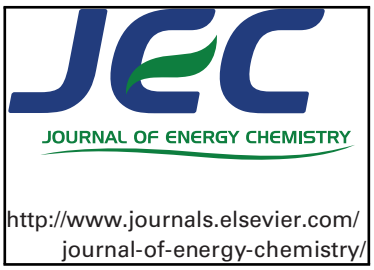

Porous nanostructured $ZnCo_2O_4$ derived from MOF-74: high-performance anode materials for lithium ion batteries

Mengjuan Du , Dan He , Yongbing Lou , Jinxi Chen

PII: S2095-4956(16)30422-3
DOI: 10.1016/j.jechem.2017.02.001
Reference: JECHEM 266

To appear in: *Journal of Energy Chemistry*

Received date: 11 December 2016
Revised date: 24 January 2017
Accepted date: 13 February 2017

Please cite this article as: Mengjuan Du , Dan He , Yongbing Lou , Jinxi Chen , Porous nanostructured $ZnCo_2O_4$ derived from MOF-74: high-performance anode materials for lithium ion batteries, *Journal of Energy Chemistry* (2017), doi: 10.1016/j.jechem.2017.02.001

Highlights

- Porous $ZnCo_2O_4$ fabricated via calcination of MOF-74 for the first time.
- $ZnCo_2O_4$ shows a similar morphology and porous structure as MOF-74 precursor.
- The specific surface area of porous $ZnCo_2O_4$ is up to 110.16 $m^2 g^{-1}$.
- The porous $ZnCo_2O_4$ shows high reversible capacity and good stability.
- High electrochemical performance due to the synergistic effect and porous structure.