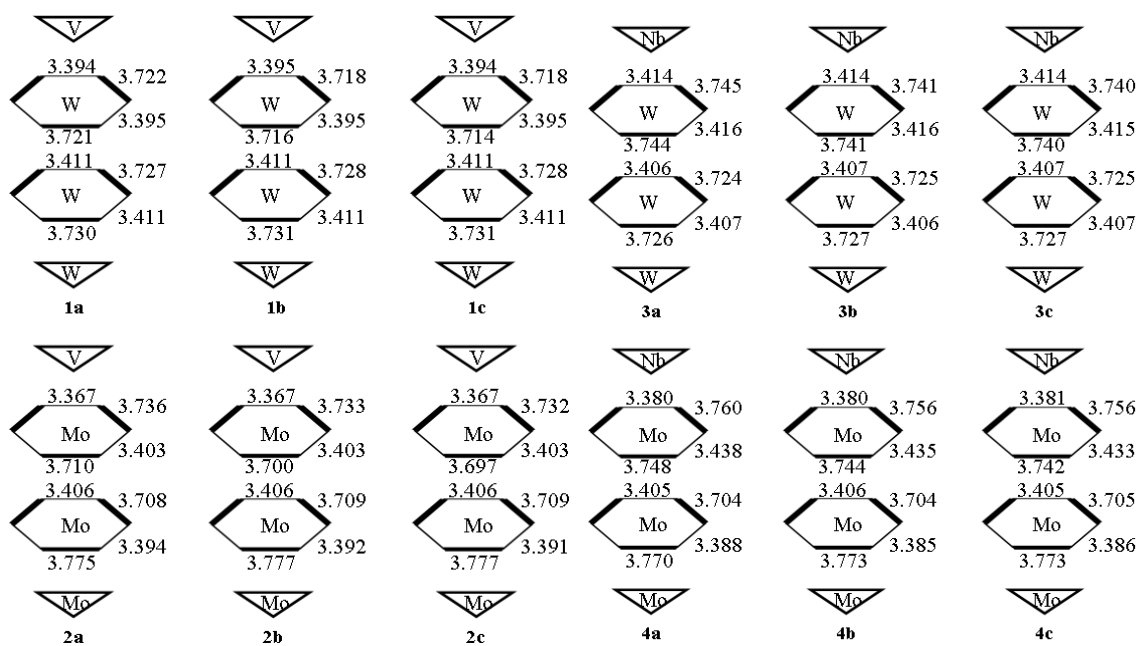
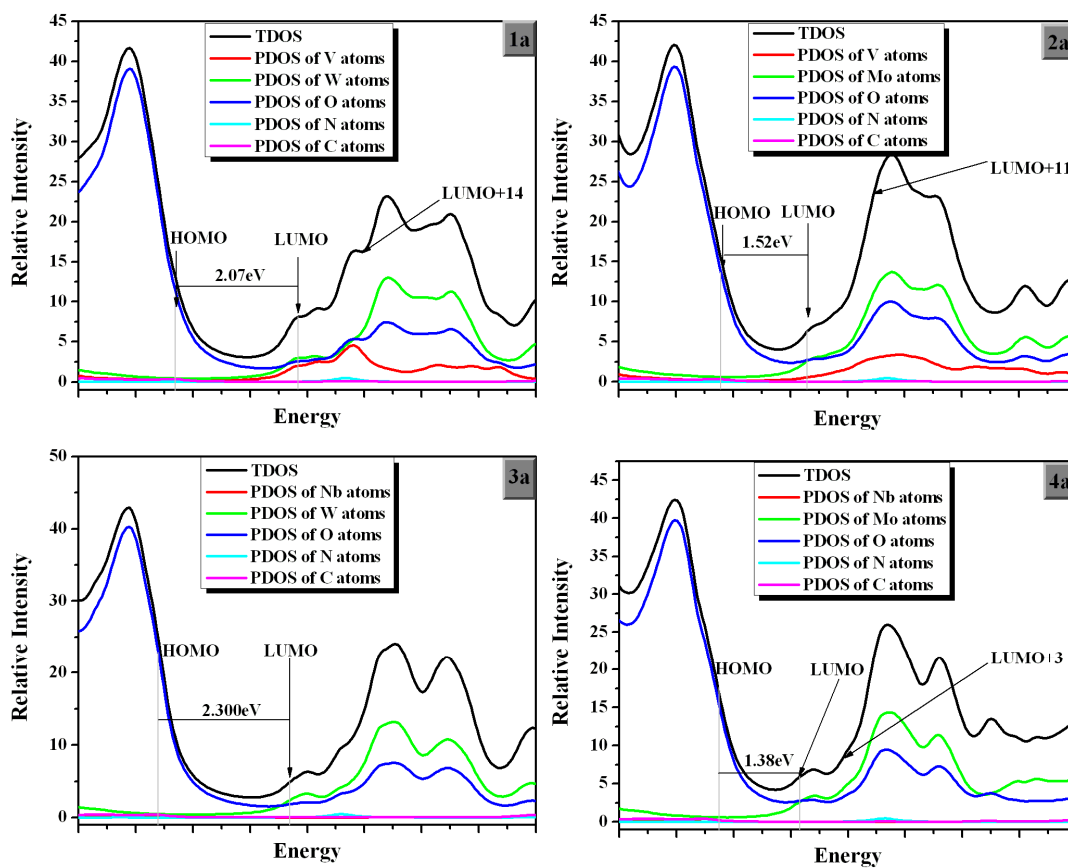
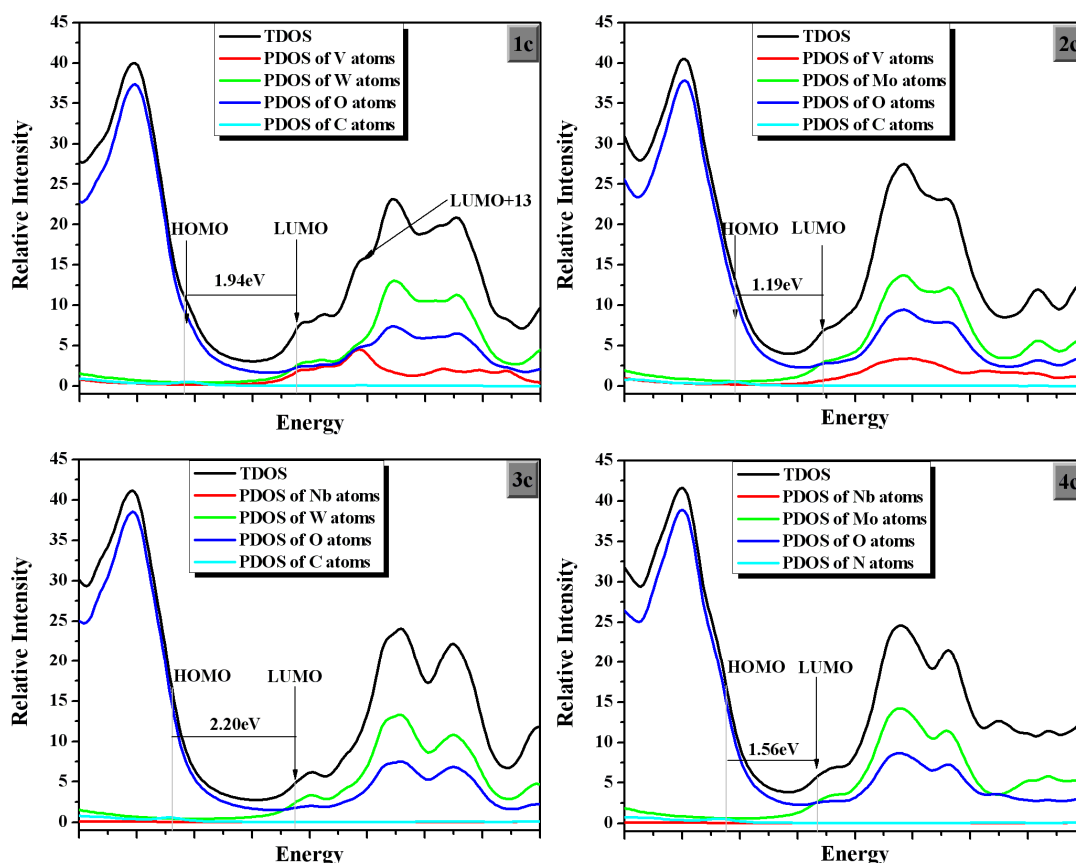


### Supporting information



**Figure S1.** Alternation of W-W inside the two Belts of **a**, **b**, **c**, and **d** isomers at the BP86/TZP level





**Figure S2.** Partial Density of State (PDOS) of Series **a** and **c** Compounds

**Table S1.** SAOP/TZP Calculated Excited State Transition Energy ( $\Delta E_{ge}$ , eV), Oscillator Strengths ( $f_{eg}$ ), and Major Assignment of Optical Transitions for Series **a** and **c**

Systems	$E_{ge}$	$f_{eg}$	Major transition
<b>1a</b>	2.693	0.024	409a'' $\rightarrow$ 410a'' 56.03%
			473a' $\rightarrow$ 474a' 38.81%
<b>1c</b>	2.422	0.021	470a' $\rightarrow$ 471a' 47.70%
			405a' $\rightarrow$ 406a' 44.04%
<b>2a</b>	2.607	0.007	282a'' $\rightarrow$ 292a'' 61.56%
			351a' $\rightarrow$ 353a' 70.84%
<b>2c</b>	2.389	0.010	348a' $\rightarrow$ 350a' 94.05%
<b>3a</b>	3.308	0.009	421a'' $\rightarrow$ 422a'' 63.92%
			486a' $\rightarrow$ 490a' 12.27%
<b>3c</b>	3.238	0.004	409a'' $\rightarrow$ 418a'' 56.01%
			412a'' $\rightarrow$ 418a'' 35.85%
<b>4a</b>	2.300	0.003	298a'' $\rightarrow$ 304a'' 76.01%
			296a'' $\rightarrow$ 304a'' 21.96%
	2.372	0.003	365a' $\rightarrow$ 367a' 63.22%
			296a'' $\rightarrow$ 304a'' 15.81%
<b>4c</b>	2.542	0.006	302a'' $\rightarrow$ 305a'' 9.46%
			357a'' $\rightarrow$ 300a'' 77.60%