

Electronic Supplementary Information

Bead-type Polystyrene/Nano-CaCO₃ (PS/nCaCO₃) composites: A high-performance adsorbent for the removal of interleukin-6

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Supporting figures and table

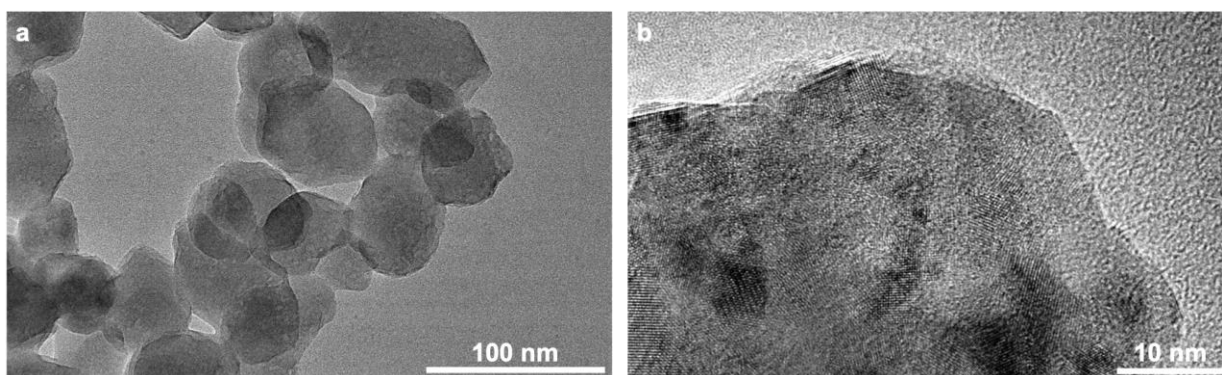


Fig. S1. TEM images of nCaCO₃ with different magnifications.

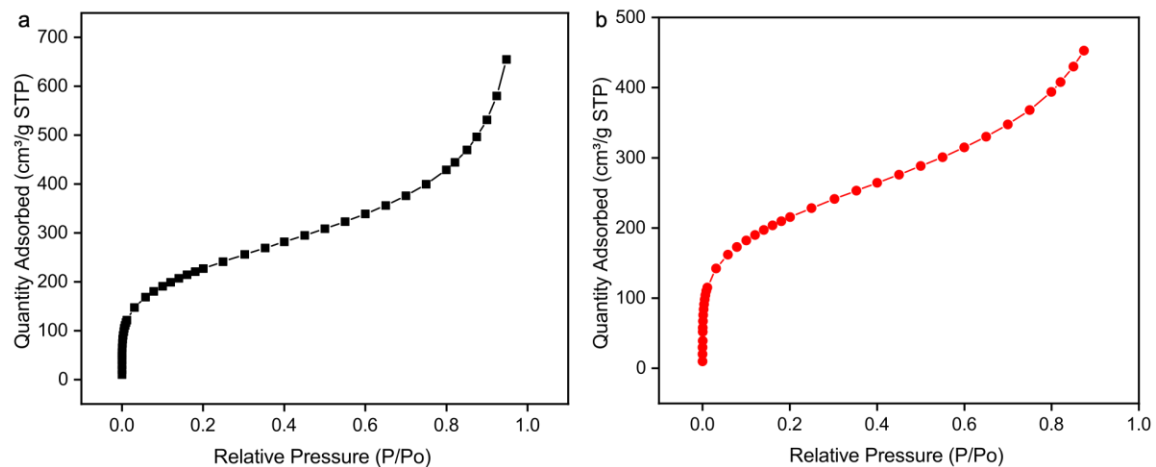


Fig. S2. t-Plots of N_2 adsorption isotherms for adsorbents: (a) PS/CaCO₃ and (b) PS.



Fig.S3. Photograph containing a few spheres for 2.5 wt% PS/nCaCO₃ by an optical microscope.

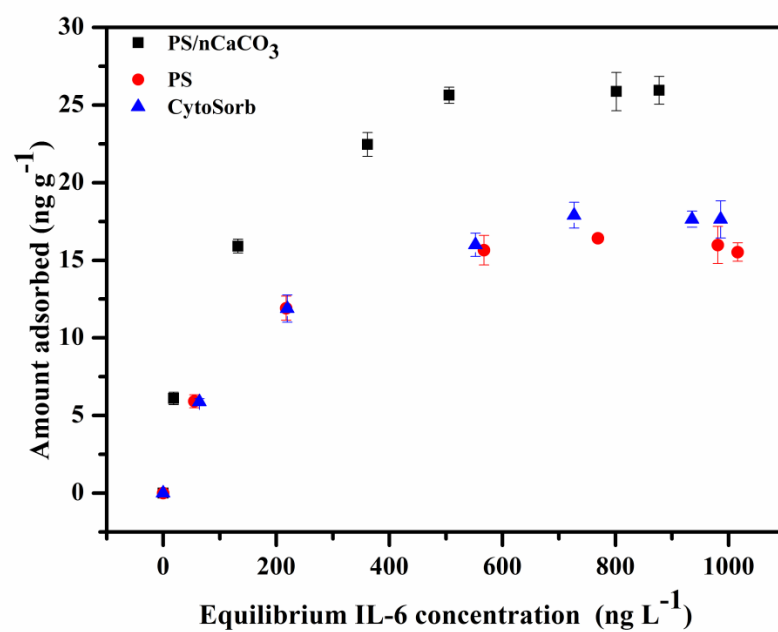


Fig. S4. Adsorption isotherms of IL-6 onto three adsorbents in plasma (T=37 °C, t=2 h, mean $\pm$ SD, n=3).

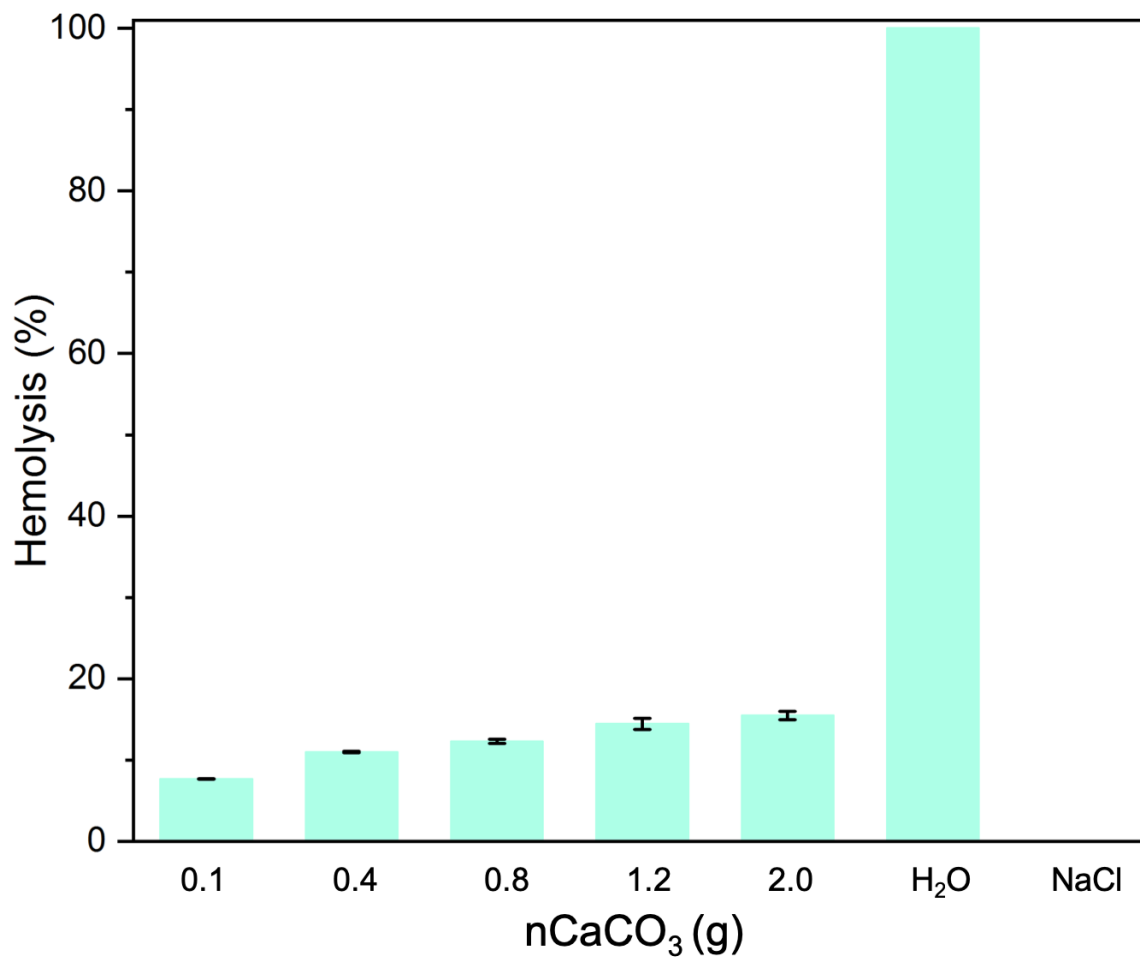


Fig. S5. Hemolysis assay for nCaCO₃ with different concentrations, where using NaCl as a negative control (first) and water as a positive control (second).

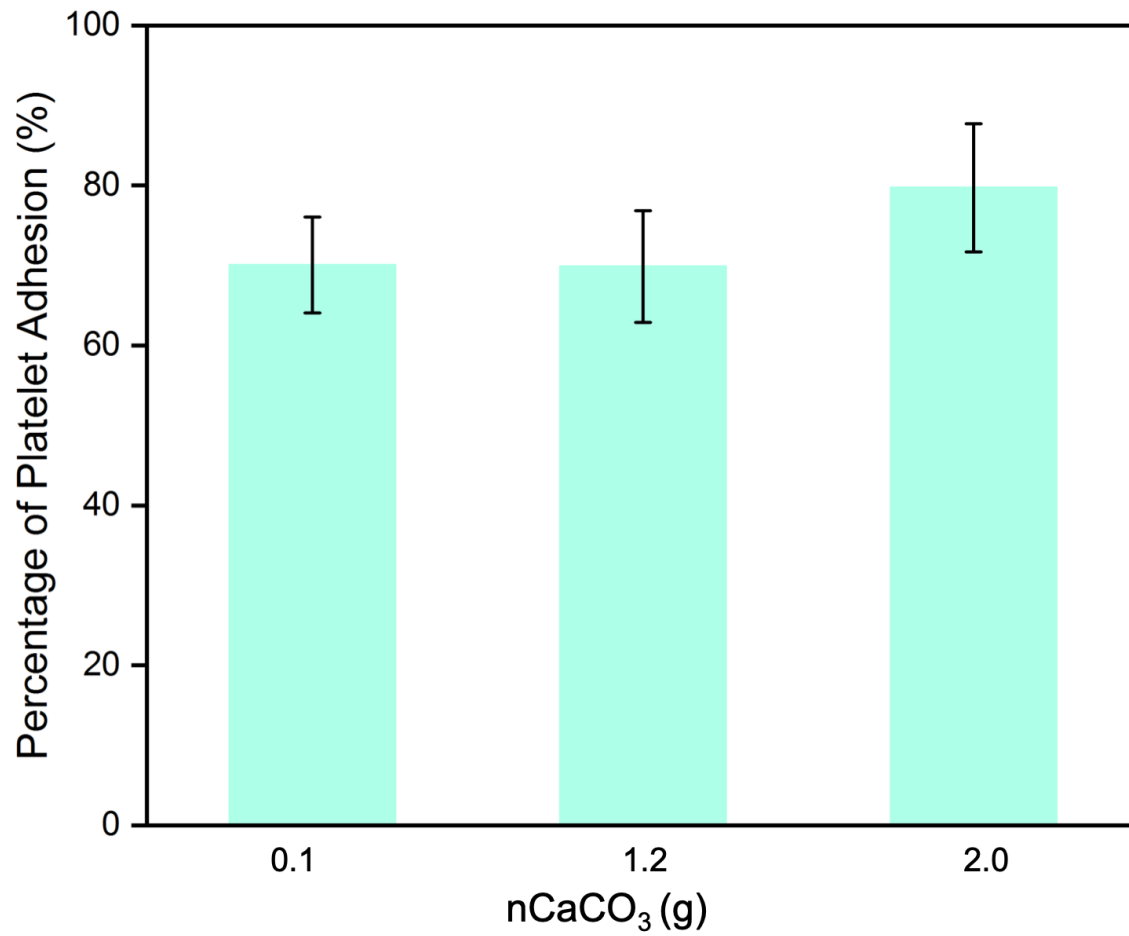


Fig. S6. Blood platelet adhesion assay for nCaCO₃ with different concentrations.



Fig. S7. Photograph of the dynamic model for hemoperfusion.

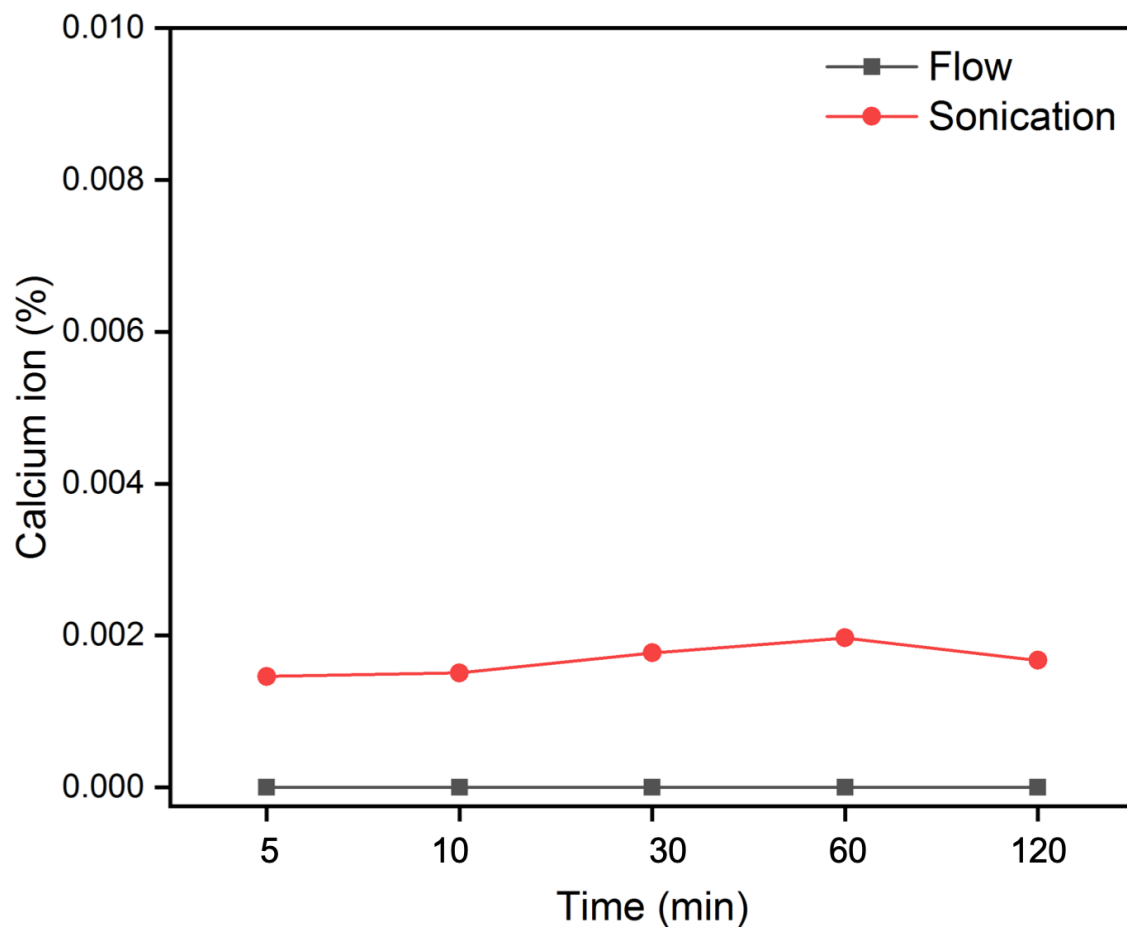


Fig. S8. The contents of Ca^{2+} vs time for PS/n CaCO_3 released in saline solution under flowing and sonication conditions.

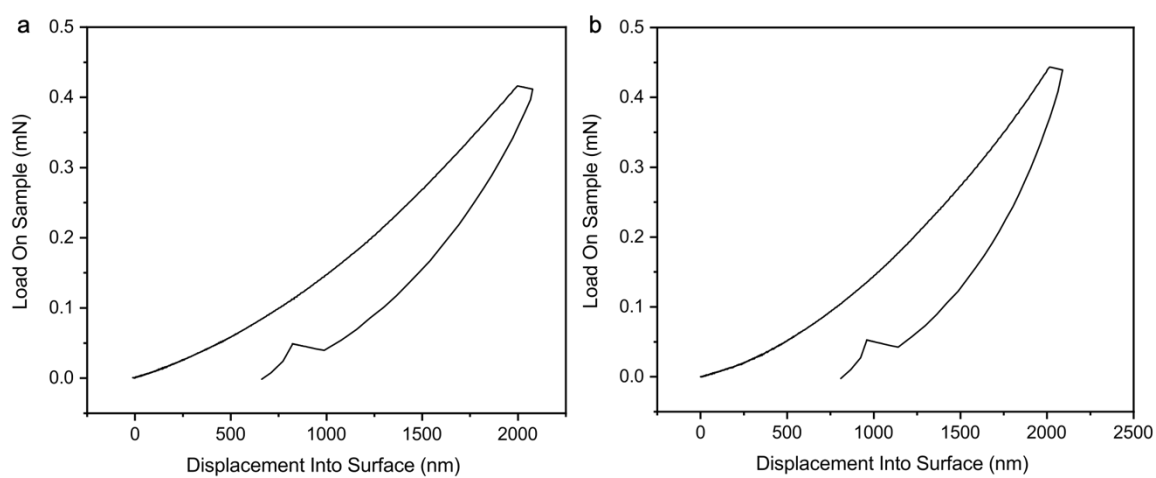


Fig. S9. The load–displacement curves of (a) PS/n CaCO_3 and (b) PS adsorbents.