

Supplementary Material

for

Fabrication of phosphorus doped cobalt silicate with improved electrochemical properties

Jie Ji¹, Yunfeng Zhao², Yifu Zhang², Xueying Dong², Changgong Meng², Xiaoyang Liu^{1,*}

¹ State Key Laboratory of Inorganic Synthesis and Preparative Chemistry, College of Chemistry, Jilin University, Changchun 130012, PR China;
jijie1218@mails.jlu.edu.cn (J. Ji)

² Affiliation 2 State Key Laboratory of Fine Chemicals, School of Chemical Engineering, Dalian University of Technology, Dalian, 116024, China;
yfdlut@163.com (Y. Zhao); yfzhang@dlut.edu.cn (Y. Zhang);
dxy1123@mail.dlut.edu.cn (X. Dong); cgmeng@dlut.edu.cn (C. Meng)

* Correspondence: liuxy@jlu.edu.cn

Figure S1

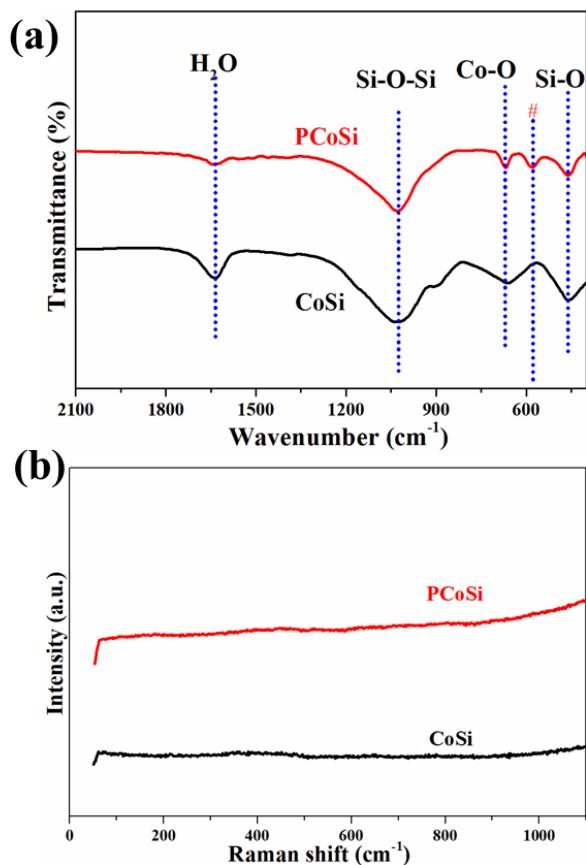


Figure S1. (a) FTIR spectra and (b) Raman spectra of CoSi and PCoSi.

Figure S2

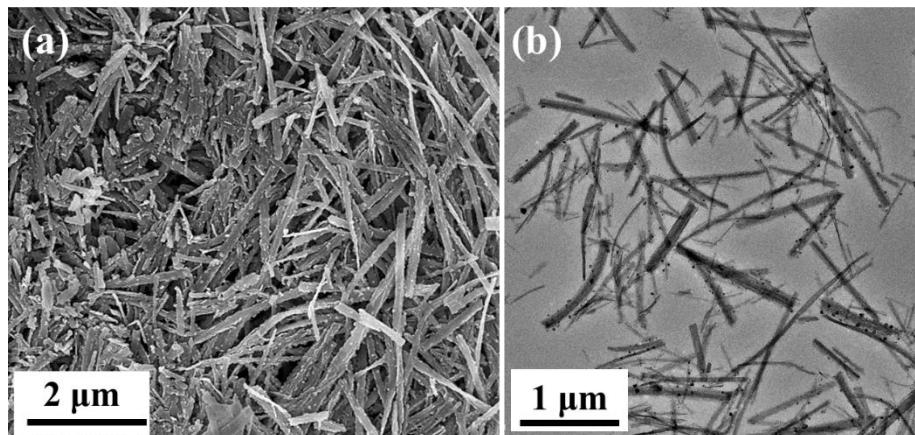


Figure S2. (a) FE-SEM and (b) TEM image of CoSi.

Figure S3

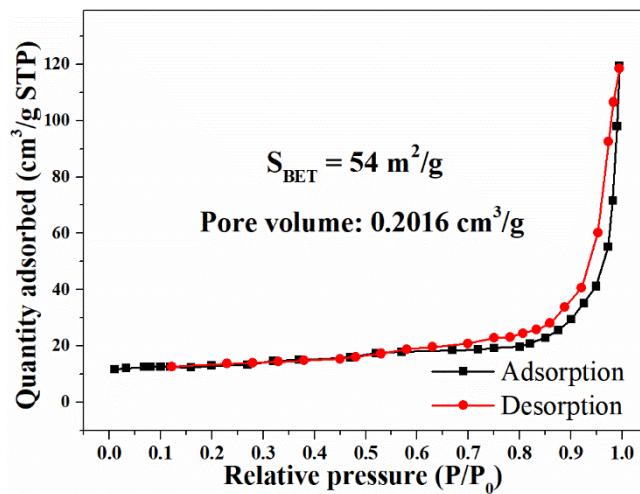


Figure S3. N₂ adsorption-desorption isotherms of CoSi.

Figure S4

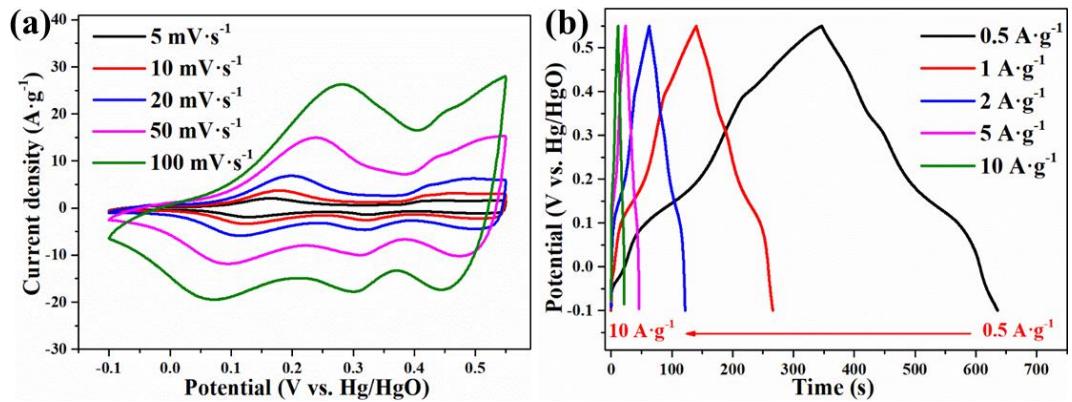


Figure S4. Electrochemical properties of CoSi: (a) CV curves at various scan rates; (b) GCD curves at various current densities.

Figure S5

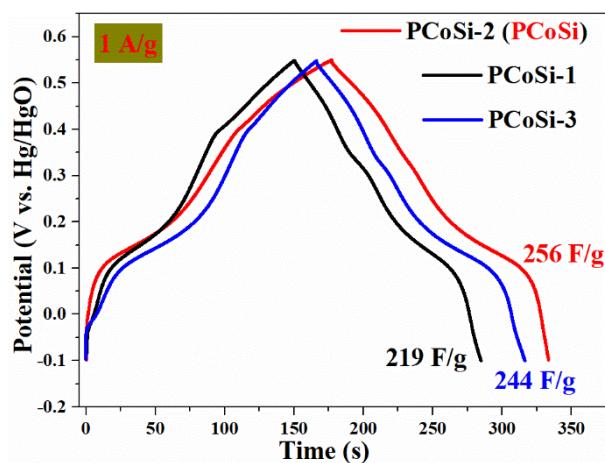


Figure S5. GCD curves of PCoSi synthesized using different contents of NaH_2PO_2 .

PCoSi-1: 125 mg NaH_2PO_2

PCoSi-2: 250 mg NaH_2PO_2

PCoSi-3: 275 mg NaH_2PO_2