

CHEMISTRY

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Supporting Information

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Intervalent bis(μ -aziridinato)M^{II}-M^I Complexes (M = Rh, Ir) Delocalized Metallo-Radicals or Delocalized Aminyl Radicals?

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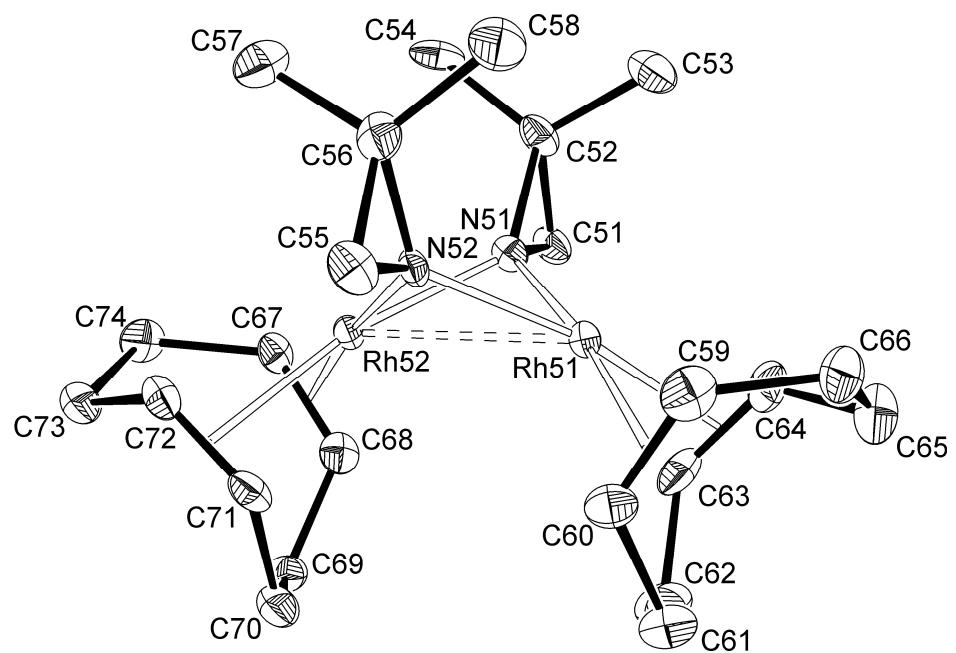


Figure S1. Structure (ortep at 50% level) of the second independent molecule of cation $[3]^+$

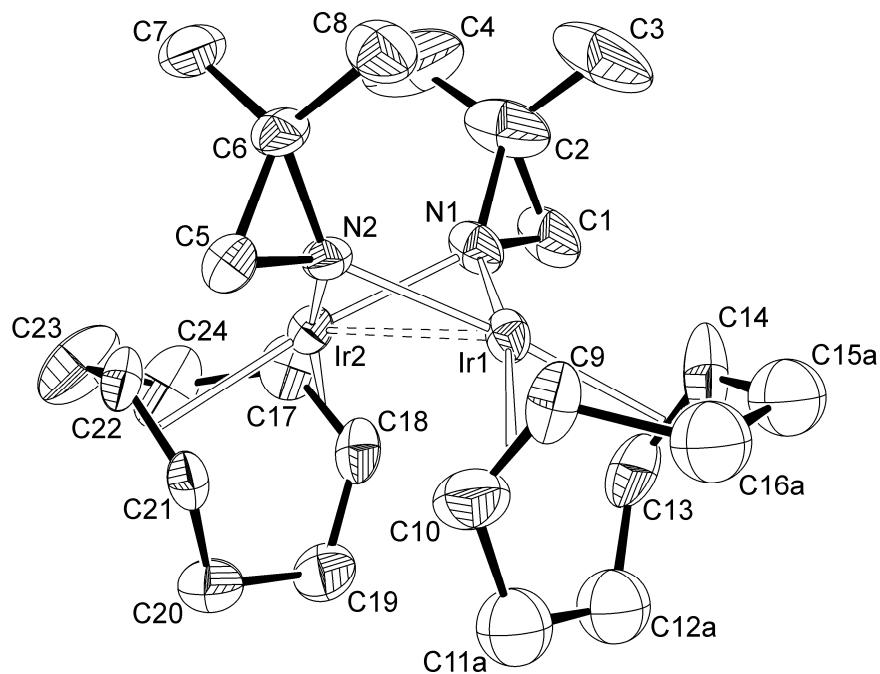


Figure S2. Structure (ortep at 50% level) of $[4]^+$

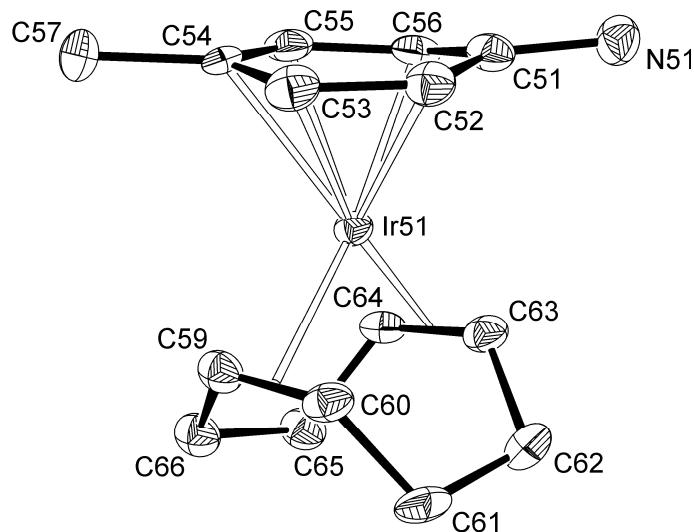


Figure S3. Structure (ortep at 50% level) of the second independent molecule of cation $[7]^+$

Table S1. Selected bond distances (\AA) and angles ($^\circ$) of complex $[7]^+$

Ir1-C2	2.328(7), 2.305(8)	Ir1-Ct1 ^[a]	2.017(8), 2.004(8)
Ir1-C3	2.247(8), 2.244(8)	Ir1-Ct2 ^[a]	2.009(9), 1.983(9)
Ir1-C4	2.311(8), 2.320(7)	N1-C1	1.338(9), 1.370(9)
Ir1-C5	2.259(7), 2.280(7)	Ir1-C1	2.438(7), 2.416(7)
Ir1-C6	2.239(7), 2.235(7)		
Ct1 ^[a] -Ir1-Ct2 ^[a]	86.2(3), 86.7(3)	Ct1 ^[a] -Ir1-C3	100.8(3), 99.1(3)
C3-Ir1-C6	76.3(3), 76.7(3)	Ct2 ^[a] -Ir1-C6	99.0(3), 98.4(3)

[a] Ct1 and Ct2 are the midpoints between C9-C10 and C13-C14, respectively.

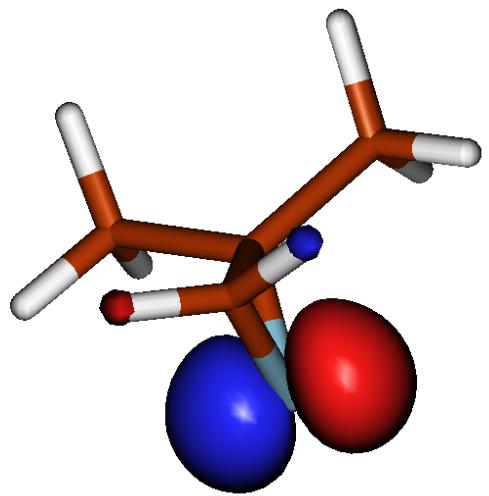


Figure S4. HOMO of the 2,2-dimethylaziridinate anion

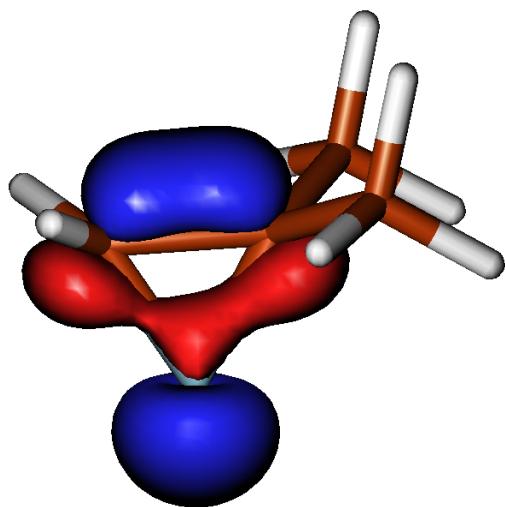


Figure S5. HOMO-1 of the 2,2-dimethylaziridinate anion

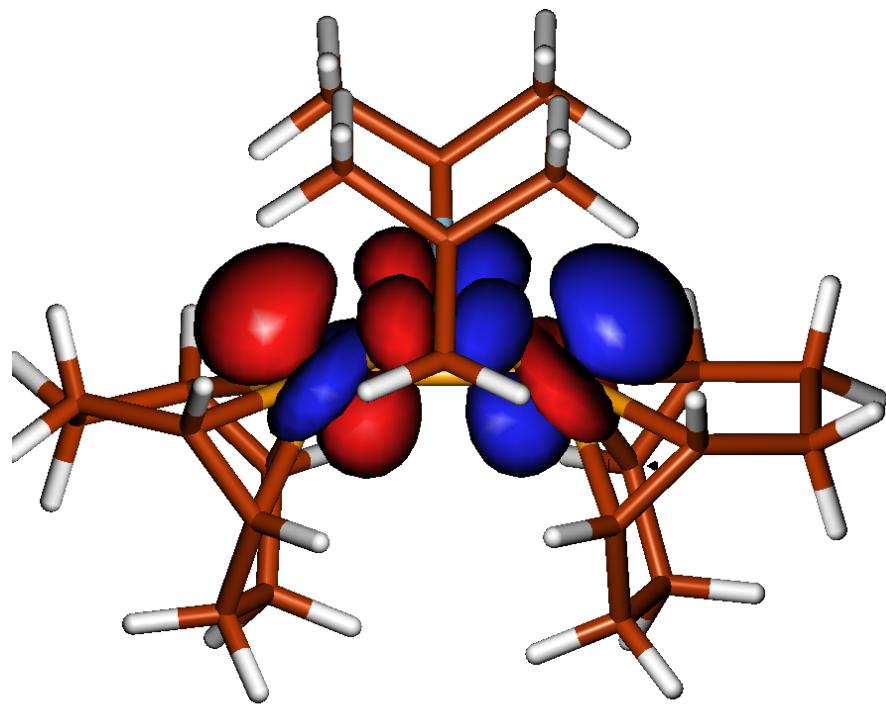


Figure S6. HOMO of complex $[3]^+$

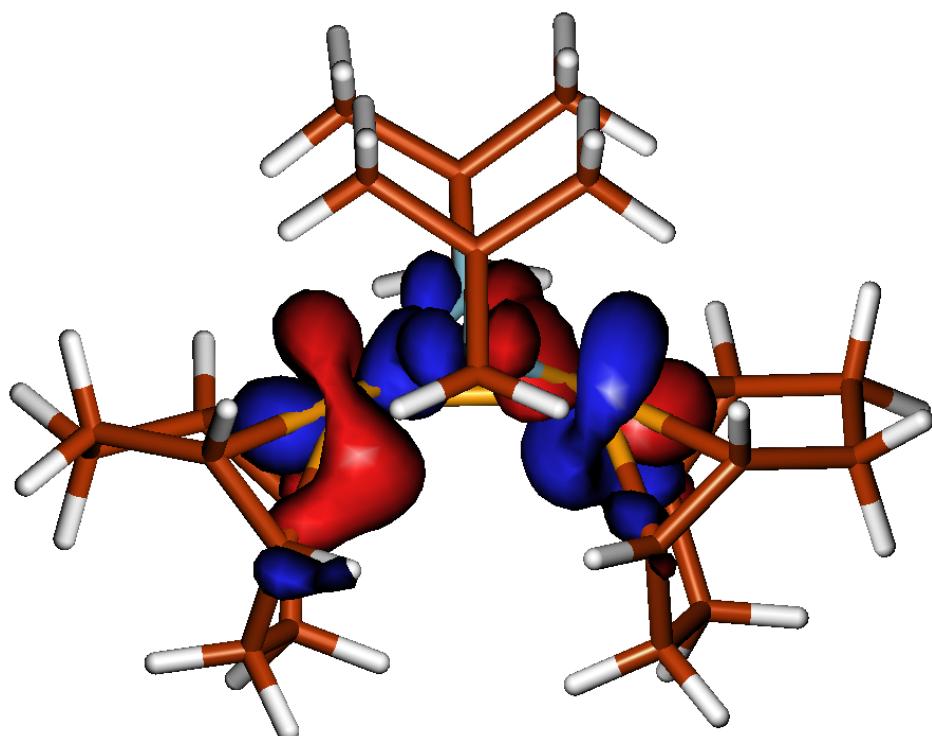


Figure S7. HOMO-2 of complex $[3]^+$

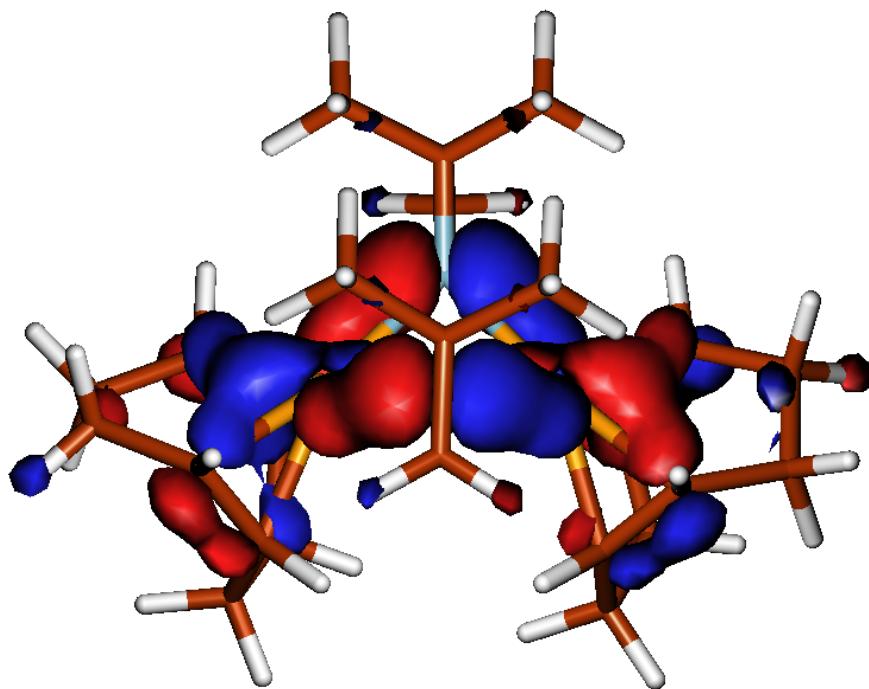


Figure S8. HOMO-8 of complex $[3]^+$

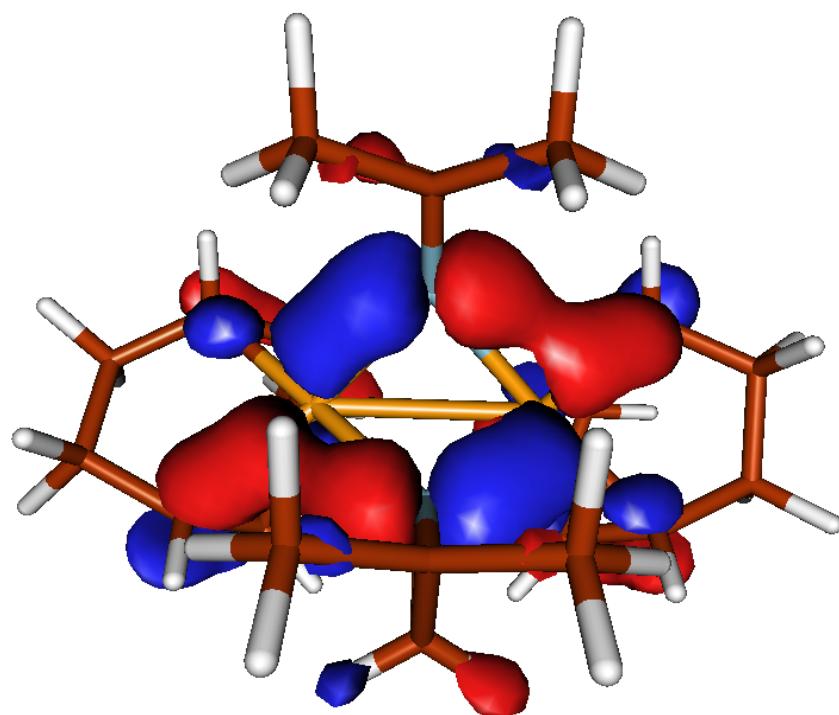


Figure S9. HOMO-9 of complex $[3]^+$

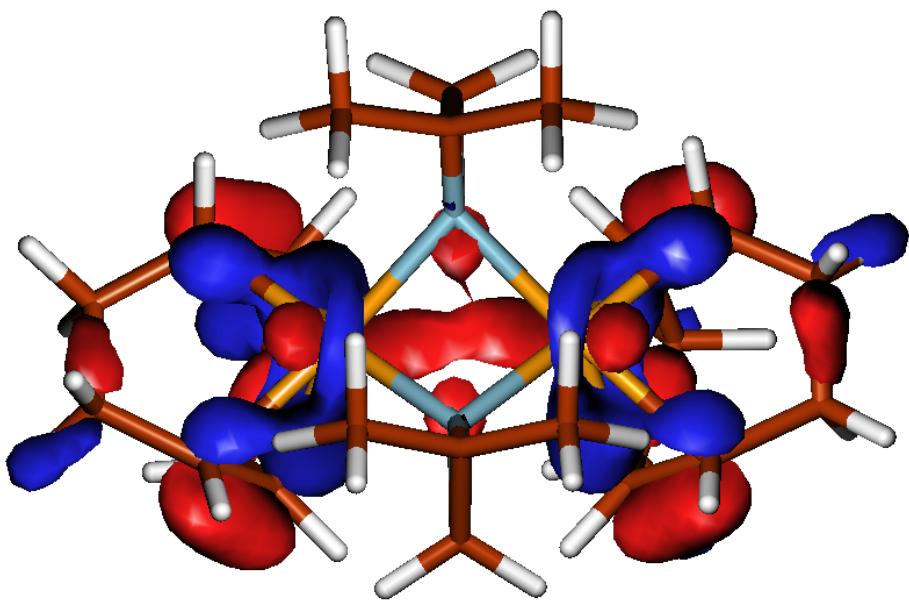


Figure S10. HOMO-11 of complex $[3]^+$

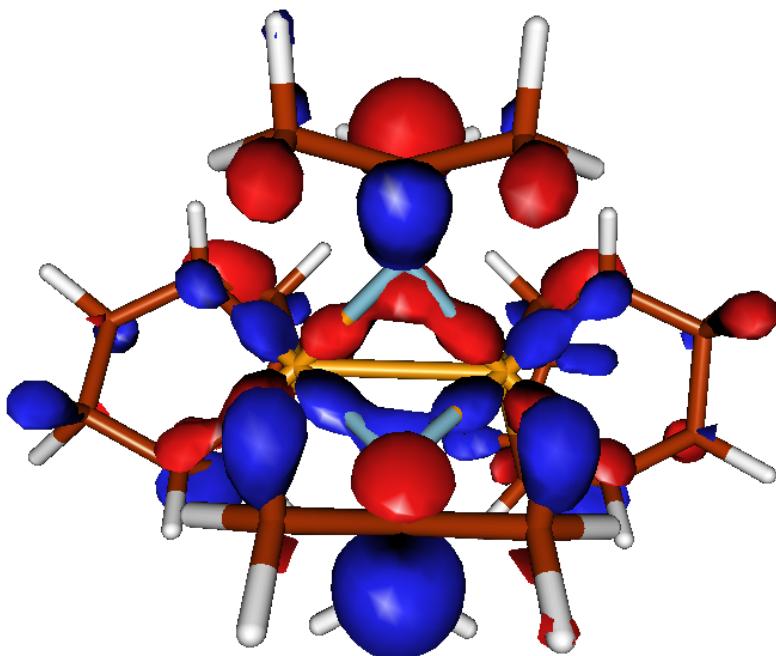


Figure S11. HOMO-12 of complex $[3]^+$

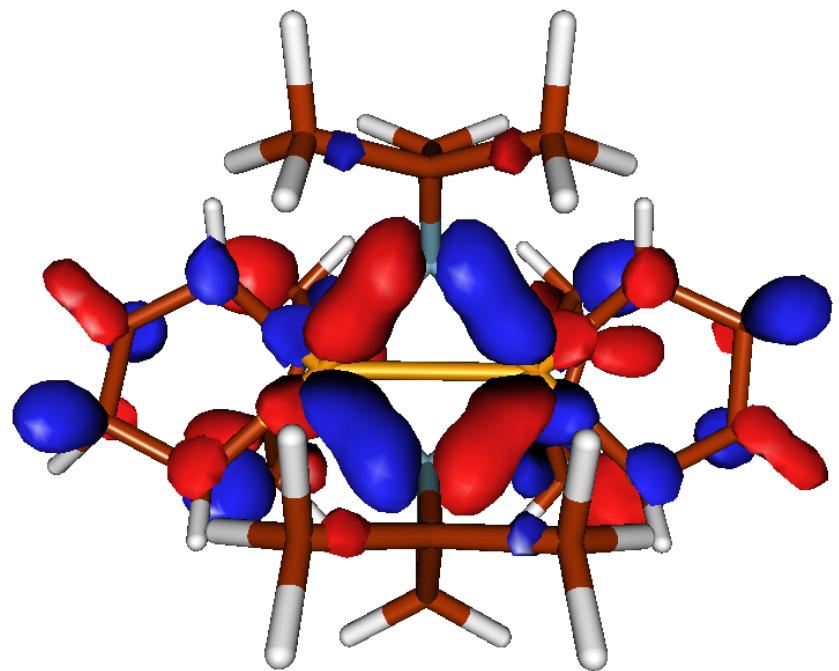


Figure S12. HOMO-13 of complex $[3]^+$

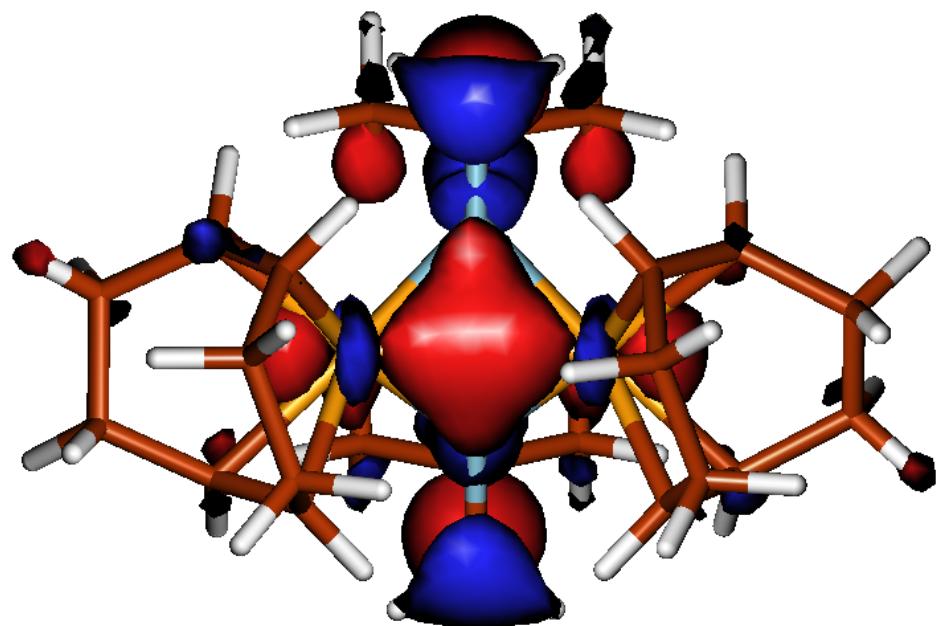


Figure S13. HOMO-15 of complex $[3]^+$ (top view).

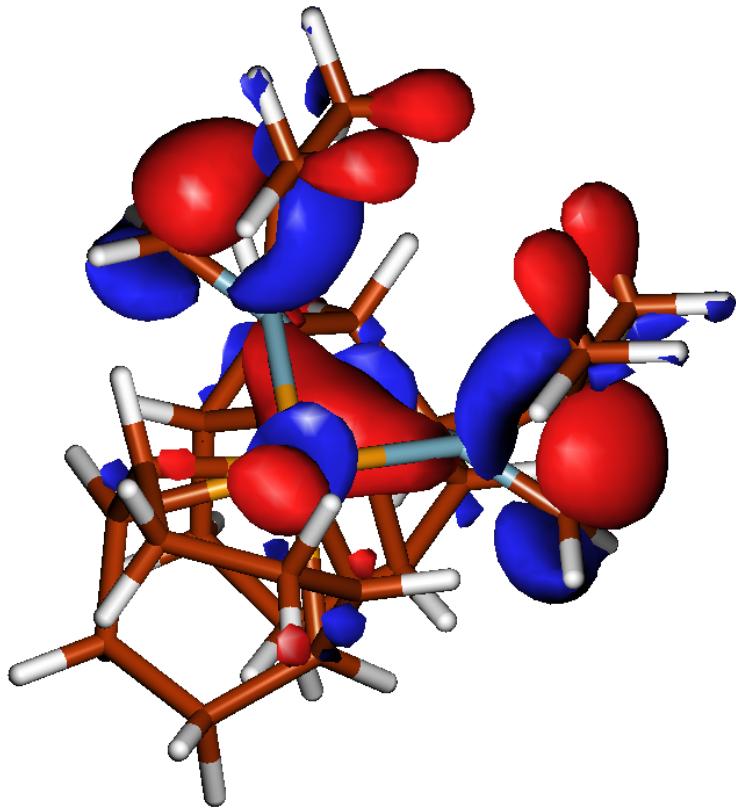


Figure S14. HOMO-15 of complex $[3]^+$ (side view).