Supplementary Information

Impacts of ionic liquid capping on morphology and photocatalytic performance of SbPO₄ crystals

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Figure S1. XRD patterns of SbPO₄ samples prepared by hydrothermal method with different Sb/P mole ratios.



Figure S2. XRD patterns of SbPO₄ samples obtained at different hydrothermal time.



Figure S3. SEM images of the SbPO₄ synthesized with different Sb/P mole ratios: (a) S-M-1, (b)

S-M-2.



Figure S4.SEM images of the SbPO₄ synthesized with different reaction time: (a,b) S-T-1, (c)S-P-2, (d) S-T-2.



Figure S5. SEM images of the synthesized SbPO₄: (a) S-O-1, (b) S-O-2, (c) S-O-3.



Figure S6. UV-Vis diffuse reflection spectra of SbPO₄ at different Sb/P mole ratios and S-P-2.



Figure S7. UV-Vis diffuse reflection spectra of SbPO₄ at different reaction time and S-P-2.



Figure S8. The degradation efficiency of S-M-1, S-P-2, S-M-2,(a) RhB, (b) MB



Figure S9. The degradation efficiency of S-T-1, S-P-2, S-T-2,(a) RhB, (b) MB



Figure S10. UV-Vis diffuse reflection spectra of pure ILs.



Figure S11. XRD of the SbPO₄ fabricated at different reaction time: 4, 8, 12, 24.



Figure S12. The low SEM of S-P-2.



Figure S13. The pore diameter disstributions images of samples