# More Efficient Prussian Blue Nanoparticles for an Improved Caesium Decontamination from Aqueous Solutions and Biological Fluids

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## SUPPORTING INFORMATION

**Table S1.** Elemental C, H, N content of PB_Com and PB_Syn.

| Content (wt.%) | PB_Com | PB_Syn |
|---|---|---|
| C | 17.57 | 17.82 |
| H | 2.91 | 3.31 |

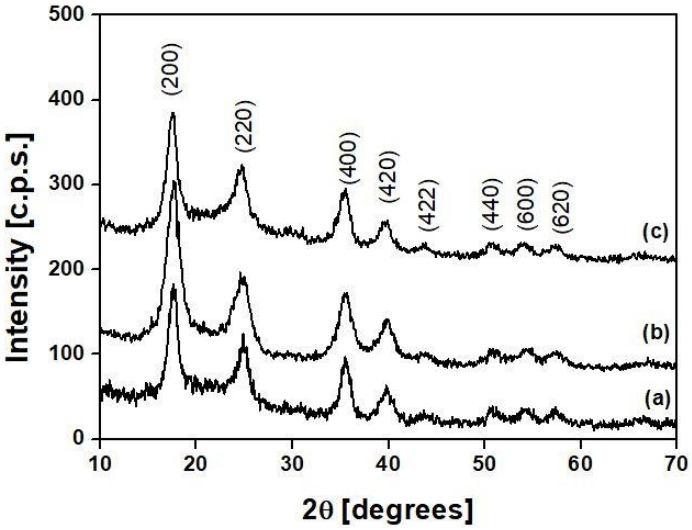


**Figure S1.** XRD patterns of (**a**) PB_Com (**b**) PB_Syn and (**c**) PB_Acid.

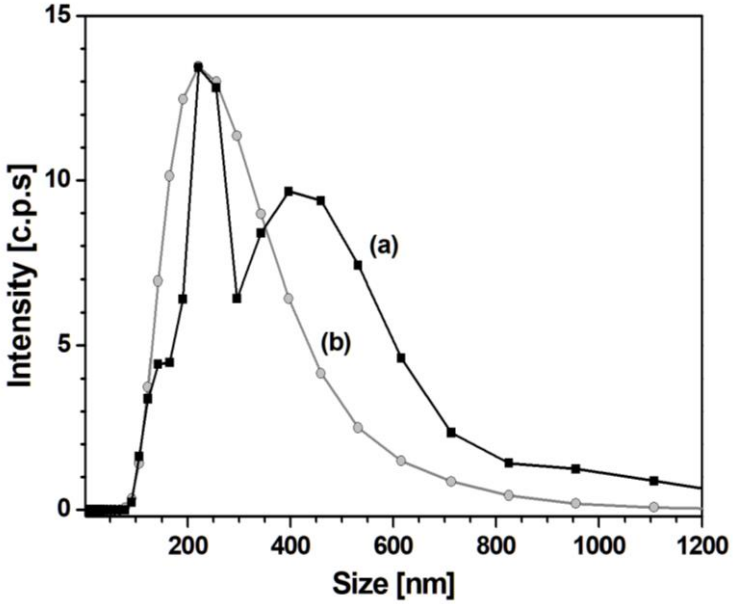


**Figure S2.** Particle size distribution of PB_Com (**a**) and PB_Syn (**b**) obtained by DLS analysis.

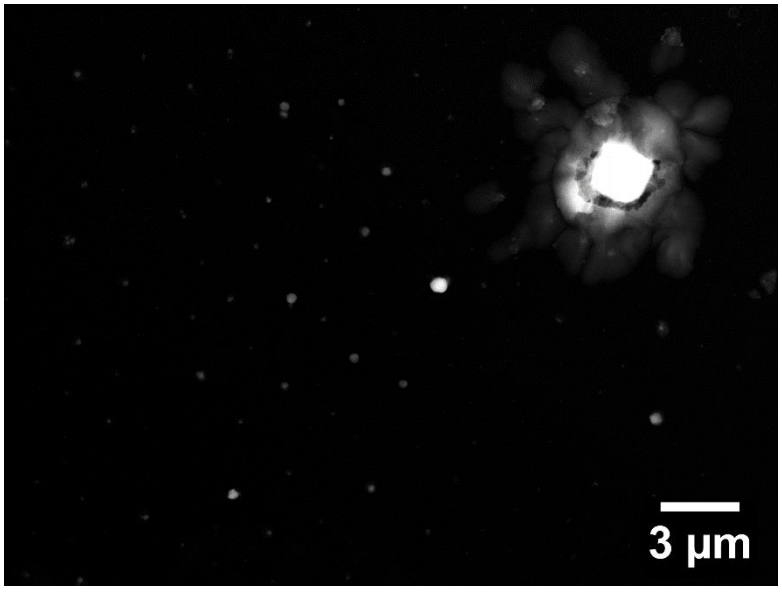


**Figure S3**. HAADF-STEM image of segregated KCl grains in PB_Com sample.

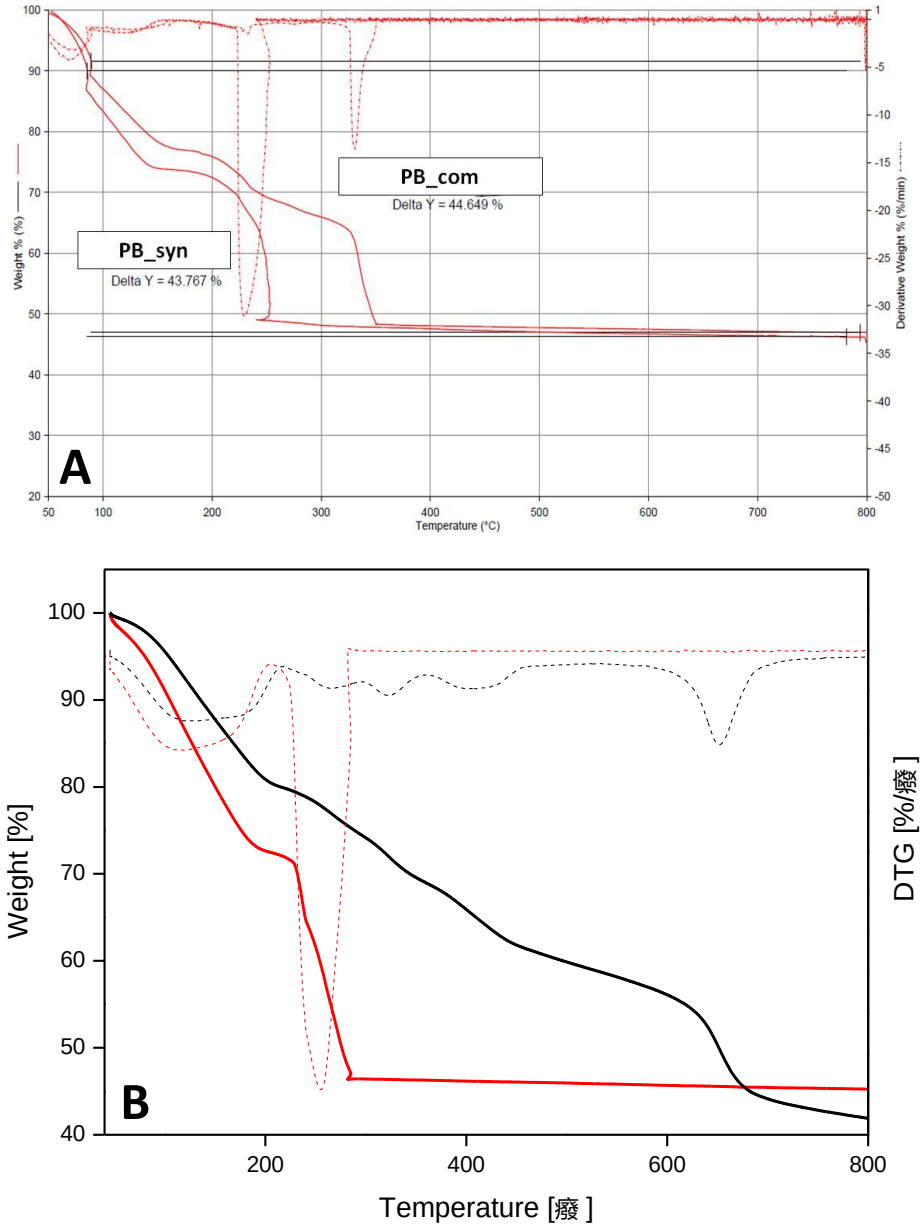


**Figure S4.** Frame A: TGA profile of PB_Com and PB_Syn samples. Ultrapure air flow (20 mL $min^{-1}$); temperature programme from 50 ℃ to 800 ℃, 5 ℃ $min^{-1}$; 15 mg sample. Frame: TGA profile of PB_Com (black) and PB_Syn (red) samples. First derivative profile, DTGA, as dashed curves. Ultrapure argon flow (20 mL $min^{-1}$); temperature programme from 50 ℃ to 850 ℃, 10 ℃ $min^{-1}$; 10 mg sample.

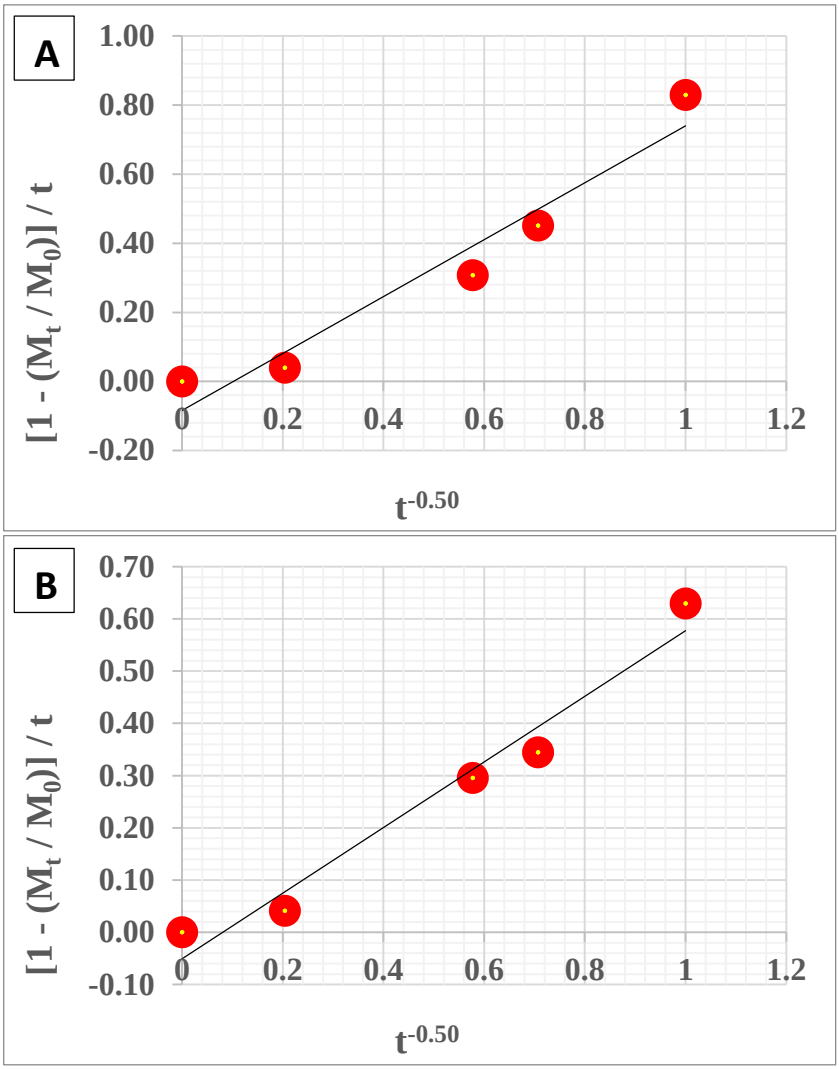


**Figure S5.** Plots of the kinetic parabolic model for the Cs+ uptake for PB_Syn (**A**) and PB_Com (**B**) samples, respectively.