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Supplementary Information

Mechanism Analysis of a Narrow-band Ultra-bright Green Phosphor with its Prospect in White Light-emitting Diodes and Field Emission Displays

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Table S1 The atomic coordinates data of $[Mg_{1.25}Si_{1.25}Al_{2.5}]O_3N_3$: $0.03Ce^{3+}$, $0.02Tb^{3+}$

Atom	X/a	Y/b	Z/c	Wyck.	Site	S.O.F.
Al1	0	0	0	3a	-3m	0.5
Mg1	0	0	0	3a	-3m	0.25
Si1	0	0	0	3a	-3m	0.25
O1	0	0	0.0785	6c	3m	0.5
N1	0	0	0.0785	6c	3m	0.5
Al2a	0	0	0.1279	6c	3m	0.333
Mg2a	0	0	0.1279	6c	3m	0.167
Si2a	0	0	0.1279	6c	3m	0.167
O2	0	0	0.1950	6c	3m	0.5
N2	0	0	0.1950	6c	3m	0.5
Al2b	0	0	0.1408	6c	3m	0.167
Mg2b	0	0	0.1408	6c	3m	0.083
Si32b	0	0	0.1408	6c	3m	0.083
Al3	0	0	0.2663	6c	3m	0.5
Mg3	0	0	0.2663	6c	3m	0.25
Si3	0	0	0.2663	6c	3m	0.25
O3	0	0	0.3086	6c	3m	0.5
N3	0	0	0.3086	6c	3m	0.5