

Supporting information

Morphology directing synthesis of 1-pyrene carboxaldehyde microstructures and their photo physical properties

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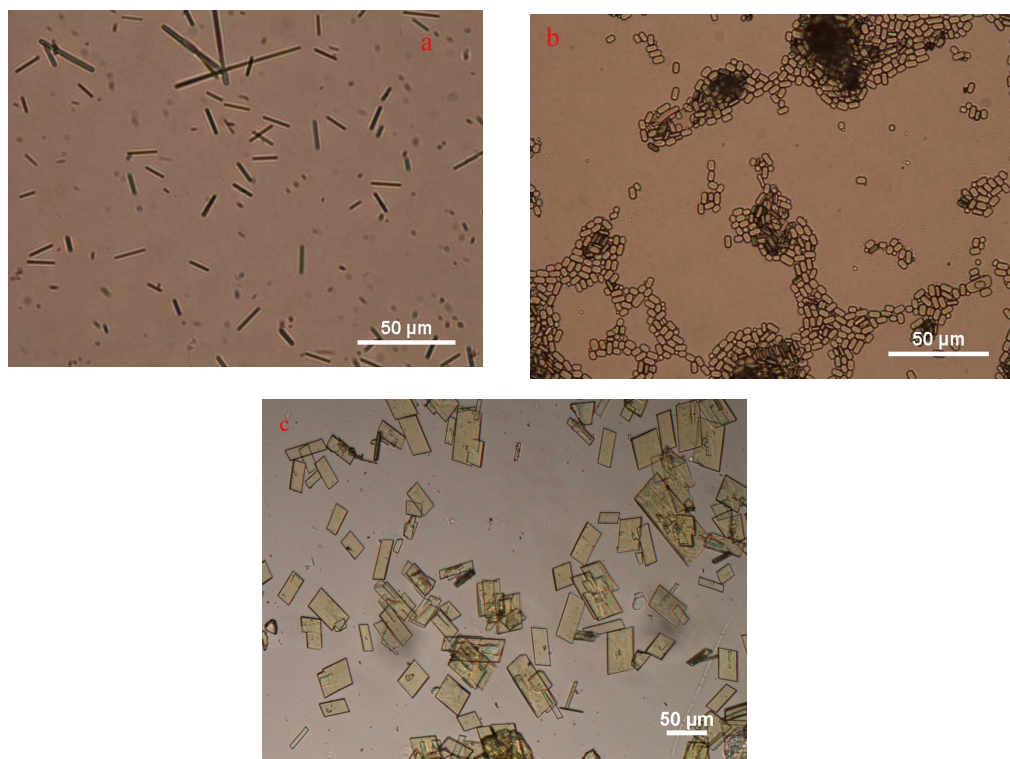


Figure S1: Optical microscopic images of 1-PyCHO microparticles (a) sample-a, (b) sample-b and (c) sample-c.

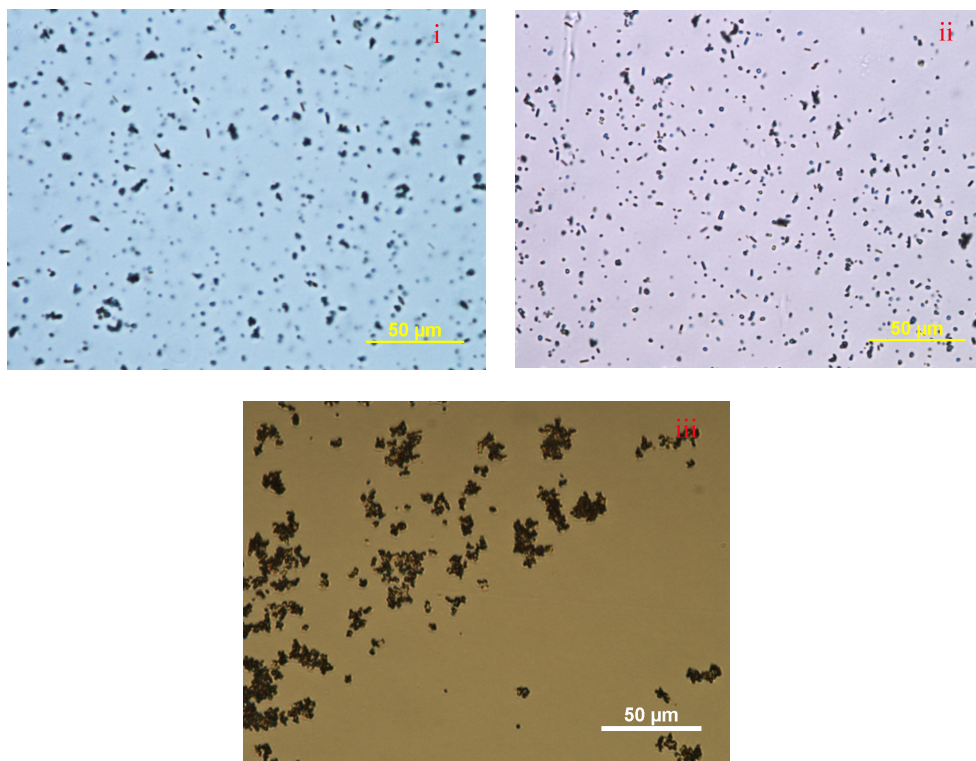


Figure S2: Optical microscopic images of pyrene microstructures (i) sample-1, (ii) sample-2 and (iii) sample-3.

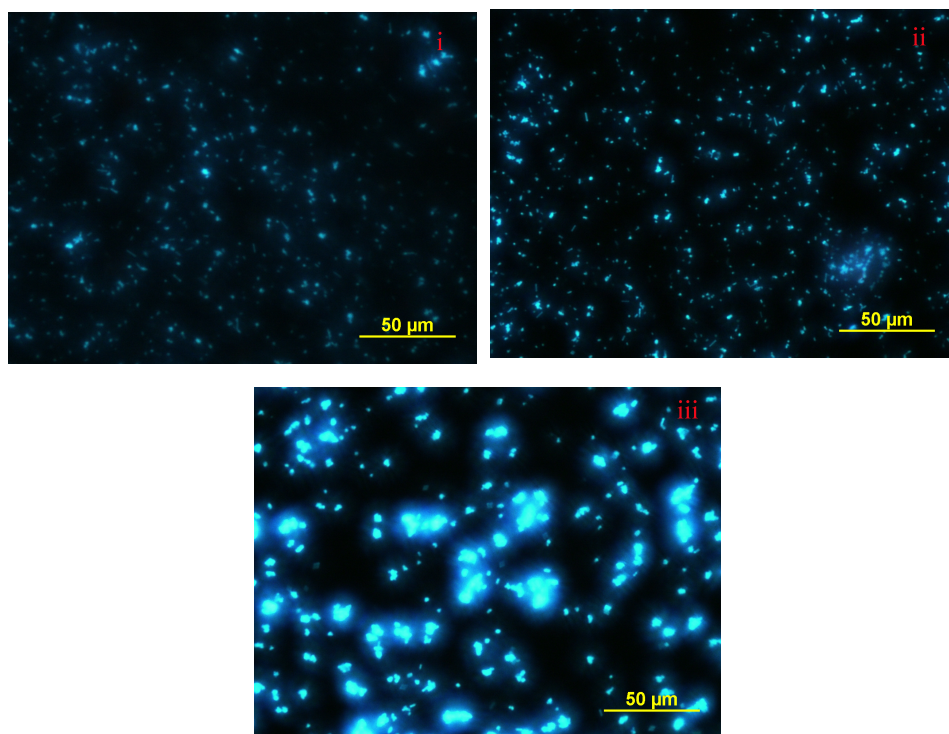


Figure S3: Optical fluorescence microscopic images of pyrene microstructures with blue excitation filter (i) sample-1, (ii) sample-2 and (iii) sample-3.

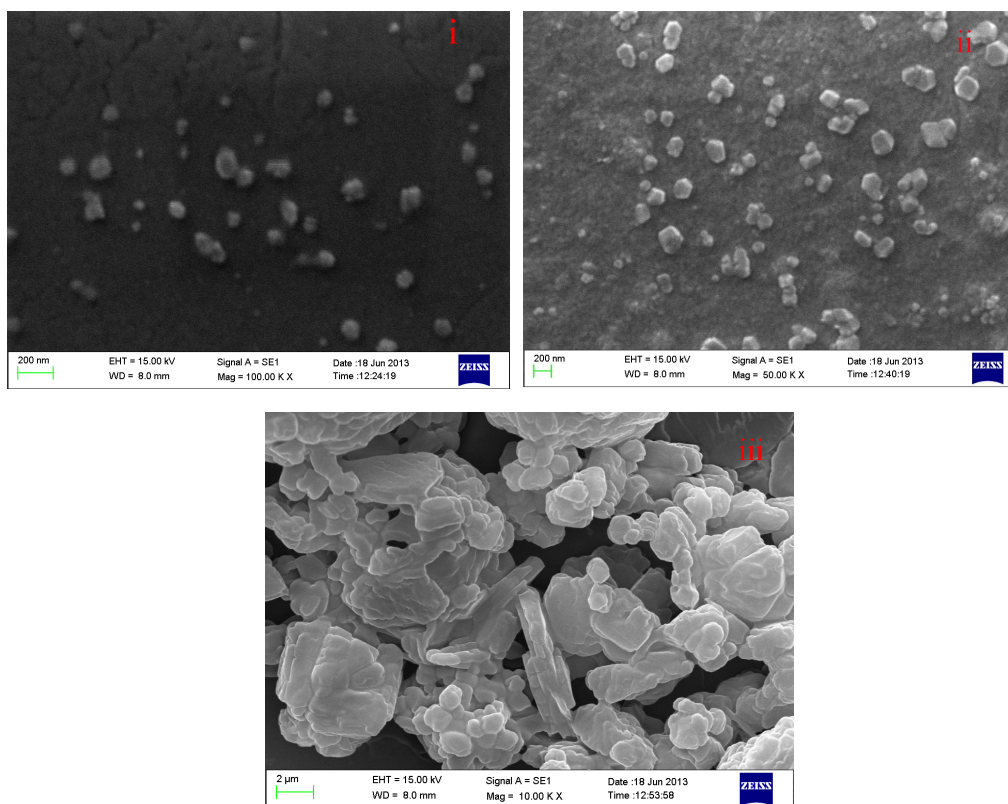


Figure S4: SEM images of pyrene microstructures (i) sample-1, (ii) sample-2 and (iii) sample-3.

Experimental

Synthesis of Pyrene microparticles

Sample-1: 0.1 mL of 0.1 M pyrene in EtOH was injected into 10 mL 0.01(M) SDS with rigorous stirring. After 5 min of stirring the solution was kept undisturbed overnight at room temperature before characterization. Concentrations of SDS and Pyrene in the resulting solution were 9.9mM and 0.99mM respectively.

Sample-2: 0.5 mL of 0.1 M pyrene in EtOH was injected into 10 mL 0.01(M) SDS with a rigorous stirring. After 5 min stirring the solution was aged overnight at room temperature before characterization. Concentrations of SDS and Pyrene in the resulting solution were 9.9mM and 4.70 mM respectively.

Sample-3: 0.5 mL of 0.1 M pyrene in EtOH was added to 10 mL 0.05(M) SDS solution with rigorous stirring for 5 min. The as-prepared solution was left standing overnight before characterization. Concentrations of SDS and Pyrene in the resulting solution were 47.60 mM and 4.70 mM respectively.