

Supporting Information

From Fibrous Elastin Protein to One-dimensional Transition Metal Phosphide and Their Applications

Guilue Guo,^a Yuanyuan Guo,^a Huiteng Tan,^a Hong Yu,^a Weihan Chen,^a Eileen Fong,^{*a}
Qingyu Yan^{*ab}

^aSchool of Materials Science and Engineering, Nanyang Technological University, 50 Nanyang Avenue,
639798, Singapore

^bEnergy Research Institute@NTU, Nanyang Technological University, 50 Nanyang Drive, 639798, Singapore

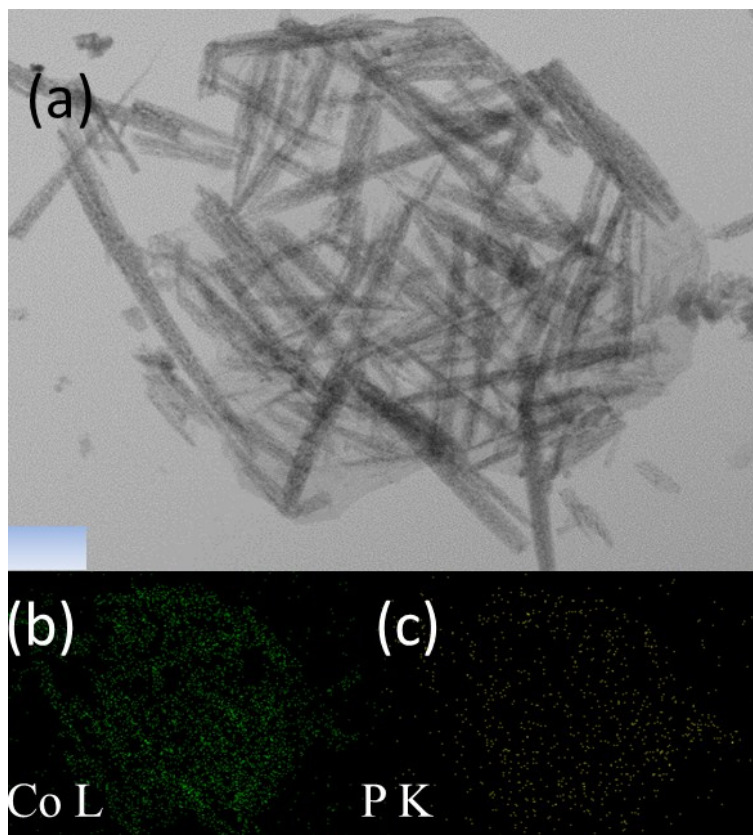


Fig. S1 Elemental mapping of 1D CoP, scale bar in a: 200 nm

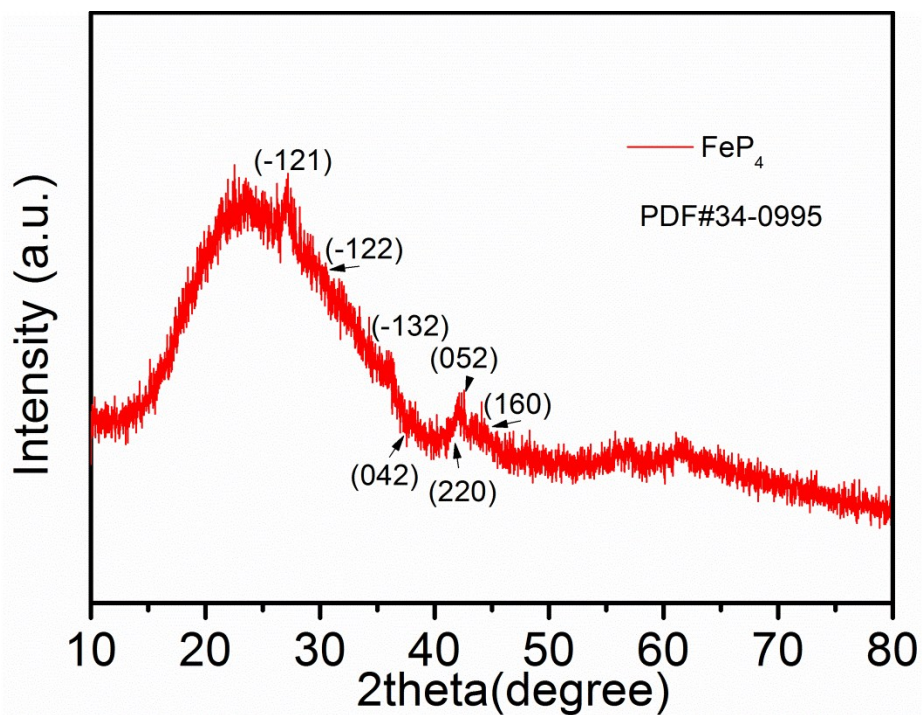


Fig. S2 XRD spectrum of 1D FeP₄.

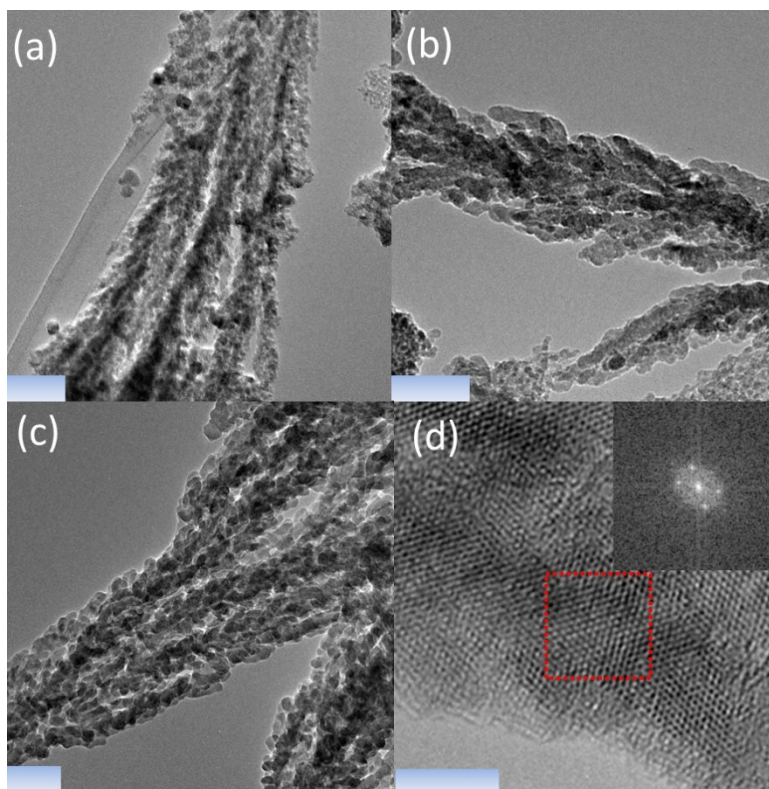


Fig. S3 TEM characterization of 1D FeP₄. Scale bar: (a) 100 nm. (b-c) 50 nm. (d): 2 nm.

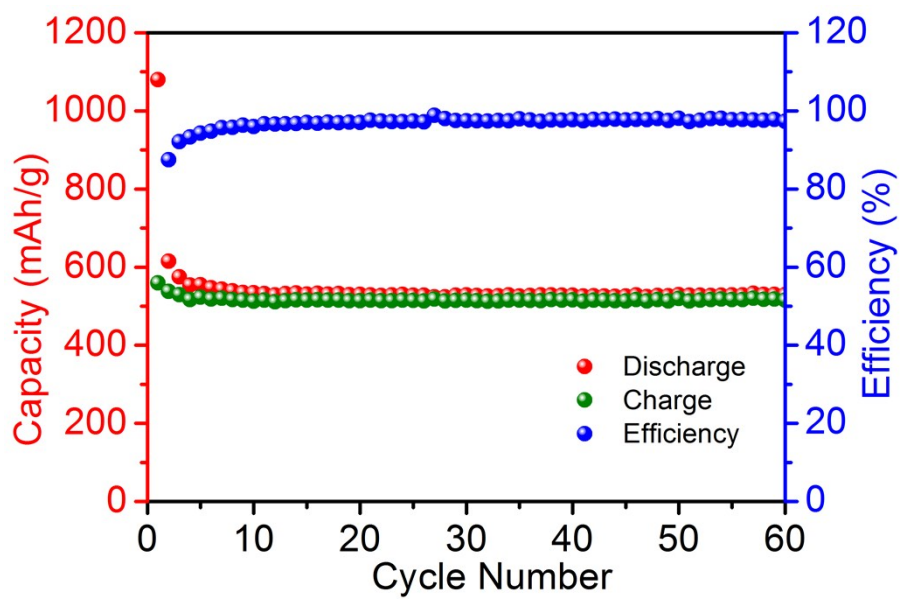


Fig. S4 Cycling performance of SIB based on 1D CoP at 0.1 C.

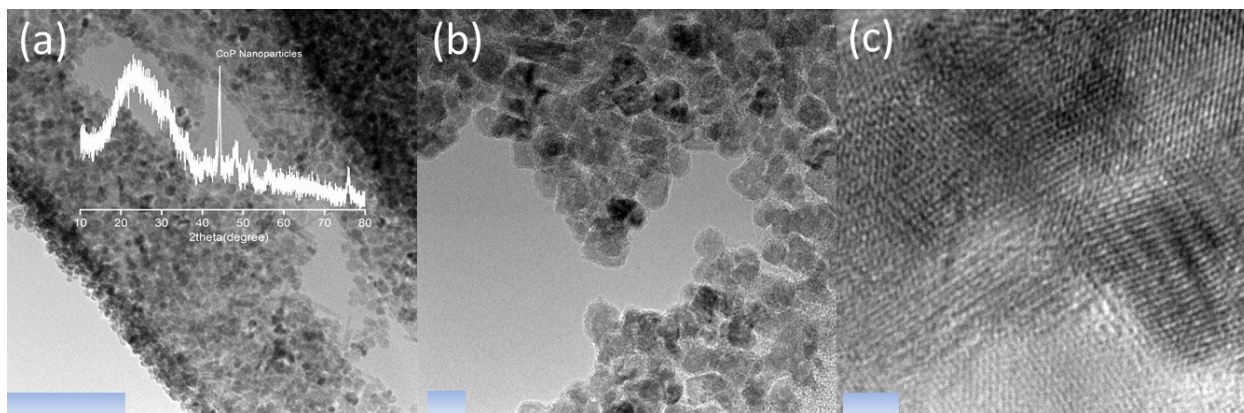


Fig. S5 CoP nanoparticles. Scale bars: (a) 100 nm; (b) 10 nm; (c) 2 nm.

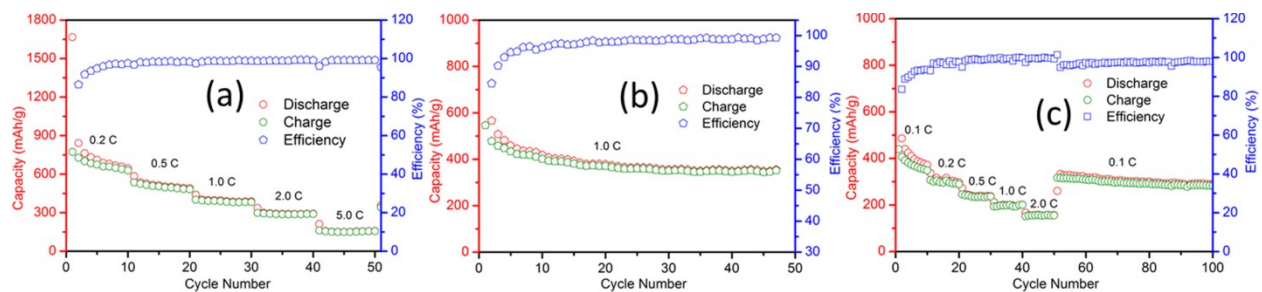


Fig. S6 Lithium and sodium storage performance of CoP nanoparticles: (a) rate capability of lithium storage; (b) cycling performance of lithium storage; (c) rate capability of sodium storage.