

Supplementary Materials:



Fig. S1 The synthetic scheme of BBV.

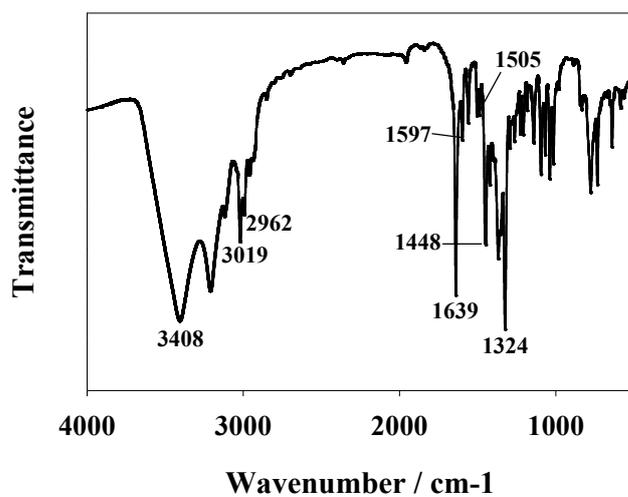


Fig. S2. FT-IR spectra of BBV.

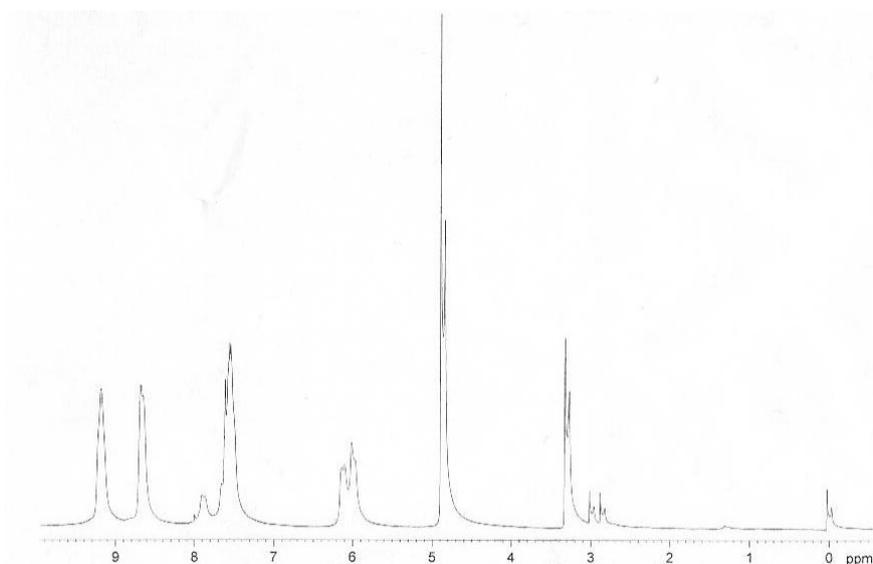


Fig. S3. ¹H NMR spectra of BBV.

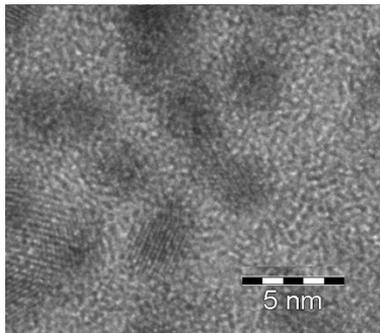


Fig. S4 TEM image of MPA-capped Mn-doped ZnS QDs.

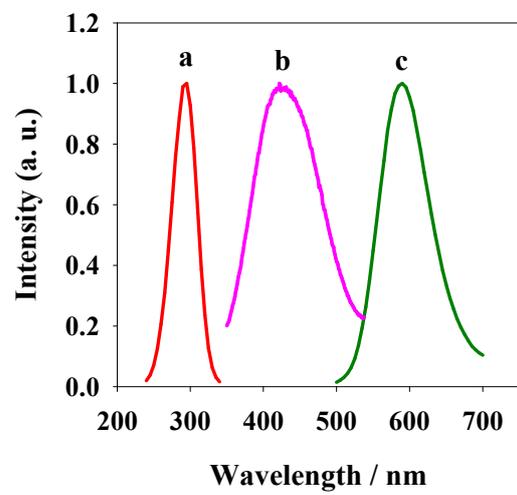


Fig. S5 The excitation (curves a), fluorescent (curves b) and phosphorescence emission (curves c) spectra of Mn-doped ZnS QDs.

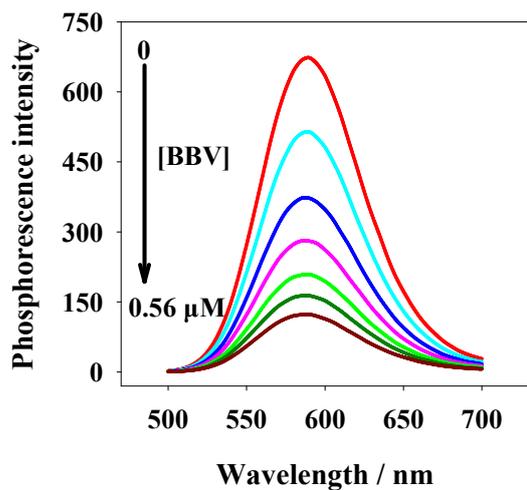


Fig. S6 BBV-concentration-dependent phosphorescence emission of 20 mg L⁻¹ MPA-capped Mn-doped ZnS QDs.

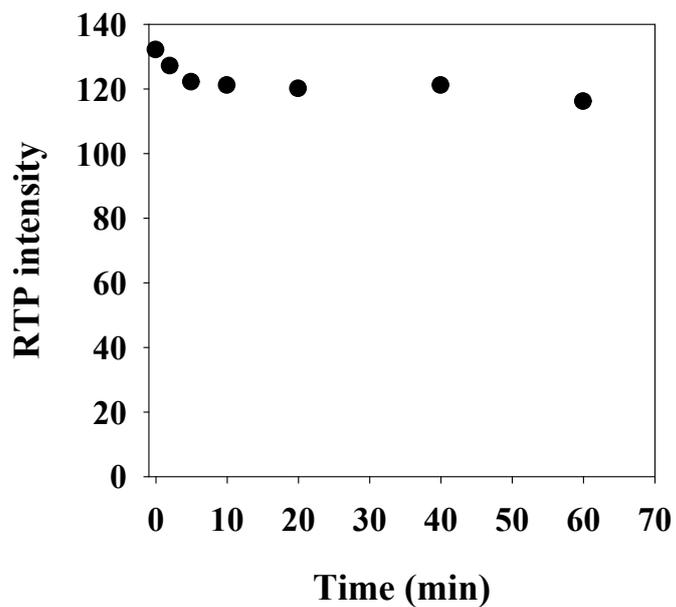


Fig. S7. Time-dependent RTP emission of the Mn-doped ZnS QDs/BBV. Buffer, 10 mM PBS (pH 7.4); MPA-capped Mn-doped ZnS QDs, 20 mg L⁻¹; BBV, 0.56 μM.