



Title	Nitrogen-Doped Hierarchical Porous Carbon Architecture Incorporated with Cobalt Nanoparticles and Carbon Nanotubes as Efficient Electrocatalyst for Oxygen Reduction Reaction
Author(s)	Zhu, Chunyu; Kim, Cheong; Aoki, Yoshitaka; Habazaki, Hiroki
Citation	Advanced Materials Interfaces, 4(19), 1700583 https://doi.org/10.1002/admi.201700583
Issue Date	2017-10-09
Doc URL	http://hdl.handle.net/2115/71637
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Supporting Information

Nitrogen-doped hierarchical porous carbon architecture incorporated with cobalt nanoparticles and carbon nanotubes as efficient electrocatalyst for oxygen reduction reaction

Chunyu ZHU^{a,b,}, Cheong KIM^b, Yoshitaka AOKI^{a,b}, and Hiroki HABAZAKI^{a,b},*

Dr. Prof. Chunyu ZHU, MS. Cheong KIM, Dr. Prof. Yoshitaka AOKI, and Dr. Prof. Hiroki HABAZAKI

Division of Applied Chemistry & Frontier Chemistry Center, Faculty of Engineering,
Hokkaido University, Sapporo, Hokkaido 060-8628, Japan

Graduate School of Chemical Sciences and Engineering, Hokkaido University, Sapporo,
Hokkaido 060-8628, Japan

E-mail address: chunyu6zhu@eng.hokudai.ac.jp (Chunyu Zhu)

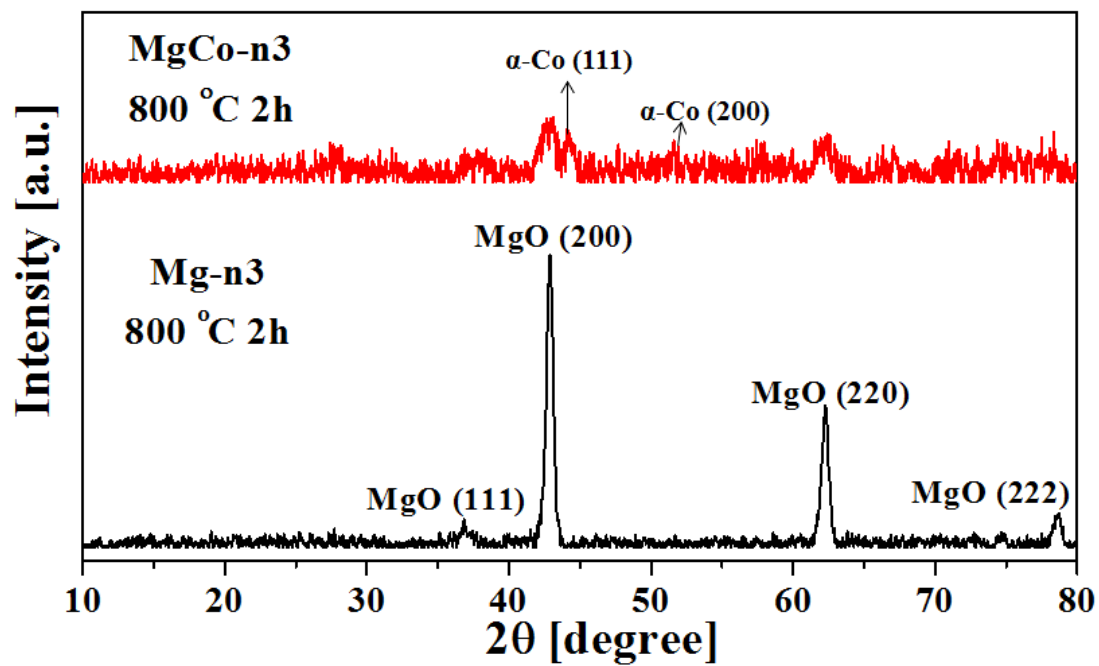
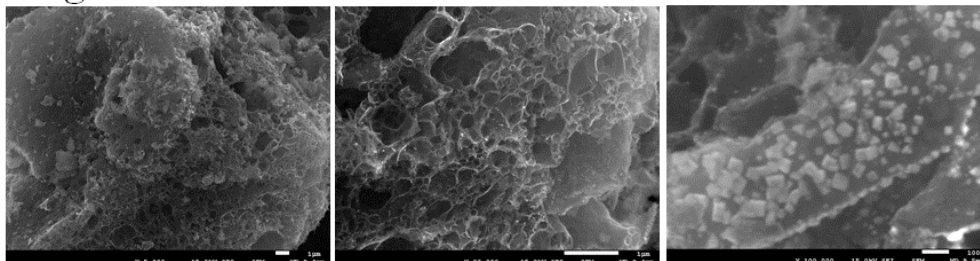


Figure S1. XRD patterns for the samples after heat treatment at 800 °C for 2 h.

Mg-n3-800



MgCo-n3-800

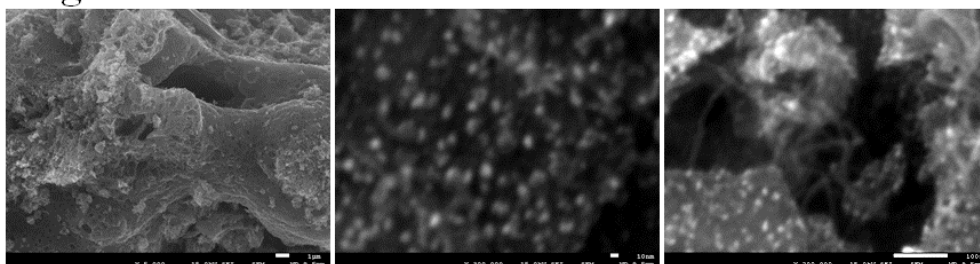


Figure S2. SEM images of the samples after heat treatment at 800 °C for 2h.

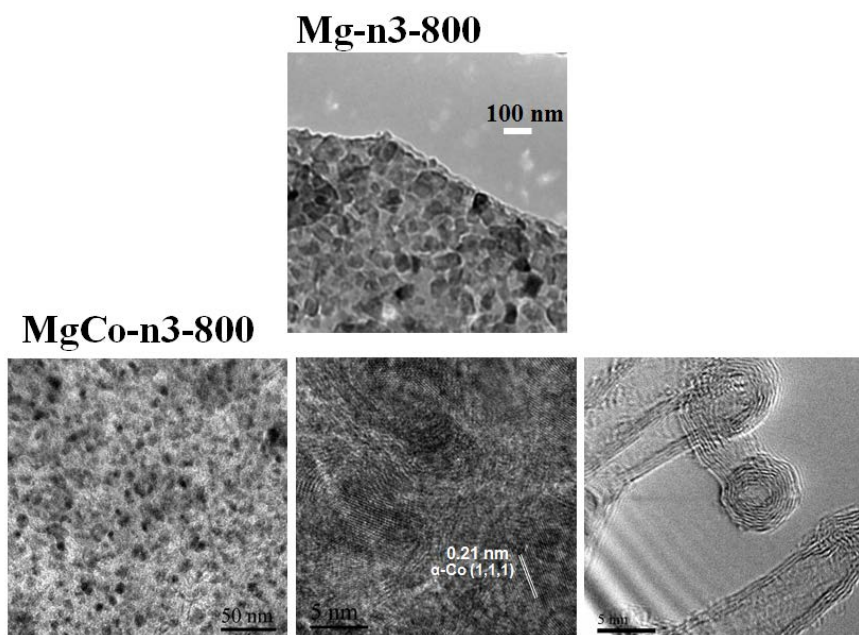


Figure S3. TEM images of the samples after heat treatment at 800 °C for 2h.

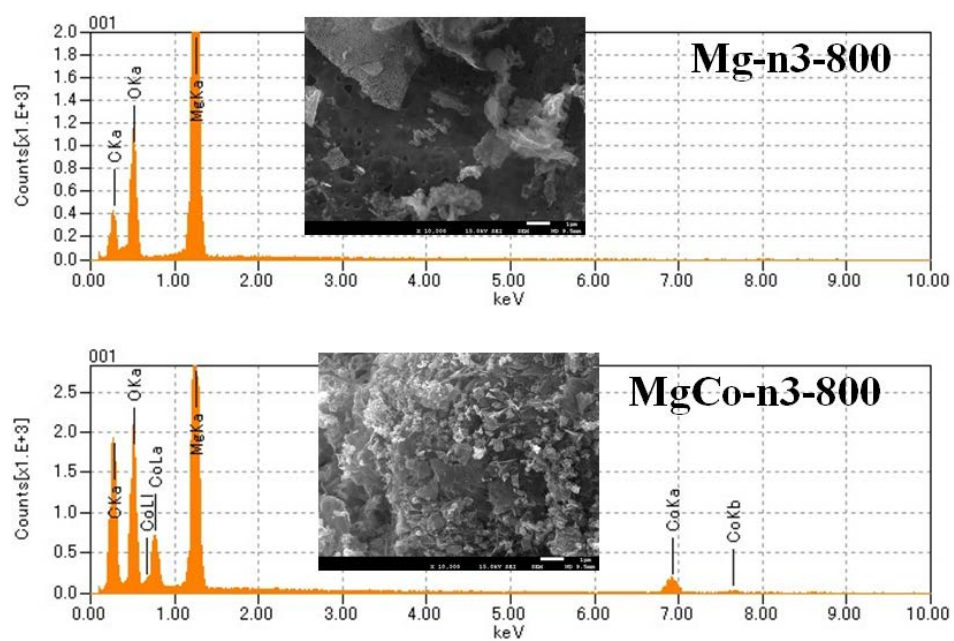


Figure S4. SEM-EDS spectra of the samples after heat treatment at 800 °C for 2h.

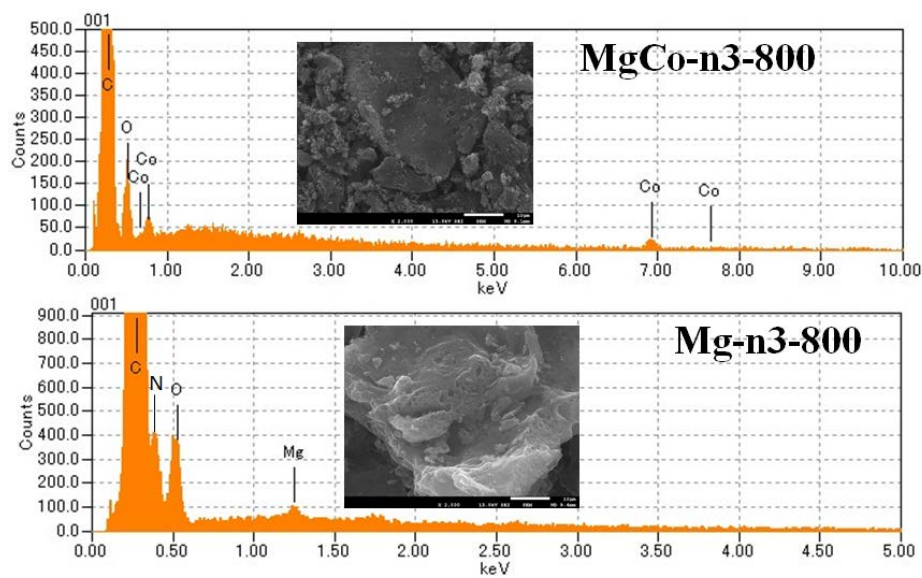


Figure S5. EDS spectra of the carbon samples under SEM observation.

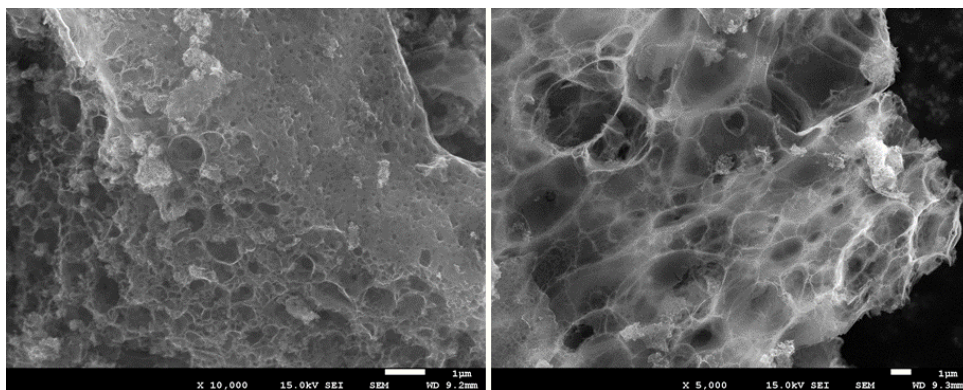


Figure S6. SEM images of the obtained carbon sample (MgCo-n3-800).

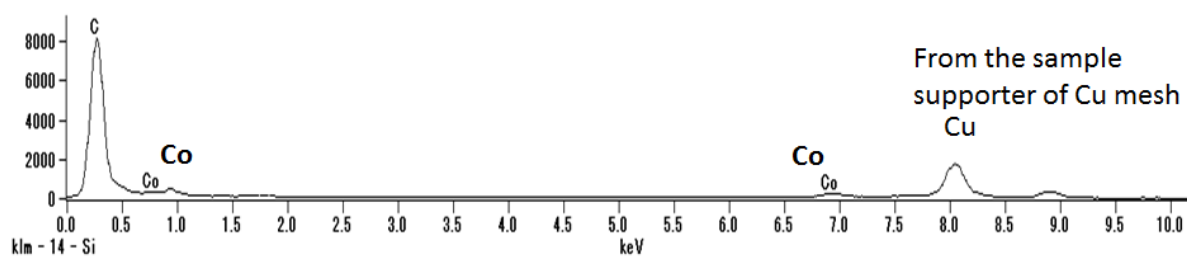


Figure S7. EDS spectra of MgCo-n3-800 under TEM observation.

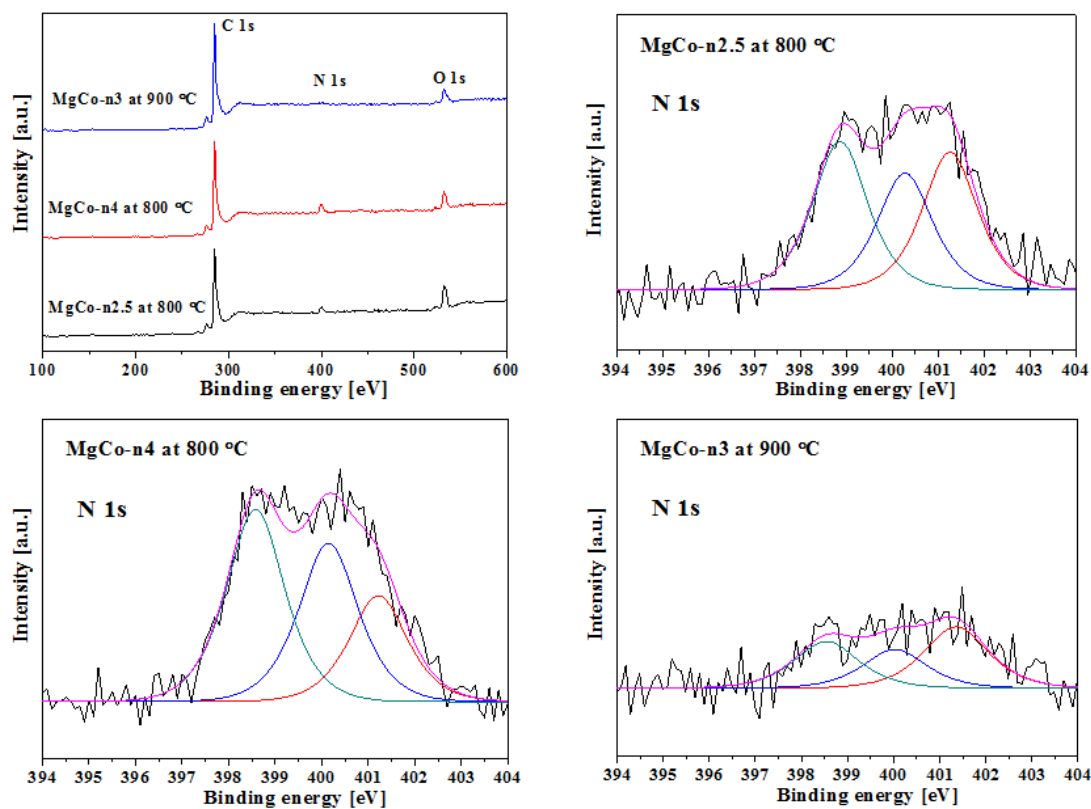


Figure S8. XPS spectra of the carbon samples.

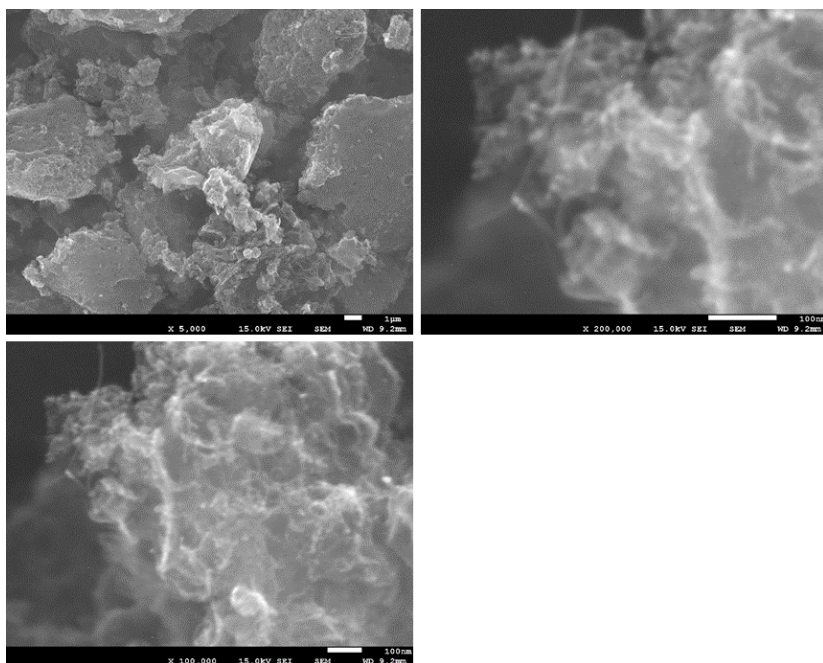


Figure S9. SEM images for sample MgCo-n2.5-800.

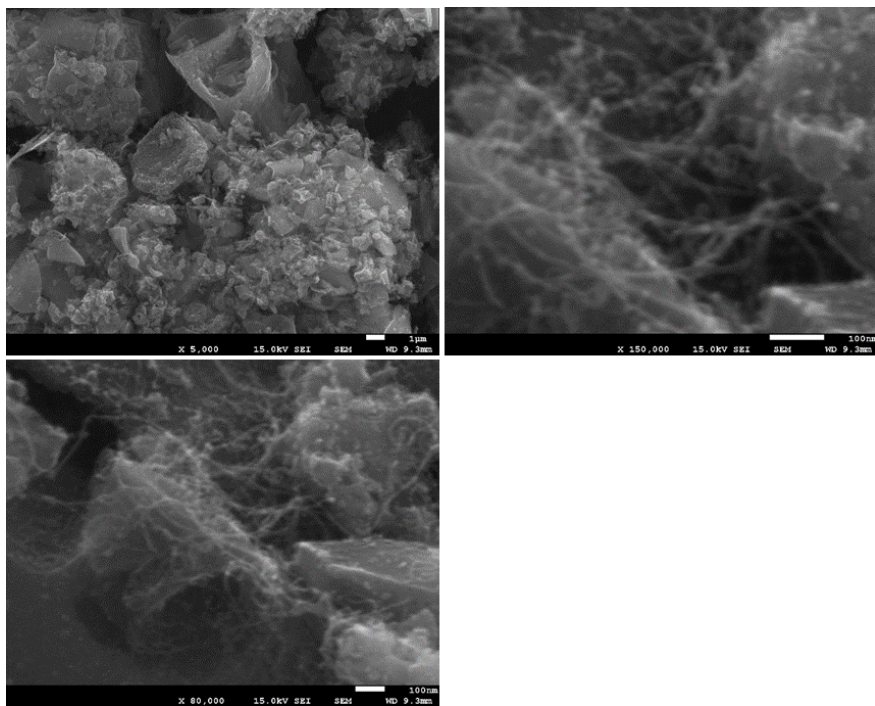


Figure S10. SEM images for sample MgCo-n4-800.

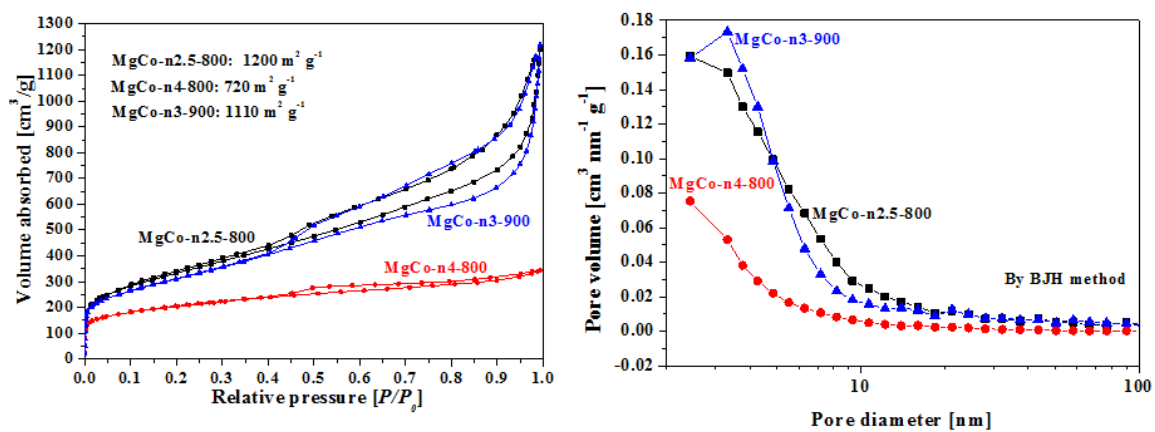


Figure S11. BET N_2 sorption isotherm and pore size distribution.