

Electronic Supplementary Information

Comprehensive Study of the Red Persistent Luminescence Mechanism of $\text{Y}_2\text{O}_2\text{S}$:

Eu, Ti, Mg

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A. The electronic structures of Mg, Zr or Si doped $\text{Y}_2\text{O}_2\text{S}$

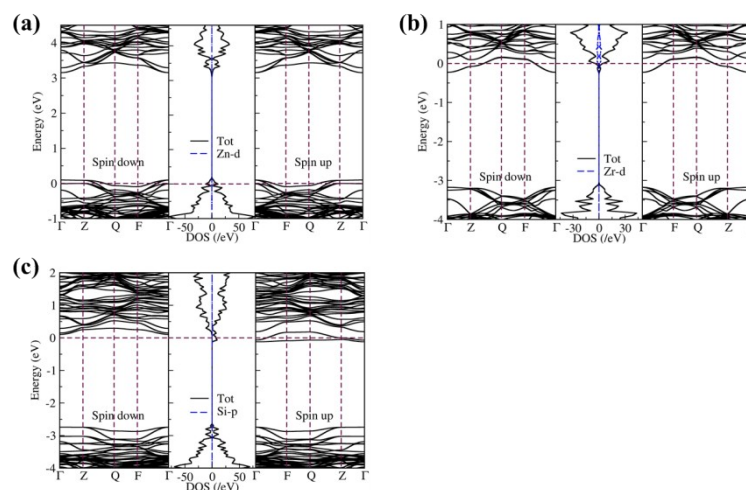


Figure S1 Computed band structures, total and partial density of states (DOS and PDOS) of $\text{Y}_2\text{O}_2\text{S}$ with (a) Mg_Y , (b) Zr_Y and (c) Si_Y . The Fermi level is set to be 0 eV.

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