大连化物所科技论文奖励申报表

（近期热点论文奖）

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| --- | --- | --- | --- | --- | --- |
| **论文题目** | **Podlike N-Doped Carbon Nanotubes Encapsulating FeNi Alloy**  **Nanoparticles: High-Performance Counter Electrode Materials for**  **Dye-Sensitized Solar Cells** | | | | |
| **作者（英文）** | **Xiaojia Zheng, Jiao Deng, Nan Wang, Dehui Deng,\* Wen-Hua Zhang,\* Xinhe Bao, and Can Li** | | | | |
| **作者（中文）** | **郑霄家，邓浇 (共同第一作者)，王楠；邓德会；张文华；**  **包信和，李灿** | | | | |
| **期刊名称** | **ANGEWANDTE CHEMIE-INTERNATIONAL EDITION** | | | | |
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近期热点论文奖引用论文清单

**（他引）**

**一、引用论文第一产权单位为国外机构**

第 1 条，共 7 条

标题: [Strongly Coupled 3D Hybrids of N-doped Porous Carbon Nanosheet/CoNi Alloy-Encapsulated Carbon Nanotubes for Enhanced Electrocatalysis](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=8)

作者: Hou, Yang; Cui, Shumao; Wen, Zhenhai; Guo, Xiaoru; Feng, Xinliang; Chen, Junhong

来源出版物: [SMALL](javascript:;)  卷: 11   期: 44   页: 5940-5948   出版年: NOV 25 2015

第 2 条，共 7 条

标题: [Rising Again: Opportunities and Challenges for Platinum-Free Electrocatalysts](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=10)

作者: Abbas, Muhammad A.; Bang, Jin Ho

来源出版物: [CHEMISTRY OF MATERIALS](javascript:;)  卷: 27   期: 21   页: 7218-7235   出版年: NOV 10 2015

第 3 条，共 7 条

标题: [Carbon Nanohorn-Derived Graphene Nanotubes as a Platinum-Free Fuel Cell Cathode](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=11)

作者: Unni, Sreekuttan M.; Illathvalappil, Rajith; Bhange, Siddheshwar N.; Puthenpediakkal, Hasna; Kurungot, Sreekumar

来源出版物: [ACS Applied Materials & Interfaces](javascript:;)  卷: 7   期: 43   页: 24256-24264   出版年: NOV 4 2015

第 4 条，共 7 条

标题: [Carbon Nanotubes for Dye-Sensitized Solar Cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=20)

作者: Batmunkh, Munkhbayar; Biggs, Mark J.; Shapter, Joseph G.

来源出版物: [SMALL](javascript:;)  卷: 11   期: 25   页: 2963-2989   出版年: JUL 1 2015

第 5 条，共 7 条

标题: [Cobalt Nanoparticles Embedded in Nitrogen-Doped Carbon for the Hydrogen Evolution Reaction](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=24)

作者: Fei, Huilong; Yang, Yang; Peng, Zhiwei; Ruan, Gedeng; Zhong, Qifeng; Li, Lei; Samuel, Errol L. G.; Tour, James M.

来源出版物: [ACS APPLIED MATERIALS & INTERFACES](javascript:;)  卷: 7   期: 15   页: 8083-8087   出版年: APR 22 2015

第 6 条，共 7 条

标题: [Crystalline poly(triazine imide) based g-CN as an efficient electrocatalyst for counter electrodes of dye- sensitized solar cells using a triiodide/iodide redox electrolyte](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=29)

作者: Lee, Woo-ram; Jun, Young-Si; Park, Jihee; Stucky, Galen D.

来源出版物: [JOURNAL OF MATERIALS CHEMISTRY A](javascript:;)  卷: 3   期: 48   页: 24232-24236   出版年: 2015

第 7 条，共 7 条

标题: [Influence of earth-abundant bimetallic (Fe-Ni) nanoparticle-embedded CNFs as a low-cost counter electrode material for dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=37)

作者: Saranya, K.; Subramania, A.; Sivasankar, N.

来源出版物: [RSC ADVANCES](javascript:;)  卷: 5   期: 54   页: 43611-43619   出版年: 2015

**二、引用论文第一产权单位为国内机构**

第 1 条，共 32 条

标题: [Cobalt sulfide decorated polyaniline complex counter electrodes for efficient dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=4)

作者: Yang, Peizhi; Duan, Jialong; Tang, Qunwei

来源出版物: [ELECTROCHIMICA ACTA](javascript:;)  卷: 184   页: 64-69   出版年: DEC 1 2015

第 2 条，共 32 条

标题: [Understanding the catalytic behaviour of NiM ( M = Pt, Ru, Pd) counter electrode electrocatalysts in liquid-junction dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=5)

作者: Yang, Peizhi; Ma, Chunqing; Tang, Qunwei

来源出版物: [ELECTROCHIMICA ACTA](javascript:;)  卷: 184   页: 226-232   出版年: DEC 1 2015

第 3 条，共 32 条

标题: C[obalt selenide/tin selenide hybrid used as a high efficient counter electrode for dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=6)

作者: Jia, Jinbiao; Wu, Jihuai; Dong, Jia; Zhou, Pei; Wu, Shaoyun; Lin, Jianming

来源出版物: JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS卷: 26    页: 10102-10108   出版年: DEC 2015

第 4 条，共 32 条

标题: [Cost-effective counter electrode electrocatalysts from iron@palladium and iron@platinum alloy nanospheres for dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=7)

作者: Tang, Qunwei; Liu, Juan; Zhang, Huihui; He, Benlin; Yu, Liangmin

来源出版物: [JOURNAL OF POWER SOURCES](javascript:;)  卷: 297   页: 1-8   出版年: NOV 30 2015

第 5 条，共 32 条

标题: [Robust counter electrodes from nanoporous NiM (M = Pt, Pd) alloys for dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=9)

作者: Yang, Peizhi; Tang, Qunwei

来源出版物: [ELECTROCHIMICA ACTA](javascript:;)  卷: 182   页: 827-833   出版年: NOV 10 2015

第 6 条，共 32 条

标题: [Effect of ammonia on electrodeposition of cobalt sulfide and nickel sulfide counter electrodes for dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=12)

作者: Huo, Jinghao; Wu, Jihuai; Zheng, Min; Tu, Yongguang; Lan, Zhang

来源出版物: [ELECTROCHIMICA ACTA](javascript:;)  卷: 180   页: 574-580   出版年: OCT 20 2015

第 7 条，共 32 条

标题: [Efficient Counter Electrode Manufactured from Ag2S Nanocrystal Ink for Dye-Sensitized Solar Cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=13)

作者: He, Qingquan; Huang, Shoushuang; Zai, Jiantao; Tang, Nianqi; Li, Bo; Qiao, Qiquan; Qian, Xuefeng

来源出版物: [CHEMISTRY-A EUROPEAN JOURNAL](javascript:;)  卷: 21   期: 43   页: 15153-15157   出版年: OCT 19 2015

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标题: [Dynamics Investigation of Graphene Frameworks-Supported Pt Nanoparticles as Effective Counter Electrodes for Dye-Sensitized Solar Cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=14)

作者: Zhu, Yanyan; Cui, Huijuan; Jia, Suping; Zheng, Jianfeng; Wang, Zhijian; Zhu, Zhenping

来源出版物: [ELECTROCHIMICA ACTA](javascript:;)  卷: 178   页: 658-664   出版年: OCT 1 2015

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标题: [Dissolution Engineering of Platinum Alloy Counter Electrodes in Dye-Sensitized Solar Cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=15)

作者: Tang, Qunwei; Zhang, Huihui; Meng, Yuanyuan; He, Benlin; Yu, Liangmin

来源出版物: [ANGEWANDTE CHEMIE-INTERNATIONAL EDITION](javascript:;)  卷: 54   期: 39   特刊: SI   页: 11448-11452   出版年:SEP 21 2015

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标题: [Nitrogen-Doped Porous Carbons As Electrode Materials for High-Performance Supercapacitor and Dye-Sensitized Solar Cell](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=16)

作者: Wang, Lan; Gao, Zhiyong; Chang, Jiuli; Liu, Xiao; Wu, Dapeng; Xu, Fang; Guo, Yuming; Jiang, Kai

来源出版物: [ACS APPLIED MATERIALS & INTERFACES](javascript:;)  卷: 7   期: 36   页: 20234-20244   出版年: SEP 16 2015

第 11 条，共 32 条

标题: [MOFs-Templated Co@Pd Core Shell NPs Embedded in N-Doped Carbon Matrix with Superior Hydrogenation Activities](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=17)

作者: Shen, Kui; Chen, Liang; Long, Jilan; Zhong, Wei; Li, Yingwei

来源出版物: [ACS CATALYSIS](javascript:;)  卷: 5   期: 9   页: 5264-5271   出版年: SEP 2015

第 12 条，共 32 条

标题: [3D hierarchical FeSe2 microspheres: Controlled synthesis and applications in dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=19)

作者: Huang, Shoushuang; He, Qingquan; Chen, Wenlong; Zai, Jiantao; Qiao, Qiquan; Qian, Xuefeng

来源出版物: [NANO ENERGY](javascript:;)  卷: 15   页: 205-215   出版年: JUL 2015

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标题: [Bifacial dye-sensitized solar cells with transparent cobalt selenide alloy counter electrodes](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=21)

作者: Duan, Yanyan; Tang, Qunwei; He, Benlin; Zhao, Zhiyuan; Zhu, Ling; Yu, Liangmin

来源出版物: [JOURNAL OF POWER SOURCES](javascript:;)  卷: 284   页: 349-354   出版年: JUN 15 2015

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标题: [Nitrogen-doped ordered cubic mesoporous carbons as metal-free counter electrodes for dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=23)

作者: Chen, Ming; Shao, Leng-Leng; Liu, Yu-Ping; Ren, Tie-Zhen; Yuan, Zhong-Yong

来源出版物: [JOURNAL OF POWER SOURCES](javascript:;)  卷: 283   页: 305-313   出版年: JUN 1 2015

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标题: [The Role of Mott-Schottky Heterojunctions in Ag-Ag8SnS6 as Counter Electrodes in Dye-Sensitized Solar Cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=25)

作者: He, Qingquan; Huang, Shoushuang; Wang, Cheng; Qiao, Qiquan; Liang, Na; Xu, Miao; Chen, Wenlong; Zai, Jiantao; Qian, Xuefeng

来源出版物: [CHEMSUSCHEM](javascript:;)  卷: 8   期: 5   页: 817-820   出版年: MAR 2015

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标题: [Bamboo-like Carbon Nanotube/Fe3C Nanoparticle Hybrids and Their Highly Efficient Catalysis for Oxygen Reduction](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=27)

作者: Yang, Wenxiu; Liu, Xiangjian; Yue, Xiaoyu; Jia, Jianbo; Guo, Shaojun

来源出版物: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY卷: 137 页: 1436-1439   出版年: FEB 4 2015

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标题: [An avenue of sealing liquid electrolyte in flexible dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=28)

作者: Duan, Yanyan; Tang, Qunwei; Li, Ru; He, Benlin; Yu, Liangmin

来源出版物: [JOURNAL OF POWER SOURCES](javascript:;)  卷: 274   页: 304-309   出版年: JAN 15 2015

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标题: [Review-Recent Progress in Electrocatalysts for Oxygen Reduction Suitable for Alkaline Anion Exchange Membrane Fuel Cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=30)

作者: He, Qinggang; Cairns, Elton J.

来源出版物: [JOURNAL OF THE ELECTROCHEMICAL SOCIETY](javascript:;)卷:162 页:F1504-F1539   出版年: 2015

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标题: [Efficient Ag8GeS6 counter electrode prepared from nanocrystal ink for dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=31)

作者: He, Qingquan; Qian, Tianyue; Zai, Jiantao; Qiao, Qiquan; Huang, Shoushuang; Li, Yiran; Wang, Min

来源出版物: [JOURNAL OF MATERIALS CHEMISTRY A](javascript:;)  卷: 3   期: 40   页: 20359-20365   出版年: 2015

第 20 条，共 32 条

标题: [A low-cost cementite (Fe3C) nanocrystal@ N-doped graphitic carbon electrocatalyst for efficient oxygen reduction](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=32)

作者: Wu, Tianxing; Zhang, Haimin; Zhang, Xian; Zhang, Yunxia; Zhao, Huijun; Wang, Guozhong

来源出版物: [PHYSICAL CHEMISTRY CHEMICAL PHYSICS](javascript:;)  卷: 17 页: 27527-27533   出版年: 2015

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标题: [Ultrafast electrochemical preparation of graphene/CoS nanosheet counter electrodes for efficient dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=33)

作者: Zhu, Chongyang; Min, Huihua; Xu, Feng; Chen, Jing; Dong, Hui; Tong, Ling; Zhu, Yimei; Sun, Litao

来源出版物: [RSC ADVANCES](javascript:;)  卷: 5   期: 104   页: 85822-85830   出版年: 2015

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标题: [Efficient charge-transport in hybrid lead iodide perovskite solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=34)

作者: Zhao, Jinjin; Wang, Peng; Wei, Liyu; Liu, Zhenghao; Fang, Xueqian; Liu, Xianglin; Ren, Deliang; Mai, Yaohua

来源出版物: [DALTON TRANSACTIONS](javascript:;)  卷: 44   期: 38   页: 16914-16922   出版年: 2015

第 23 条，共 32 条

标题: [A strategy for breaking the MOF template to obtain small-sized and highly dispersive polyoxometalate clusters loaded on solid films](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=35)

作者: Li, Jian-Sheng; Sang, Xiao-Jing; Chen, Wei-Lin; Zhang, Lan-Cui; Zhu, Zai-Ming; Li, Yang-Guang; Su, Zhong-Min; Wang, En-Bo

来源出版物: [JOURNAL OF MATERIALS CHEMISTRY A](javascript:;)  卷: 3   期: 28   页: 14573-14577   出版年: 2015

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标题: [Enhanced photocurrent by the co-sensitization of ZnO with dye and CuInSe nanocrystals](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=36)

作者: Zhao, Jinjin; Wang, Peng; Wei, Liyu; Liu, Zhenghao; Zhang, Jiangbin; Si, Huayan; Mai, Yaohua; Fang, Xueqian; Liu, Xianglin; Ren, Deliang

来源出版物: [DALTON TRANSACTIONS](javascript:;)  卷: 44   期: 28   页: 12516-12521   出版年: 2015

第 25 条，共 32 条

标题: [The role of Mott-Schottky heterojunctions in PtCo-Cu2ZnGeS4 as counter electrodes in dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=38)

作者: Huang, Shoushuang; He, Qingquan; Zai, Jiantao; Wang, Min; Li, Xiaomin; Li, Bo; Qian, Xuefeng

来源出版物: [CHEMICAL COMMUNICATIONS](javascript:;)  卷: 51   期: 43   页: 8950-8953   出版年: 2015

第 26 条，共 32 条

标题: [SnX (X = S, Se) thin films as cost-effective and highly efficient counter electrodes for dye-sensitized solar cells](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=39)

作者: Liu, Feng; Zhu, Jun; Xu, Yafeng; Zhou, Li; Li, Yi; Hu, Linhua; Yao, Jianxi; Dai, Songyuan

来源出版物: [CHEMICAL COMMUNICATIONS](javascript:;)  卷: 51   期: 38   页: 8108-8111   出版年: 2015

第 27 条，共 32 条

标题: [Discriminative modulation of the highest occupied molecular orbital energies of graphene and carbon nanotubes induced by charging](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=42)

作者: Yang, Hongping; Yam, Chi-yung; Zhang, Aihua; Xu, Zhiping; Luo, Jun; Zhu, Jing

来源出版物: PHYSICAL CHEMISTRY CHEMICAL PHYSICS 卷: 17 页: 7248-7254   出版年: 2015

第 28 条，共 32 条

标题: [Synthesis of FeCo nanocrystals encapsulated in nitrogen-doped graphene layers for use as highly efficient catalysts for reduction reactions](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=43)

作者: Hu, Lin; Zhang, Ruirui; Wei, Lingzhi; Zhang, Fapei; Chen, Qianwang

来源出版物: [NANOSCALE](javascript:;)  卷: 7   期: 2   页: 450-454   出版年: 2015

第 29 条，共 32 条

标题: [7.35% Efficiency rear-irradiated flexible dye-sensitized solar cells by sealing liquid electrolyte in a groove](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=8&SID=2BMA8ymqGDVcQS17aTe&page=1&doc=44)

作者: Wang, Xiaopeng; Tang, Qunwei; He, Benlin; Lia, Ru; Yu, Liangmin

来源出版物: [CHEMICAL COMMUNICATIONS](javascript:;)  卷: 51   期: 3   页: 491-494   出版年: 2015

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