Supporting Information

Quantum chemical studies on the enantiomerization mechanism of several $[Zn(py)_3(tach)]^{2+}$ derivates

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Figure S4. Calculated (RB3LYP/LANL2DZp) Δ distance for the ground and transition states of the complexes $[Zn(py_3tach-X)]^{2+}$ (X = C, Si, Ge, N, P, As O, S and Se) versus electronegativity (Pauling scale).

•: $\Delta(H_{py}$ --- H_{py}), **•**: $\Delta(N_{py}$ --- N_{py}).



Figure S5. Calculated (RB3LYP/LANL2DZp) Δ difference for the ground and transition state of the complexes $[Zn(py_3tach-X)]^{2+}$ (X = C, Si, Ge, N, P, As O, S and Se) versus atomic size (Å).

•: $\Delta(H_{py}$ --- H_{py}), **•**: $\Delta(N_{py}$ --- N_{py}).