Supporting Information

Synthesis of PbS/PbI_2 Nanocomposites in Mixed Solvent and Their Composition-Dependent Electrogenerated Chemiluminescence Performance

Suli Liu, Long Zhang, Yanrong Li, Min Han, Zhihui Dai,*and Jianchun Bao*

Jiangsu Key Laboratory of Biofunctional Materials, School of Chemistry and Materials Science, Nanjing Normal University, Nanjing 210023, P. R. China.

*E-mail: daizhihuii@njnu.edu.cn; baojianchun@njnu.edu.cn

Table S1. Different volume ratios of acetone to water used to synthesize samples

$V_{acetone}$:V_{water}	$V_{acetone}$(mL)	V_{TAA}(mL)	C_{TAA}(M)	V_{NaOH}(mL)	C_{NaOH}(M)
2:1	8	3	0.05	1	0.625
5:1	10	1.5	0.1	0.5	1.25
1:1	6	5	0.03	1	0.625

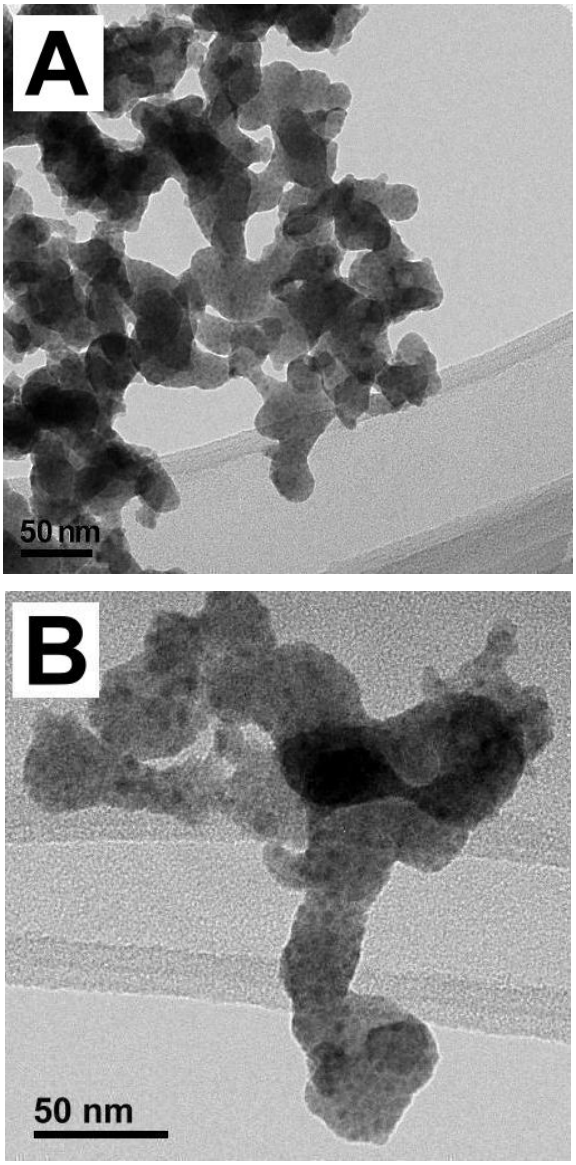

Figure S1. Lower (A) and higher (B) magnification TEM images of the PbS/PbI_2 nanocomposites.

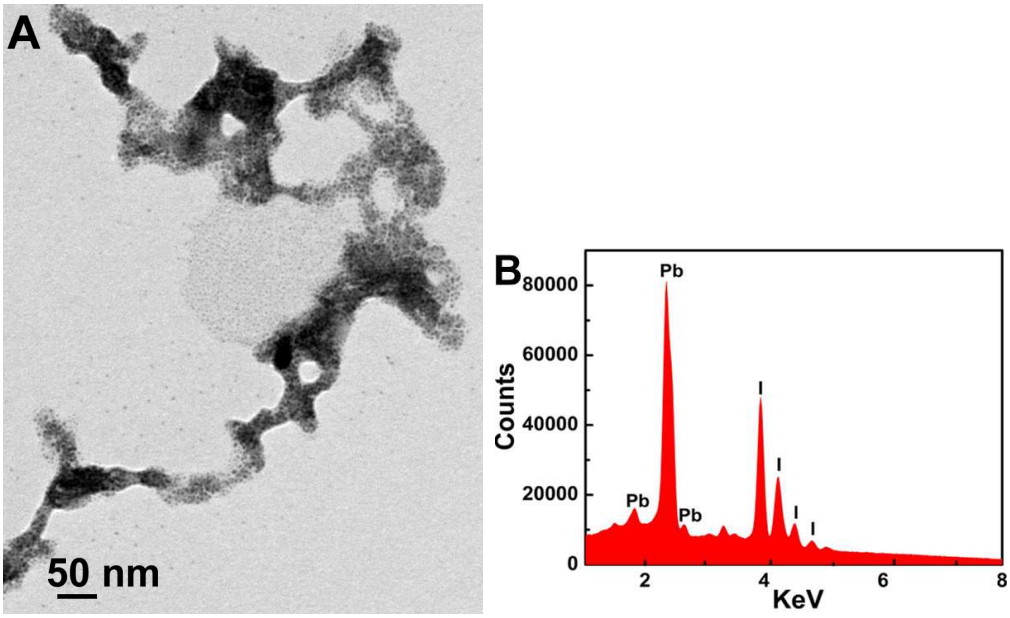

Figure S2. TEM image (A) and EDS spectrum (B) of PbI_2 formed at the earlier stage by the addition of water to an acetone solution of $K[PbI_3]$/tartaric acid.

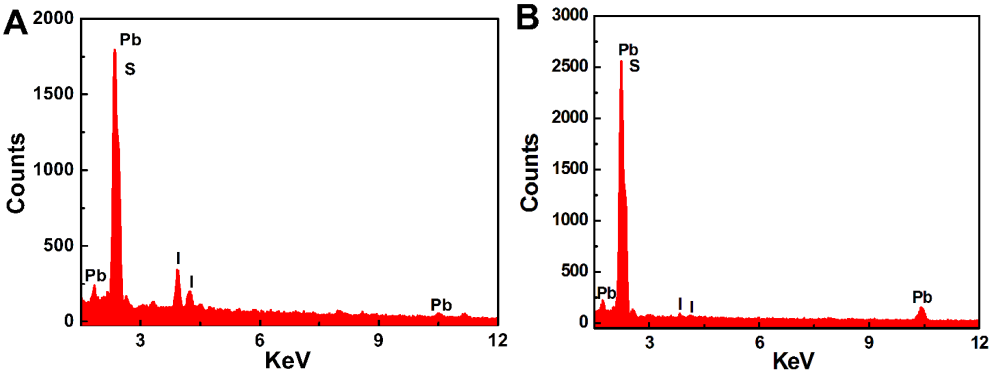

Figure S3. EDS spectra of PbS/PbI_2 nanocomposites obtained under the volume ratios of acetone/water: 5:1(A) and 1:1 (B) and keeping the other conditions constant, respectively.