

Supporting information

Controlled synthesis of 3D flower-like MgWO₄: Eu³⁺ hierarchical structures and fluorescence enhancement through introducing carbon dots

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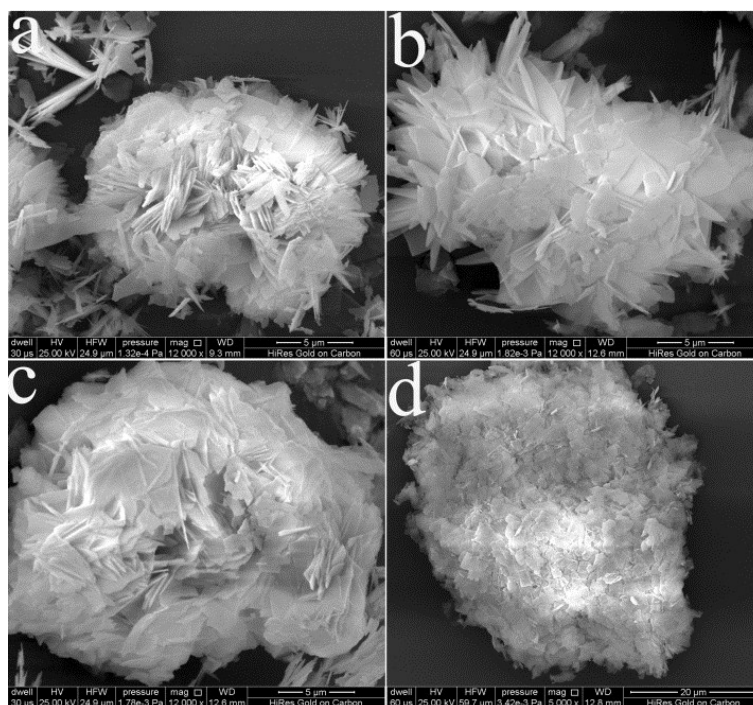


Fig. S1 SEM images of $\text{MgWO}_4: x\text{Eu}^{3+}$ samples with different doping concentrations: $x =$ (a) 8%, (b) 10%, (c) 12% and (d) 16%.

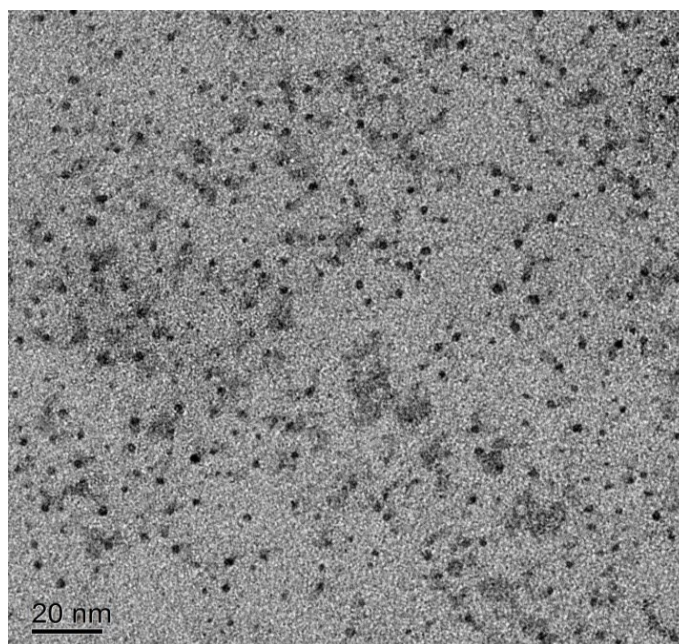


Fig. S2 TEM image of CDs.

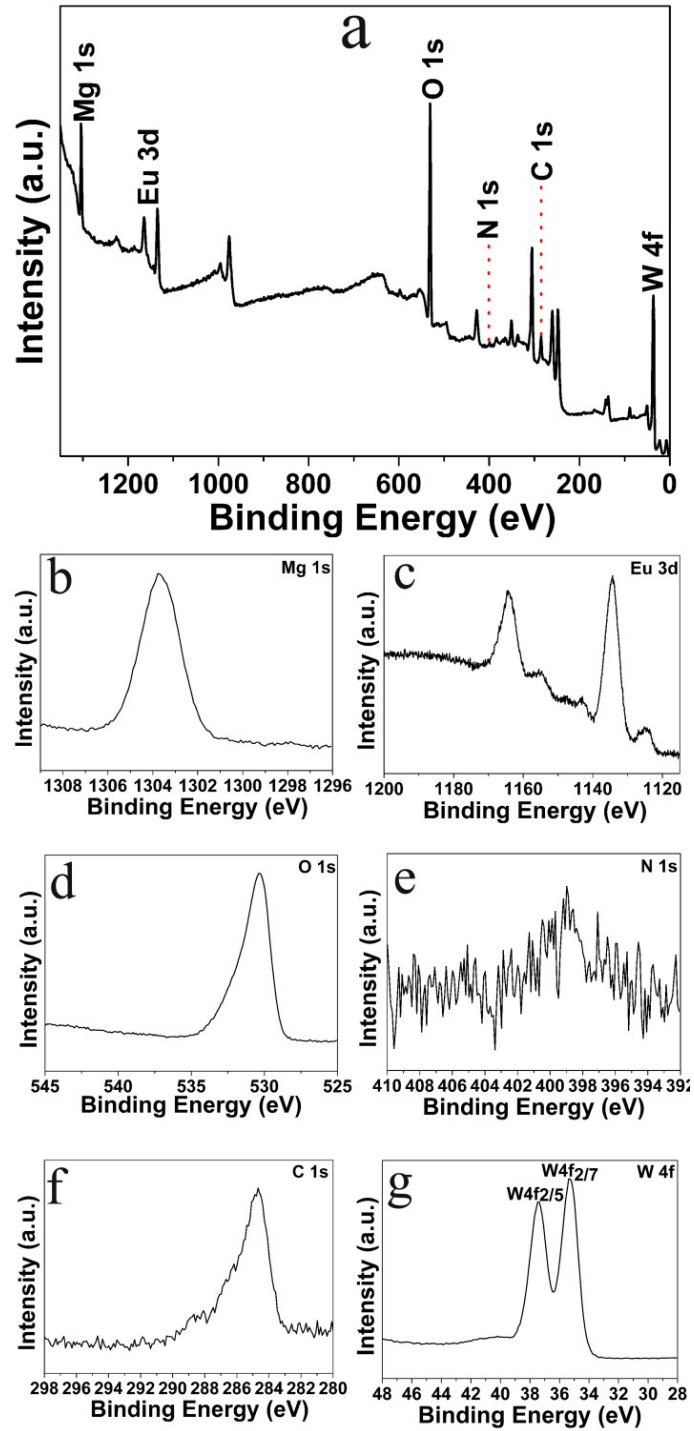


Fig. S3 (a) XPS spectrum of 3D flower-like CDs/MgWO₄: 5%Eu³⁺ composites, and the corresponding high-resolution XPS spectra of (b) Mg 1s, (c) Eu 3d, (d) O 1s, (e) N 1s, (f) C 1s and (g) W 4f.



Fig. S4 The luminescence photograph of CDs under the excitation of 440 nm.