

Supporting information

Enhanced peroxidase-like activity of Mo doped ceria nanoparticles for sensitive colorimetric detection of glucose

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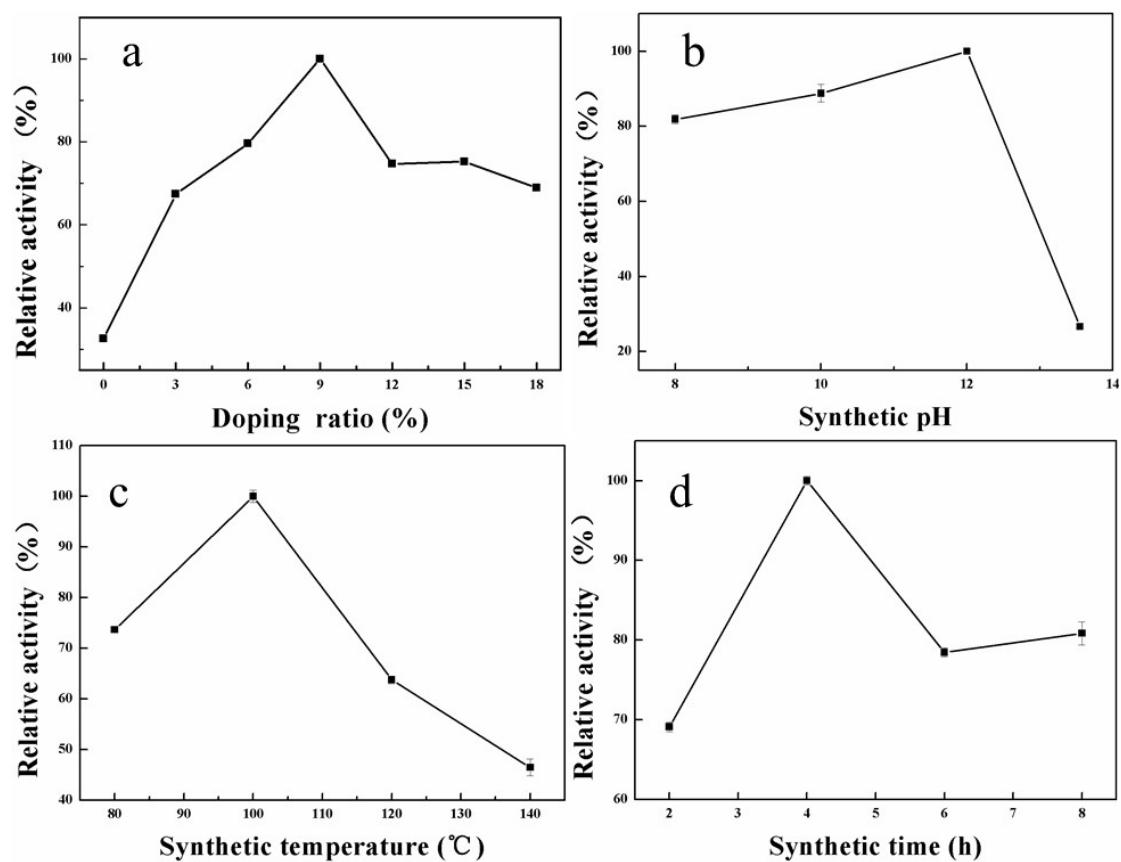


Fig.S1. The optimization of doping ratio (a), synthetic pH(b), temperature (c) and time(d) for the peroxidase-like activity of the 9Mo/CeO₂ NPs. The maximum point in each curve was set as 100%. Error bars shown represent the standard error derived from three repeated measurements.

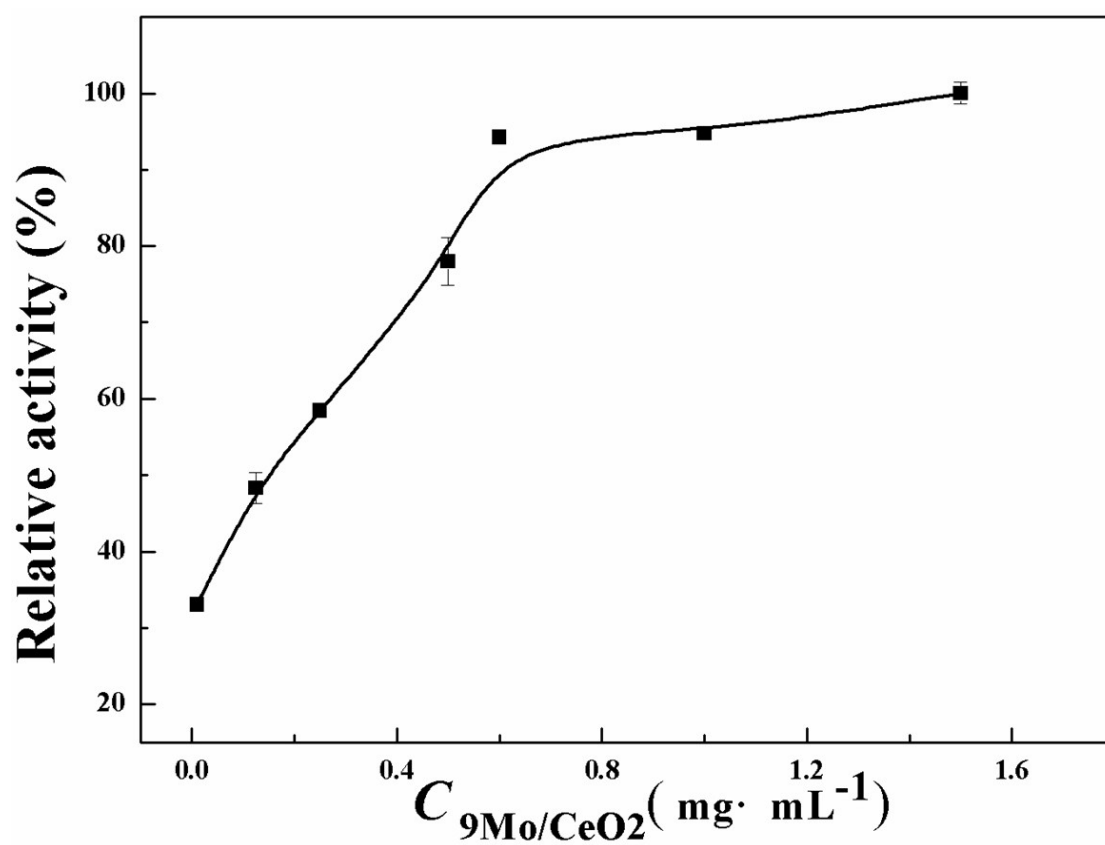


Fig.S2. The relative activity against concentration of $9\text{Mo}/\text{CeO}_2$ NPs.

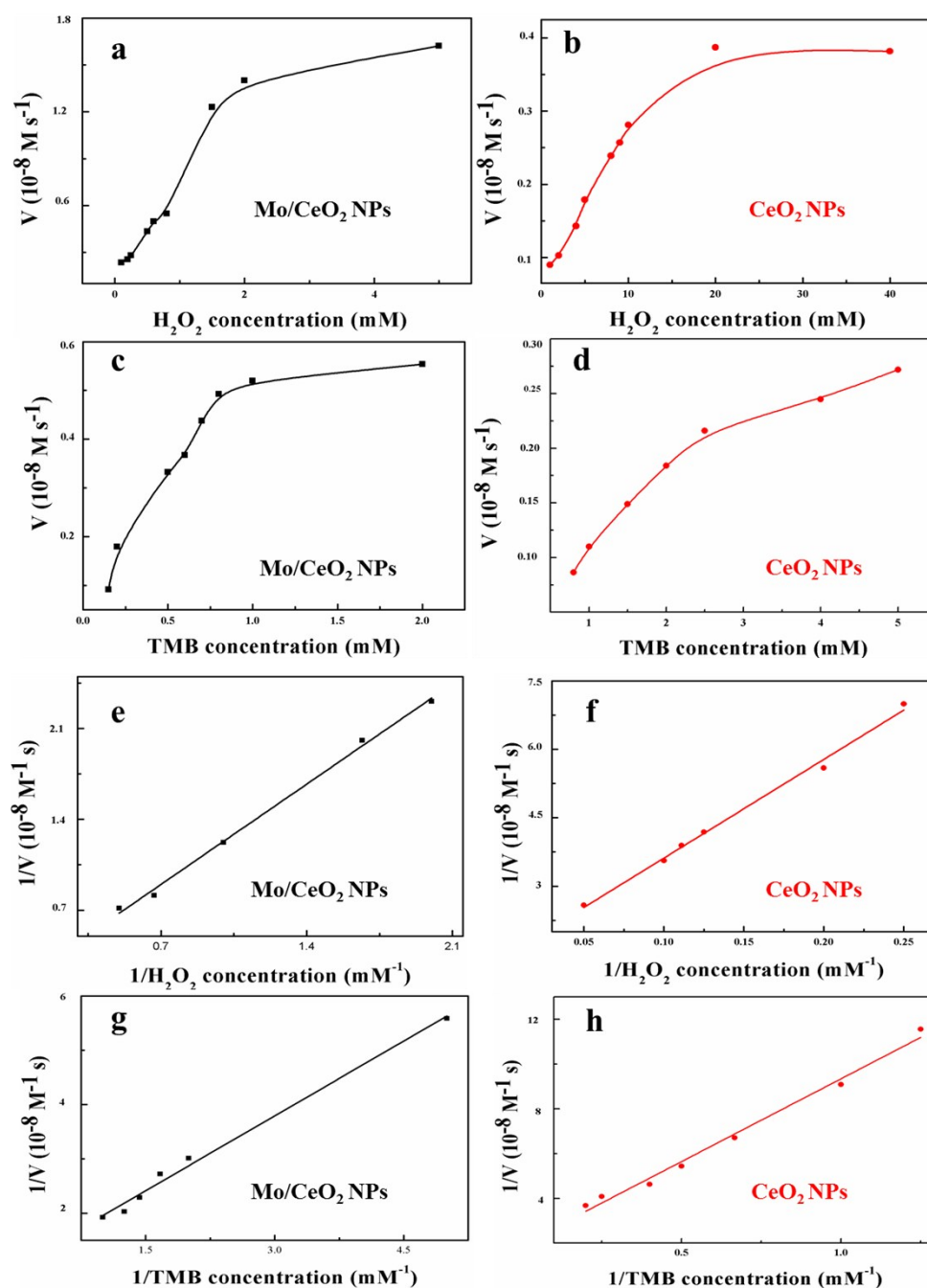


Fig.S3. The steady-state kinetic analysis. Michaelis–Menten curves of 9Mo/CeO₂ NPs and CeO₂ NPs from activity data of the fixed concentration of TMB and various concentrations of H₂O₂ (a, b), and the fixed concentration of H₂O₂ and various concentrations of TMB (c, d). The Lineweaver–Burk plots from the activity data of the concentration of H₂O₂ (e, f) and TMB (g, h).