

Red-blood-cell-like $(\text{NH}_4)[\text{Fe}_2(\text{OH})(\text{PO}_4)_2] \cdot 2\text{H}_2\text{O}$ particles: Fabrication and application in LiFePO_4 cathode materials

Kaipeng Wu,^{*a} Ke Du,^b Guorong Hu^{*b}

^a State Key Laboratory Cultivation Base for Nonmetal Composites and Functional Materials, Southwest University of Science and Technology, Mianyang 621010, China

^b School of Metallurgy and Environment, Central South University, Changsha 410083, China

*Corresponding author, E-mail: wukaipeng@126.com, hellolib@163.com.

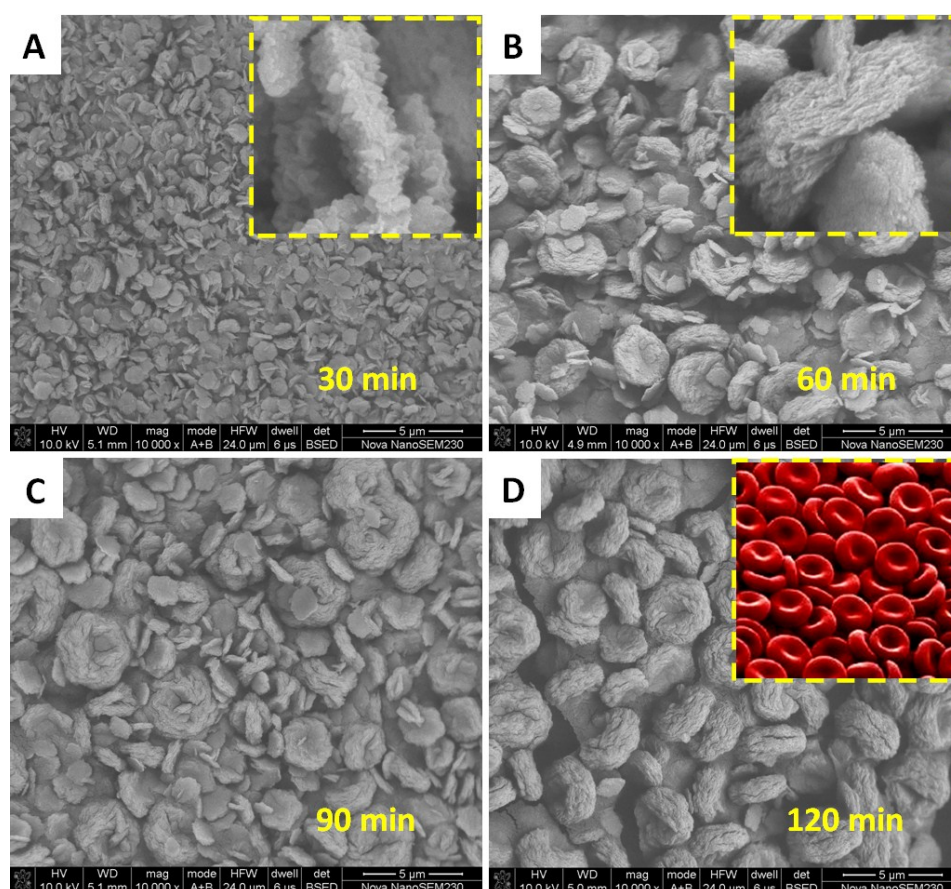


Fig. S1. SEM images of the samples reacted at different times (30, 60, 90 and 120

min).

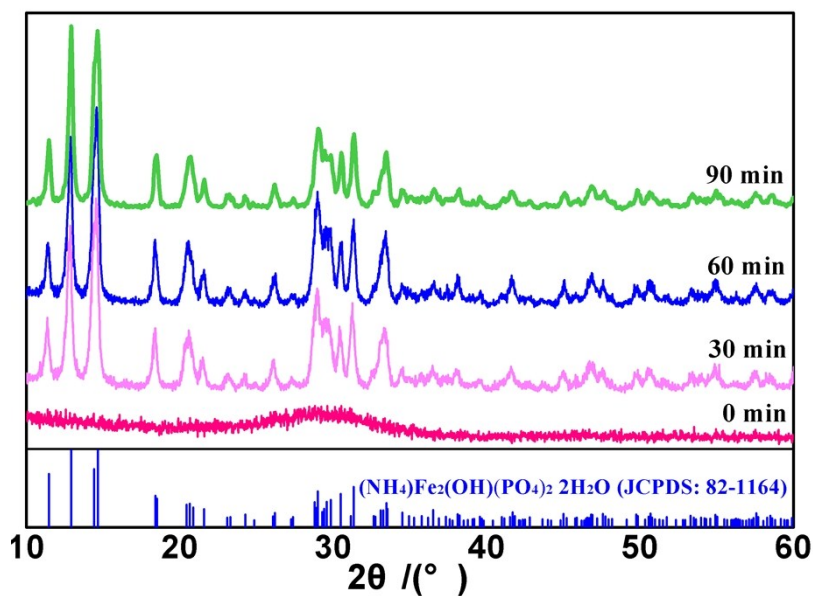


Fig. S2. The XRD patterns of the samples isolated at different times (0, 30, 60 and 90 min).

Tablea S1 Rietveld refinement results of XRD data for LiFePO₄/C samples.

samples	Atom	Occupancy	x	y	z
a-LiFePO ₄	Li	1	0	0	0
	Fe	0.0923	0.2822	0.25	0.9758
	P	0.0939	0.0951	0.25	0.4186
	O1	1.0612	0.0978	0.25	0.7412
	O2	1.0325	0.4578	0.25	0.2120
	O3	0.9874	0.1665	0.0463	0.2807
b-LiFePO ₄	Li	1	0	0	0
	Fe	0.0965	0.2819	0.25	0.9743
	P	0.0978	0.0948	0.25	0.4177
	O1	1.0843	0.0992	0.25	0.7455
	O2	1.0441	0.4566	0.25	0.2096
	O3	0.9628	0.1672	0.045	0.2800

