

**Er³⁺-activated NaLaMgWO₆ double perovskite phosphor and its
bifunctional application in solid-state lighting and non-contact
optical thermometry**

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Table S1. The lattice parameters of the NaLaMgWO₆ doped with different Er³⁺ ions concentrations.

Concentration (%)	a (Å)	b (Å)	c (Å)	β (degree)	V(Å ³)
0	5.5204	5.5242	7.8876	90.0464	240.5386
0.5	5.5221	5.5239	7.8857	90.0313	240.5374
1	5.5207	5.5233	7.8886	90.0458	240.5404
2	5.5192	5.5247	7.8879	90.0273	240.5147
3	5.5205	5.5237	7.8874	90.0382	240.5176
4	5.5184	5.5212	7.8856	90.0187	240.2597
5	5.5177	5.5251	7.8865	90.0347	240.4251

Figure S1. The distribution of ground electrons in the NaLaMgWO₆ host.

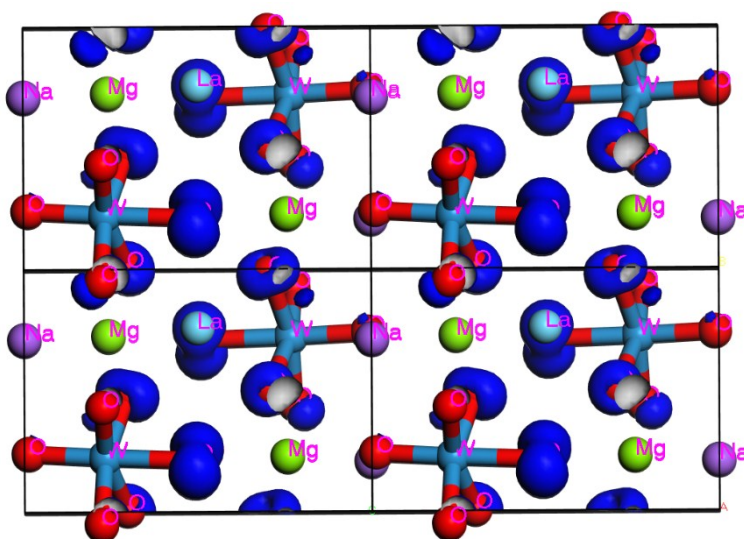


Figure S2. Vibrational vector of atoms in NaLaMgWO₆ host.

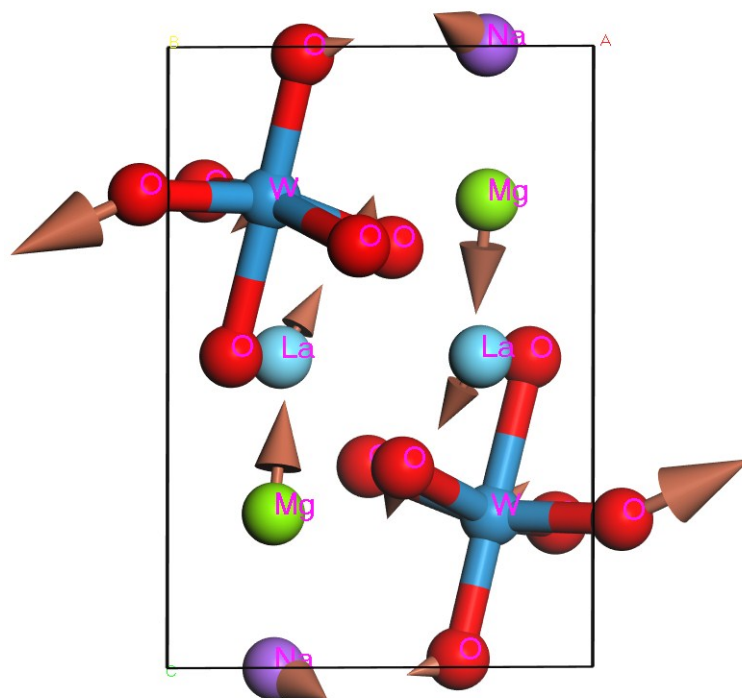


Figure S3. Raman spectra of NaLaMgWO₆ phosphor.

