

Supporting Information

Facile Synthesis of Boron and Nitride Doped MoS₂ Nanosheets as Fluorescence Probes for Ultrafast, Sensitive, and Label-free Detection of Hg²⁺

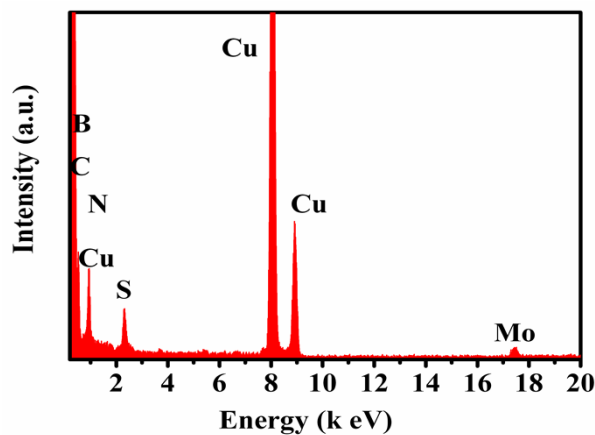


Fig. S1 EDS of B,N-MoS₂.

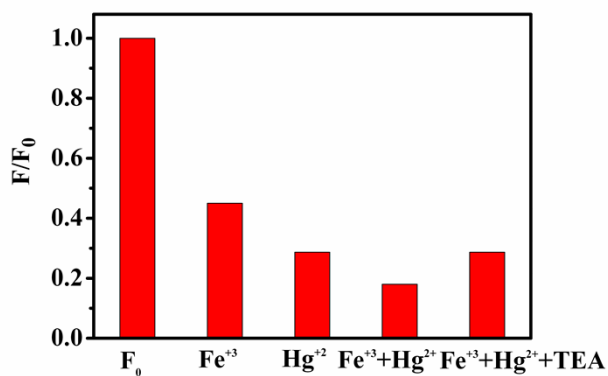


Fig. S2 PL intensities of B,N-MoS₂ dispersion under various conditions in aqueous solution (excitation at 280 nm; [Fe³⁺] = 25 μM; [Hg²⁺] = 2 μM, [TEA] = 1000 μM).

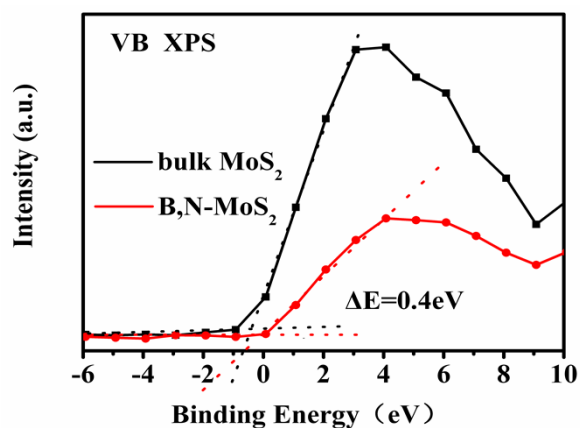


Fig. S3 VB XPS analysis of B,N-MoS₂.