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Table S1 EDX analysis of Eu $^{3+}$ / DUT-52-COOH.

| Element | Wt% | Wt% Sigma | At% |
|---------|-------|-----------|-------|
| СК | 52.56 | 0.40 | 73.15 |
| N K | 0.00 | 0.70 | 0.00 |
| ОК | 21.15 | 0.29 | 22.10 |
| Zr L | 25.32 | 0.29 | 4.64 |
| Eu L | 0.98 | 0.20 | 0.11 |

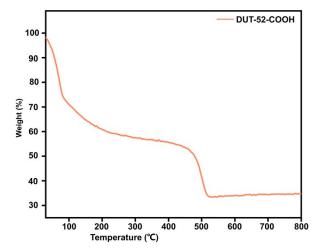


Figure S5. TGA curves of the DUT-52-COOH.

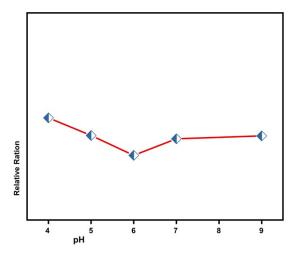


Figure S6. The relative luminescence ratio of Eu³⁺/DUT-52-COOH composite dispersed in different pH.

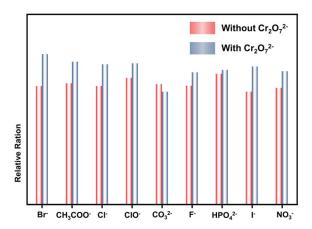


Figure S7. The relative luminescence ratio of Eu³⁺/DUT-52-COOH composite with and without $Cr_2O_7^{2-}$ in the presence of other anions in aqueous solutions under excitation wavelength at 371 nm.