

Supplementary Information

Photocatalysis of Cr- and Fe-doped CeO₂ nanoparticles to selective oxidation of 5-hydroxymethylfurfural

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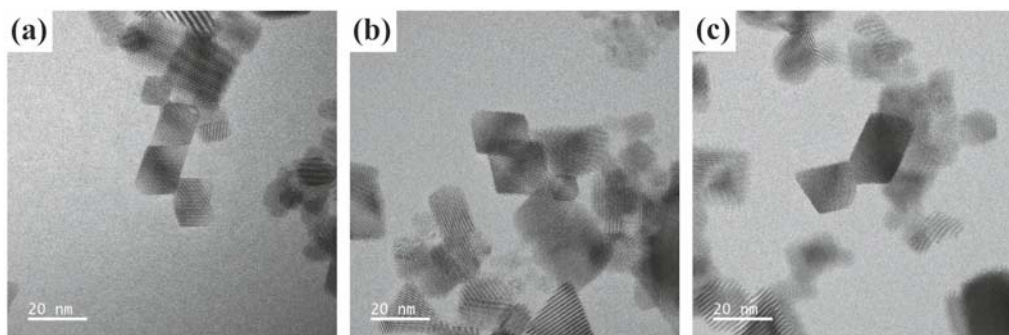


Figure S1. HRTEM images of (a) CeO_2 , (b) Cr@CeO_2 , and (c) Fe@CeO_2 NPs.

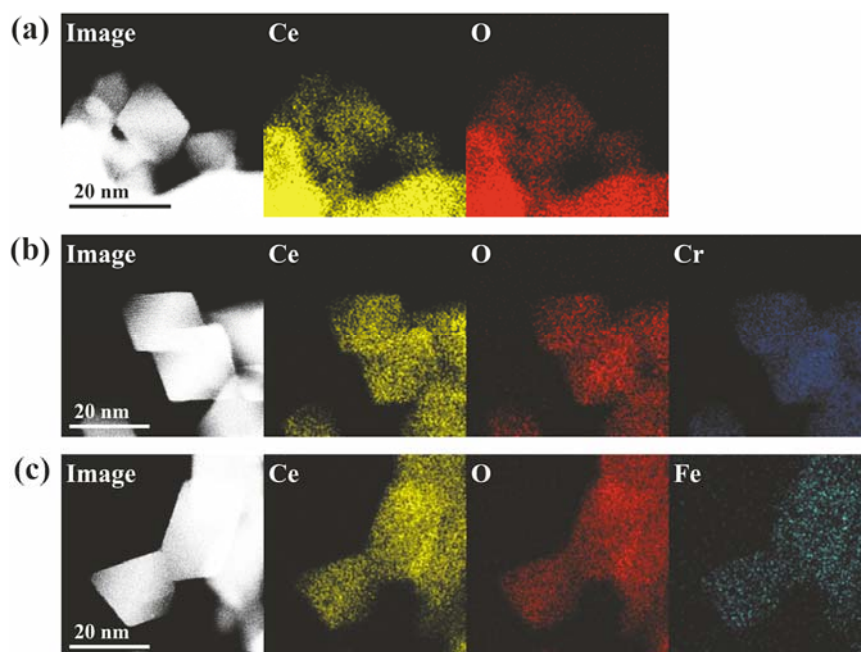


Figure S2. STEM-EDS data of (a) CeO_2 , (b) Cr@CeO_2 , and (c) Fe@CeO_2 NPs.

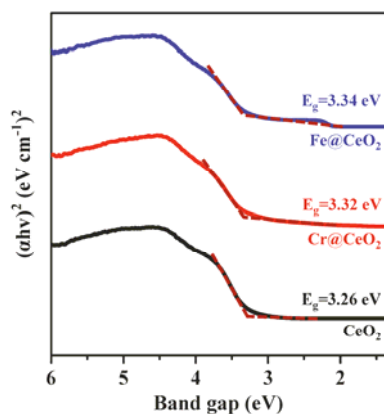


Figure S3. UV-Vis DRS spectra of CeO₂, Cr@CeO₂, and Fe@CeO₂ NPs.

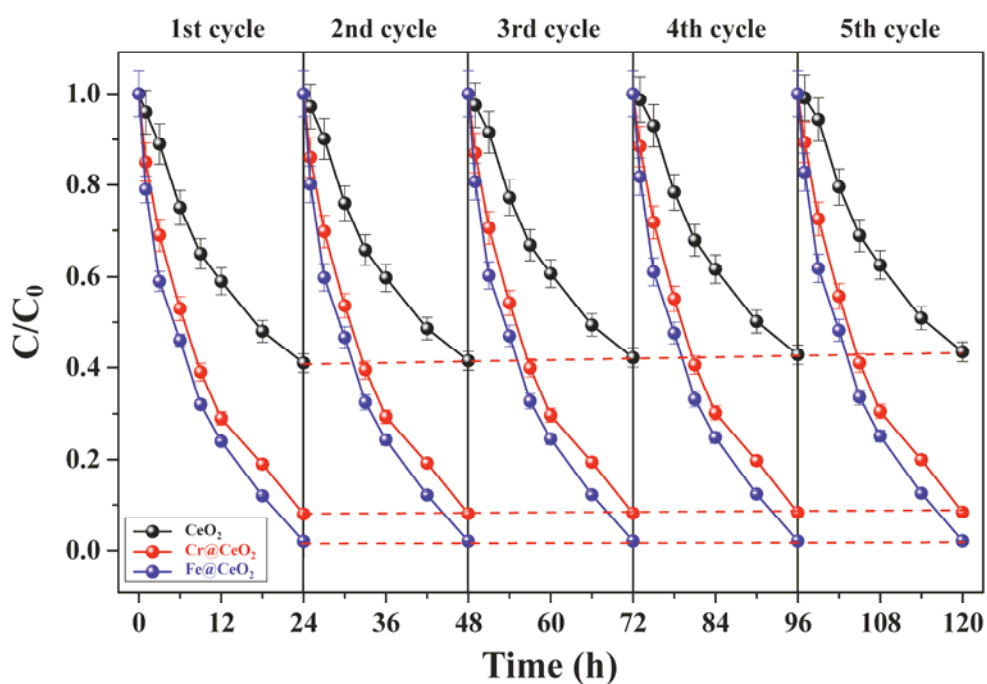


Figure S4. Repeated PCD results for the change in the relative amount of HMF under UV irradiation of 365 nm wavelength in the presence of CeO₂, Cr@CeO₂, and Fe@CeO₂ NPs, where the NPs were recovered at the end of each cycle for the reuse in the next cycle. C₀ and C indicate the initial concentration and post-reaction concentration of HMF, respectively.