Accepted Manuscript

KOH activation of biomass-derived nitrogen-doped carbons for supercapacitor and electrocatalytic oxygen reduction

Gaoxin Lin, Ruguang Ma, Yao Zhou, Qian Liu, Xiaoping Dong, Jiacheng Wang

PII: S0013-4686(17)32672-5

DOI: 10.1016/j.electacta.2017.12.107

Reference: EA 30895

To appear in: *Electrochimica Acta*

Received Date: 12 October 2017

Revised Date: 29 November 2017

Accepted Date: 16 December 2017

Please cite this article as: G. Lin, R. Ma, Y. Zhou, Q. Liu, X. Dong, J. Wang, KOH activation of biomass-derived nitrogen-doped carbons for supercapacitor and electrocatalytic oxygen reduction, *Electrochimica Acta* (2018), doi: 10.1016/j.electacta.2017.12.107.

Graphical abstract:

A series of biomass-derived hierarchical porous nitrogen-doped carbons have been prepared from nitrogen-rich soybean *via* templating carbonization coupling with subsequent KOH activation, which could be used as high-performance electrode materials for supercapacitor and electrocatalytic oxygen reduction.