

# Web of Science

Search

Search Results

My Tools ▾

Search History

Marked List

Full Text from Publisher

 Look Up Full Text


Save to EndNote online

Add to Marked List

71 of 723

## N-doped carbon nanotubes from functional tubular polypyrrole: A highly efficient electrocatalyst for oxygen reduction reaction

By: Liu, Q (Liu, Qian)<sup>[1]</sup>; Pu, ZH (Pu, Zonghua)<sup>[1]</sup>; Tang, C (Tang, Chun)<sup>[1]</sup>; Asiri, AM (Asiri, Abdullah M.)<sup>[2,3]</sup>; Qusti, AH (Qusti, Abdullah H.)<sup>[2,3]</sup>; Al-Youbi, AO (Al-Youbi, Abdulrahman O.)<sup>[2,3]</sup>; Sun, XP (Sun, Xuping)<sup>[1,2,3]</sup>

[View ResearcherID and ORCID](#)

### ELECTROCHEMISTRY COMMUNICATIONS

Volume: 36 Pages: 57-61

DOI: 10.1016/j.elecom.2013.09.013

Published: NOV 2013

[View Journal Impact](#)

### Abstract

The present communication reports on the preparation of N-doped carbon nanotubes (NCNTs) by pyrolysis of FeCl<sub>3</sub> and methyl orange (MO) co-doped functional tubular polypyrrole (PPy). As an oxygen reduction reaction (ORR) catalyst, NCNT-800 obtained at 800 degrees C exhibits high catalytic activity comparable to commercial Pt/C catalyst with superior methanol tolerance ability and durability in alkaline conditions. (C) 2013 Elsevier B.V. All rights reserved.


### Keywords

**Author Keywords:** Oxygen reduction reaction; Functional tubular polypyrrole; Self-degraded template; Nitrogen-doped nanotubes; Pyrolysis temperature




**KeyWords Plus:** MEMBRANE FUEL-CELLS; ELECTROCHEMICAL ACTIVITY; CATALYSTS; ARRAYS

### Author Information

**Reprint Address:** Sun, XP (reprint author)

-  China West Normal Univ, Sch Chem & Chem Ind, Chem Synth & Pollut Control Key Lab Sichuan Prov, 166 Renmin St, Nanchong 637002, Sichuan, Peoples R China.

#### Addresses:

-  [ 1 ] China West Normal Univ, Sch Chem & Chem Ind, Chem Synth & Pollut Control Key Lab Sichuan Prov, Nanchong 637002, Sichuan, Peoples R China
-  [ 2 ] King Abdulaziz Univ, Fac Sci, Dept Chem, Jeddah 21589, Saudi Arabia  
**Organization-Enhanced Name(s)**  
King Abdulaziz University
-  [ 3 ] King Abdulaziz Univ, Ctr Excellence Adv Mat Res, Jeddah 21589, Saudi Arabia  
**Organization-Enhanced Name(s)**  
King Abdulaziz University

**E-mail Addresses:** [sun.xuping@hotmail.com](mailto:sun.xuping@hotmail.com)

### Publisher

ELSEVIER SCIENCE INC, 360 PARK AVE SOUTH, NEW YORK, NY 10010-1710 USA

## Citation Network

28 Times Cited

25 Cited References

[View Related Records](#)
 [Create Citation Alert](#)

*(data from Web of Science Core Collection)*

### All Times Cited Counts

29 in All Databases

28 in Web of Science Core Collection

2 in BIOSIS Citation Index

2 in Chinese Science Citation Database

0 in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

### Usage Count

Last 180 Days: 10

Since 2013: 94

[Learn more](#)

### Most Recent Citation

Yu, Shuping. High performance N-doped moCNTs catalyst with graphene-like nanosheets structure for oxygen reduction . INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, MAY 25 2017.

[View All](#)

### This record is from:

**Web of Science Core Collection**  
- Science Citation Index Expanded

### Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

**Categories / Classification****Research Areas:** Electrochemistry**Web of Science Categories:** Electrochemistry**Document Information****Document Type:** Article**Language:** English**Accession Number:** WOS:000328927600015**ISSN:** 1388-2481**eISSN:** 1873-1902**Journal Information****Table of Contents:** [Current Contents Connect](#)**Impact Factor:** [Journal Citation Reports](#)**Other Information****IDS Number:** 278ZE**Cited References in Web of Science Core Collection:** **25****Times Cited in Web of Science Core Collection:** **28**