

Electronic Supplementary Information (ESI)

Pickering high internal phase emulsion-based hydroxyapatite/poly(ϵ -caprolactone) nanocomposite scaffolds

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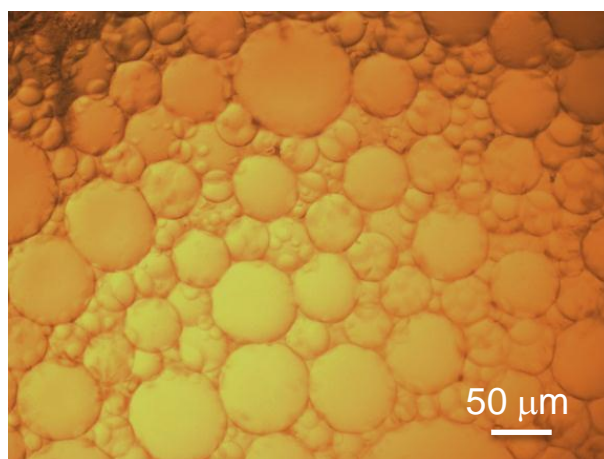


Fig. S1 Optical microscope image of a typical stable Pickering HIPE H₃P₅-80.

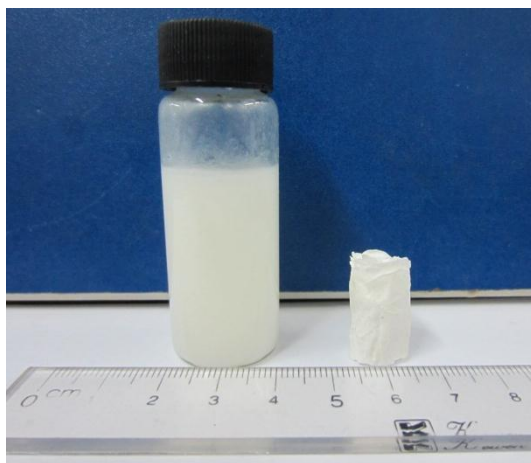


Fig. S2 Digital photographs of typical sample H₅P₅-80 before and after air drying: left, Pickering HIPE and right, porous scaffold.

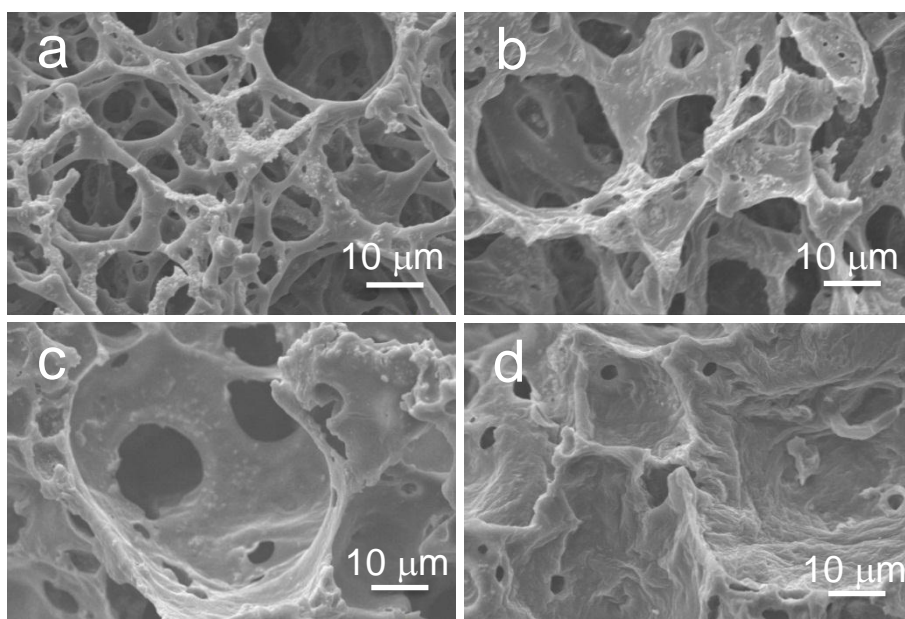


Fig. S3 SEM micrographs of porous scaffolds prepared from Pickering HIPE (a) $H_5P_{2.5-80}$, (b) H_5P_{5-80} , (c) $H_5P_{7.5-80}$ and (d) H_5P_{10-80} with the PCL concentrations of 2.5, 5, 7.5 and 10 w/v%, respectively.

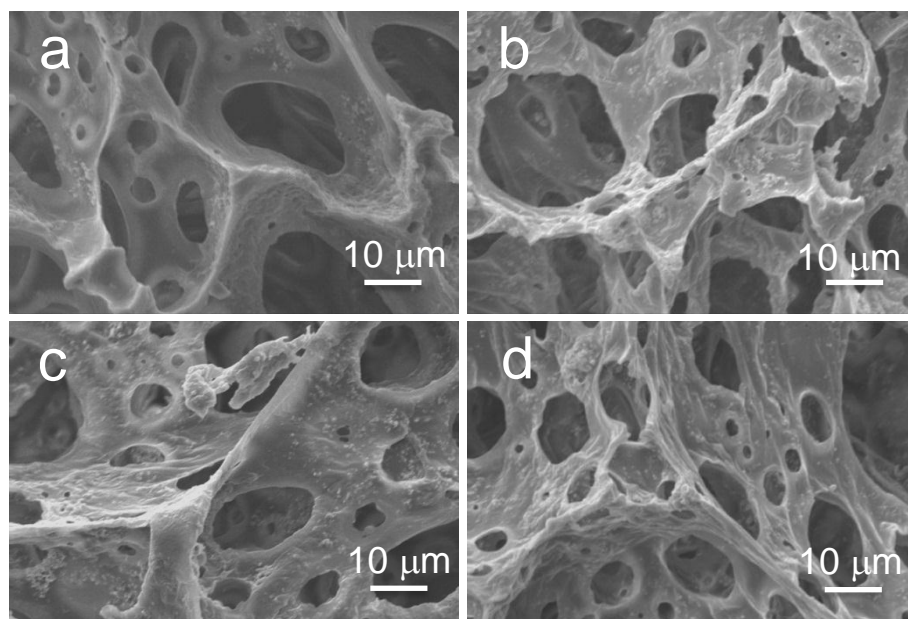


Fig. S4. SEM micrographs of porous scaffolds prepared from Pickering HIPE (a) H₅P₅-75, (b) H₅P₅-80, (c) H₅P₅-85 and (d) H₅P₅-90 with the internal phase volume fractions of 75, 80, 85 and 90 vol%, respectively.

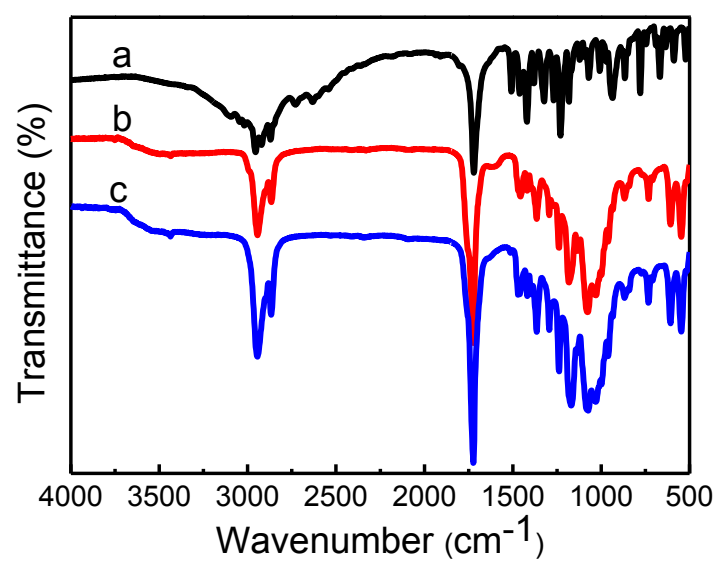


Fig. S5. FTIR spectra of (a) IBU, (b) scaffold H₅P₅-80 and (c) IBU-loaded scaffold H₅P₅-80.

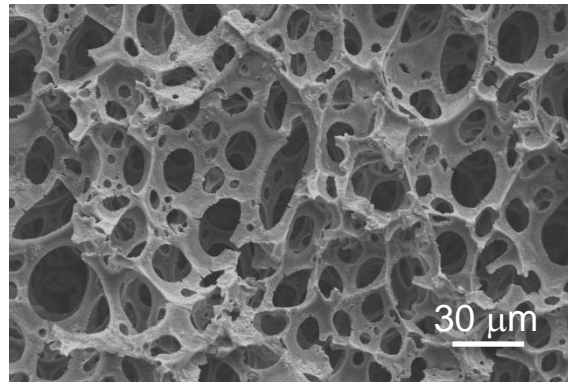


Fig. S6 SEM image of IBU-loaded scaffold H₅P₅-80.

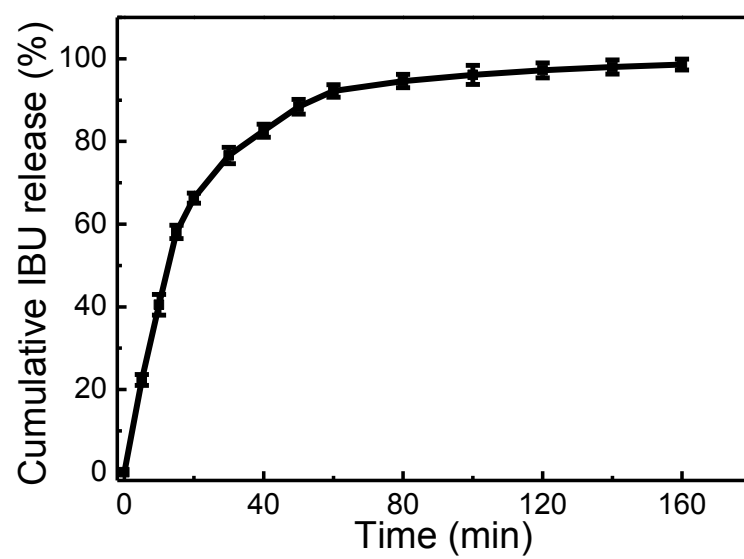


Fig. S7 In vitro release curve of free IBU in PBS (pH 7.4) at 37 °C.