

Supplementary Information

**Ni₃[Fe(CN)₆]₂ nanocubes boost the catalytic activity of Pt towards
electrochemical hydrogen evolution**

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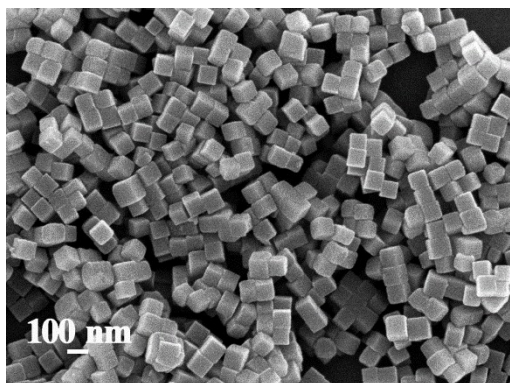


Fig. S1 SEM image of $\text{Ni}_3[\text{Fe}(\text{CN})_6]_2$ nanocubes.

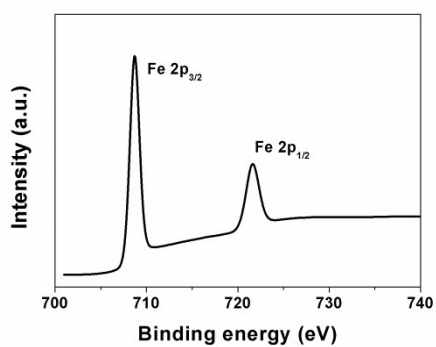


Fig. S2 The Fe 2p XPS spectrum of $\text{Ni}_3[\text{Fe}(\text{CN})_6]_2/\text{Pt}$. The Fe 2p_{3/2} peak at 708.7 eV and Fe 2p_{1/2} peak at 721.6 eV show that, most of Fe content is oxidation state of Fe (II) or Fe (III).^{1,2}

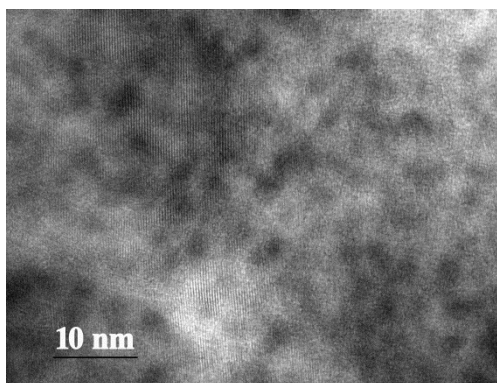


Fig. S3 TEM image of $\text{Ni}_3[\text{Fe}(\text{CN})_6]_2/\text{Pt}$ catalyst after durability experiment in H_2SO_4 .

References

1. Y. Ji, Y. Wu, G. Zhao, D. Wang, L. Liu, W. He and Y. Li, *Nano Res.*, 2015, **8**, 2706-2713.
2. Q. Wang, S. Chen, F. Shi, Y. Nie, Y. Wang, R. Wu, J. Li, Y. Zhang, W. Ding, Y. Li, L. Li and Z. Wei, *Adv. Mater.*, 2016, **28**, 10673-10678.