340	-3.612790	-2.872070
H	3.479740	-5.407600	-1.772240	H	3.206960	-5.581980	-1.803720
H	3.367450	-5.684740	0.723110	H	3.415770	-5.706750	0.701260
H	2.347030	-3.902690	2.144530	H	2.519070	-3.871020	2.123420
Ag	-3.580590	-0.554380	1.127360	Ag	-3.129230	-4.794990	-0.066550
Ag	-2.895520	-4.910920	-1.499470	Ag	-3.442780	3.760330	0.456370
Ag	5.292440	-4.170610	0.162620	Ag	5.207180	-4.290900	-0.663450
Ag	4.598500	4.278780	-0.622840	Ag	4.951700	3.956770	0.246050

Table S33: Cartesian coordinates of [janusene-Ag₅]⁵⁺ **5**

5	x	y	z
C	1.260262	-0.278881	-0.868493
C	0.518778	-1.566795	-1.397742
C	0.998192	-1.815277	1.157491
C	0.587771	0.846217	1.310037
C	0.699914	1.124978	-1.284113
C	1.809704	-2.788829	0.298105
C	2.685918	-3.757186	0.773562
C	3.210732	-4.704456	-0.125870
C	2.906643	-4.620050	-1.509664
C	2.074136	-3.573636	-1.993036
C	1.515178	-2.689338	-1.083467
C	-0.434713	-2.121991	0.798191
C	-1.403680	-2.628015	1.666643
C	-2.685785	-2.952406	1.170839
C	-2.984866	-2.740676	-0.212024
C	-1.984895	-2.226420	-1.078255
C	-0.708939	-1.930029	-0.575222
C	-0.765620	1.093275	0.659812
C	-1.984134	1.280343	1.330463
C	-3.133223	1.696378	0.605692
C	-3.039028	1.926802	-0.801252
C	-1.812534	1.717172	-1.464114
C	-0.695012	1.302004	-0.736100
C	1.526749	2.173535	-0.531983
C	1.428249	2.051971	0.876796
C	2.024862	2.978319	1.718160
C	2.676040	4.099042	1.148780
C	2.787725	4.216109	-0.262718
C	2.235686	3.219170	-1.104246
H	-1.183996	-2.752341	2.727602
H	-3.496169	-3.198902	1.873995
H	-3.931788	-3.091685	-0.633195
H	-2.201642	-2.132142	-2.143080
H	-2.047310	1.178899	2.414749
H	-4.041779	1.967999	1.151670
H	-3.953534	2.104194	-1.388377
H	-1.745356	1.860716	-2.542975
H	1.937360	2.900194	2.801463
H	2.921995	4.949573	1.792289
H	3.119219	5.158258	-0.710684
H	2.262782	-0.329988	-1.308316
H	0.746643	1.263800	-2.369172
H	0.517029	0.761436	2.399560
H	0.296505	-1.497307	-2.467838
H	1.200955	-1.941218	2.226024
C	1.368091	-0.369758	0.677793
H	2.411135	-0.225221	0.981484
H	2.308141	3.329550	-2.185954
H	1.827407	-3.528338	-3.053585
H	3.084602	-5.486786	-2.160302
H	3.751496	-5.569304	0.264688
H	2.914687	-3.838542	1.835910
Ag	-2.955386	-5.609962	1.517703
Ag	-3.766270	4.582721	-1.143478
Ag	5.209735	-4.249508	-1.812559
Ag	5.045576	3.936821	0.598950
Ag	-3.665096	-0.557080	0.274113