

ELECTRONIC SUPPLEMENTARY INFORMATION

***In situ* Generation of H₂O₂ Using CaO₂ as Peroxide Storage Depot for Haloperoxidase Mimicry with Surface-Tailored Bi-doped Mesoporous CeO₂ Nanozymes**

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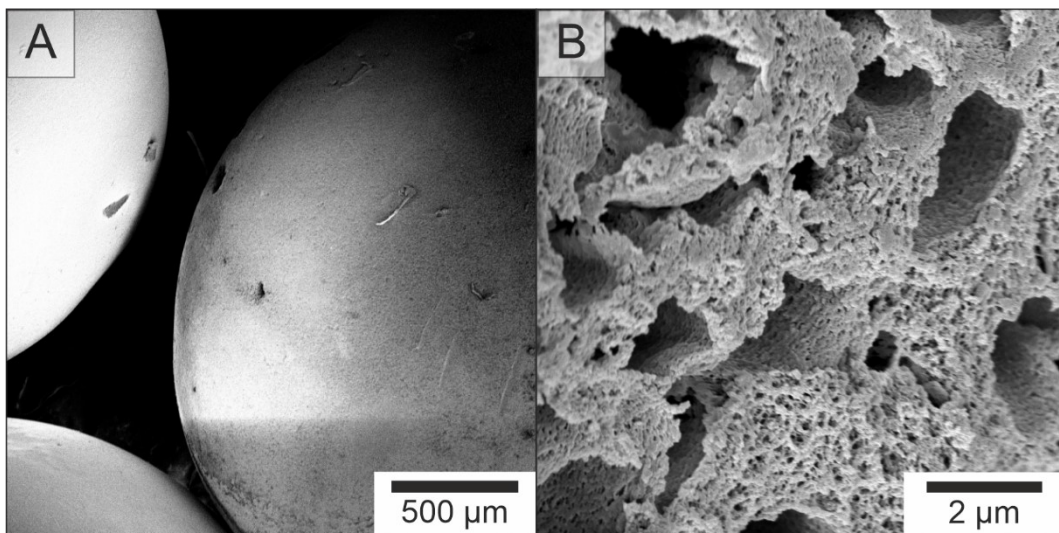


Fig. S1. SEM image of PES beads at different magnifications.

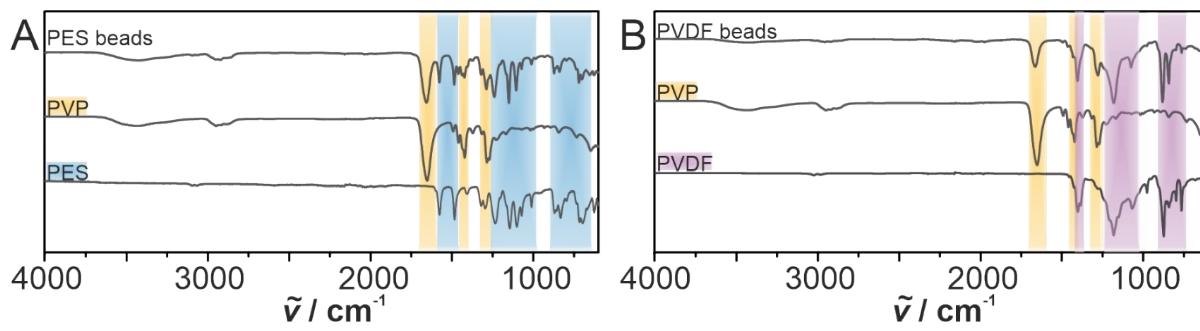


Fig. S2. IR spectra of the starting materials PES, PVDF and PVP and of PES/PVDF beads after coagulation.

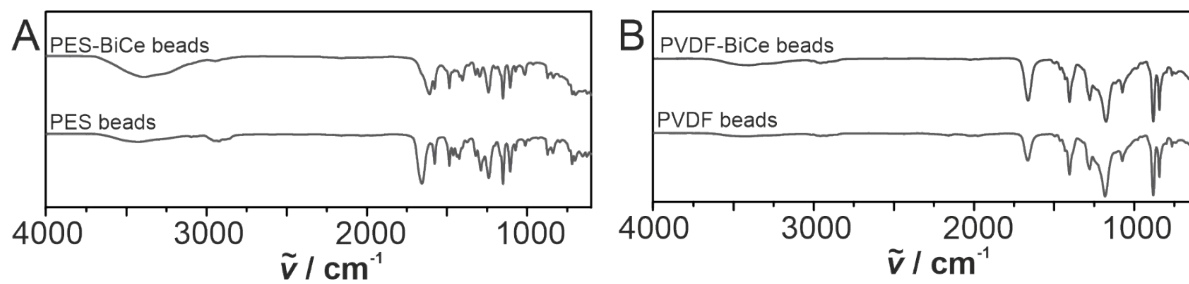


Fig. S3. FTIR spectra of coagulated PES (A) and PVDF (B) composites.

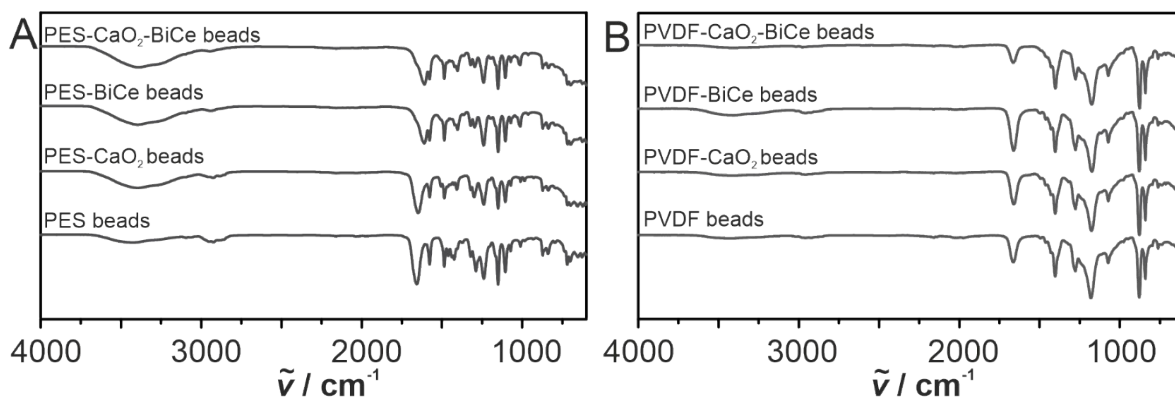


Fig. S4. FTIR spectra of coagulated PES composites with CaO₂ and BiCe (A) and PVDF composites with CaO₂ and BiCe (B).

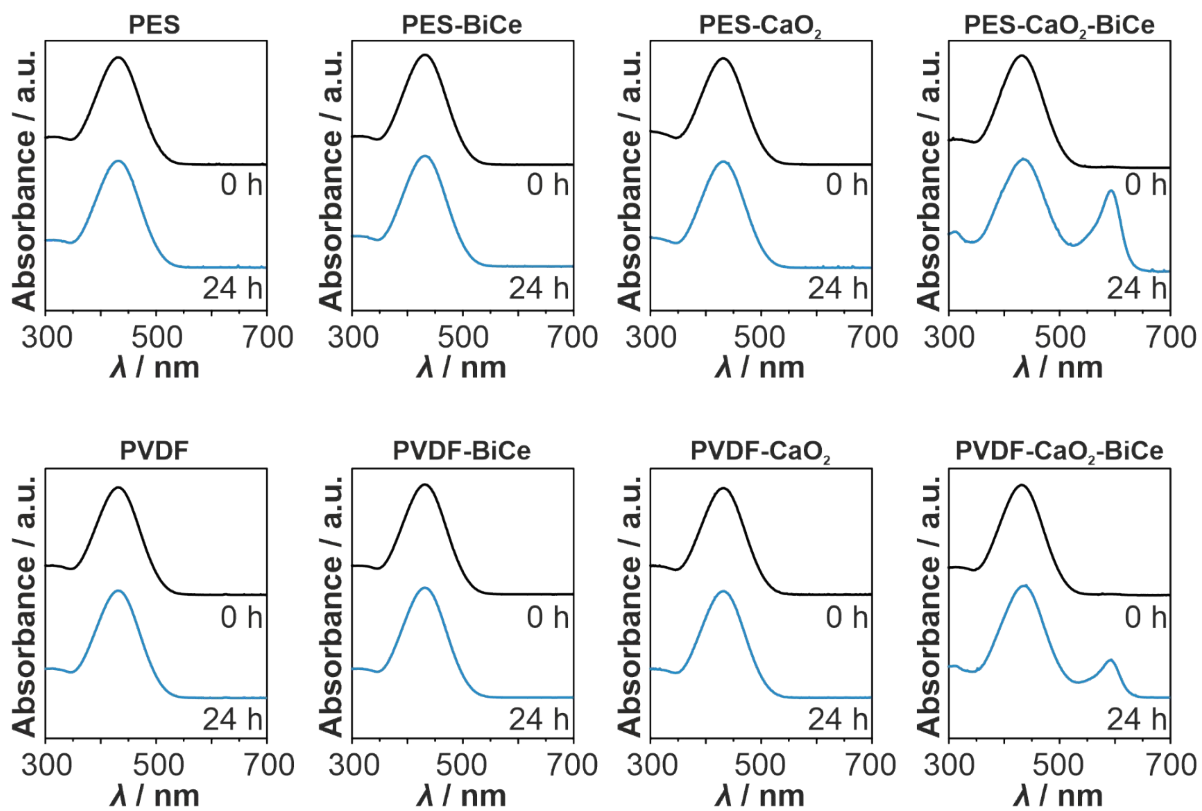


Fig. S5. UV/Vis spectra of a phenol red assay in the presence of PES, PVDF, PES-BiCe (control 1) and PVDF-BiCe composites, PES-CaO₂ and PVDF-CaO₂ composites (control 2) and PES-BiCe-CaO₂ and PVDF-BiCe-CaO₂ composites after 0 h and 24 h.