

## Electronic Supplemental Information (ESI)

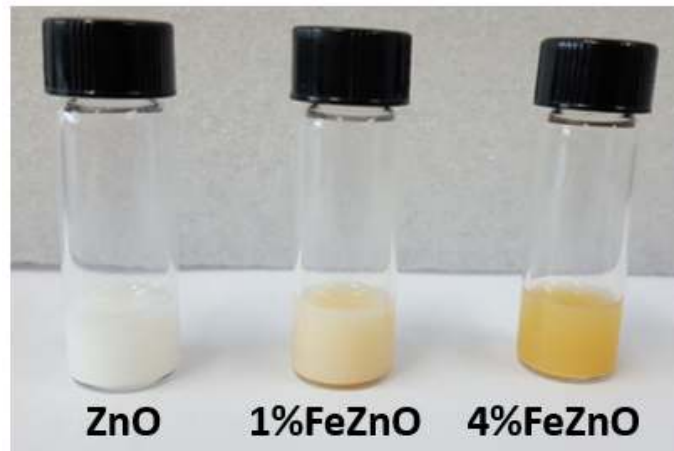
# **Iron-doped ZnO as Support for Pt-based Catalysts to Improve Activity and Stability: Enhancement of Metal–Support Interaction by the Doping Effect**

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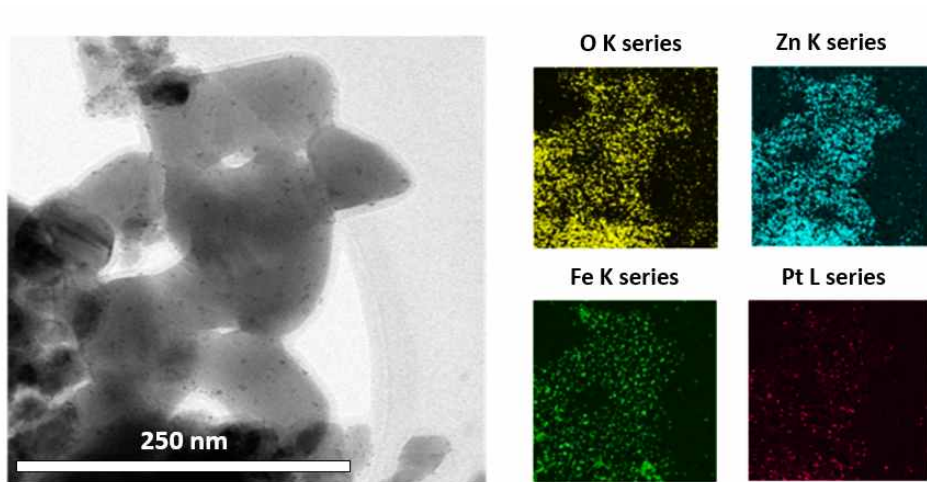
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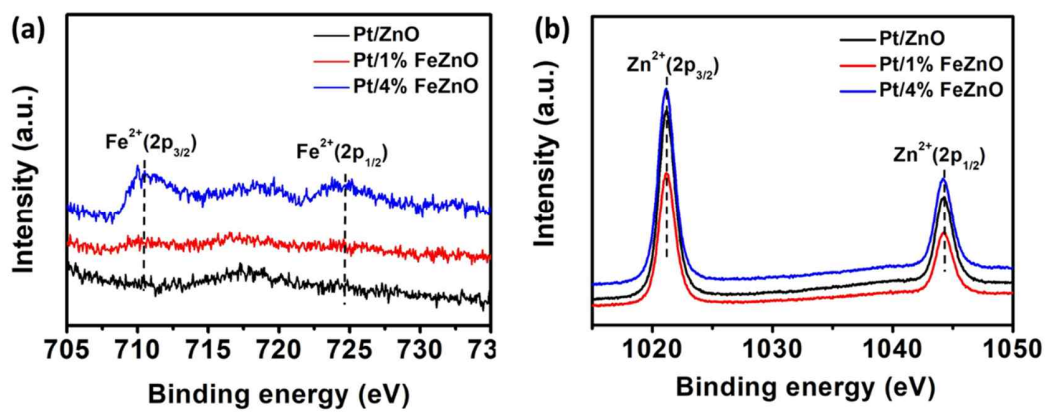
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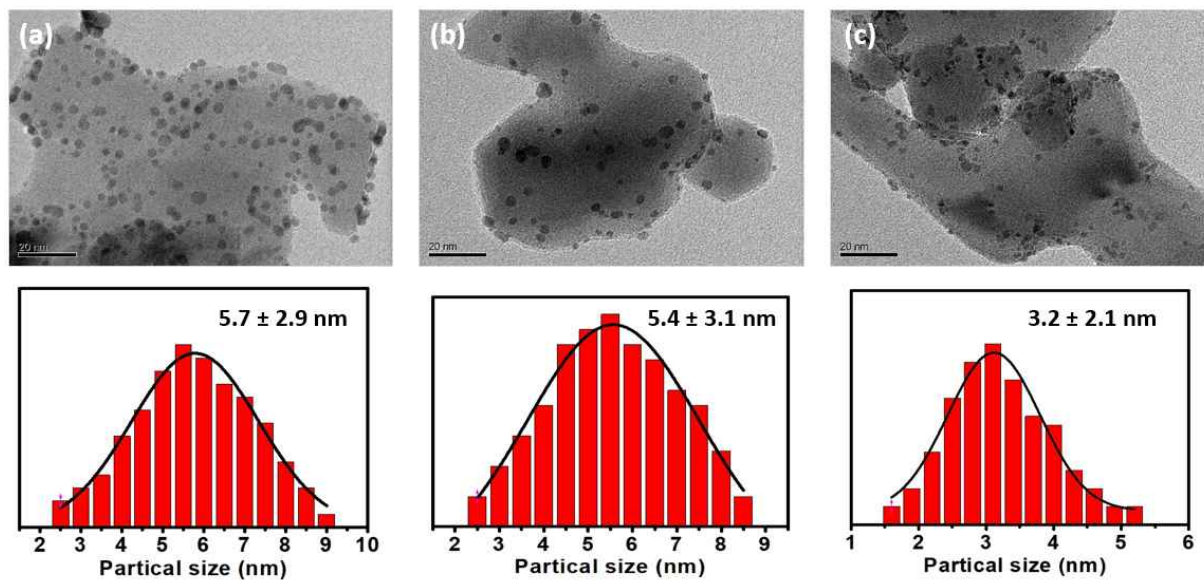
**Fig. S1** Photograph of the samples.



**Fig. S2** (left) SEM image and (right) corresponding EDS mapping of the Pt/4%FeZnO sample.



**Fig. S3** XPS spectra of (a) Fe 2p and (b) Zn 2p core levels for the catalysts Pt/ZnO, Pt/1%FeZnO, and Pt/4%FeZnO.



**Fig. S4** TEM images of the (a) Pt/ZnO, (b) Pt/1%FeZnO, and (c) Pt/4%FeZnO samples collected after the CO oxidation reaction and their corresponding particle size distributions