大连化物所科技论文奖励申报表

（近期热点论文奖）

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **论文题目** | [Highly efficient photocatalysts constructed by rational assembly of dual-cocatalysts separately on different facets of BiVO4](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=T17bUrLZfbgmgrsXPSQ&page=1&doc=9) | | | | |
| **作者（英文）** | Li Rengui, Han Hongxian, Zhang Fuxiang, Wang Donge, Li Can | | | | |
| **作者（中文）** | 李仁贵，韩洪宪，章福祥，王冬娥，李灿 | | | | |
| **期刊名称** | Energy & Environmental Science | | | | |
| **发表日期** | 2014年4月 | **卷** | **7** | **起止页码** | 1369-1376 |
| **总引用次数** | **43** | | | **他引次数** | 40 |
| **填表人** | 我保证填写内容的真实性，若填报失实和违反管理办法，本人将承担相关责任。  **签字 年 月 日** | | | | |
| **通讯作者** | 我保证申报内容的真实性，若填报失实和违反管理办法，本人将承担相关责任。  **签字 年 月 日** | | | | |
| **研究组长** | 我已按管理办法和申报说明对申报内容进行了审核，保证申报内容的真实性，若填报失实和违反管理办法，本人将承担全部责任。  **签字 年 月 日** | | | | |

**说明**：1、申请本年度近期热点论文奖的论文发表时间为2013-2014年；2、引用检索数库为Web of Science数据库核心合集的SCI-E，他引次数须超过25次；3、引用数据检索截止时间为2014年12月31日。4、他引：是指剔除了申报奖励论文（即被引用论文）所有作者的全部引用文献。例：某篇申报奖励论文有作者a、b、c、d、e，他引是指引用此篇论文的所有文献作者中，不能有a、b、c、d、e的任何一位。

**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 9 条

标题: Electrostatically Assembled CdS-Co3O4 Nanostructures for Photo-assisted Water Oxidation and Photocatalytic Reduction of Dye Molecules

作者: Yehezkeli, Omer; de Oliveira, Debora R. B.; Cha, Jennifer N.

来源出版物: SMALL

卷: 11 期: 6 页: 668-674 出版年: FEB 11 2015

第2 条，共 9 条

标题: Faceted Titania Nanocrystals Doped with Indium Oxide Nanoclusters As a Superior Candidate for Sacrificial Hydrogen Evolution without Any Noble-Metal Cocatalyst under Solar Irradiation

作者: Amoli, Vipin; Sibi, Malayil Gopalan; Banerjee, Biplab; 等.

来源出版物: ACS APPLIED MATERIALS & INTERFACES

卷: 7 期: 1 页: 810-822 出版年: JAN 14 2015

第3条，共 9 条

标题: Electrospun Cr-doped Bi4Ti3O12/Bi2Ti2O7 heterostructure fibers with enhanced visible-light photocatalytic properties

作者: Shi, Hongfei; Tan, Huaqiao; Zhu, Wan-bin; 等.

来源出版物: JOURNAL OF MATERIALS CHEMISTRY A

卷: 3 期: 12 页: 6586-6591 出版年: 2015

第4 条，共 9 条

标题: The promotion effect of surface negative electrostatic field on the photogenerated charge separation of BiVO4 and its contribution to the enhanced PEC water oxidation

作者: Xie, Mingzheng; Bian, Ji; Humayun, Muhammad; 等.

来源出版物: CHEMICAL COMMUNICATIONS

卷: 51 期: 14 页: 2821-2823 出版年: 2015

第5 条，共 9 条

标题: The orientation dependence of the photochemical reactivity of BiVO4

作者: Munprom, Ratiporn; Salvador, Paul A.; Rohrer, Gregory S.

来源出版物: JOURNAL OF MATERIALS CHEMISTRY A

卷: 3 期: 5 页: 2370-2377 出版年: 2015

第6 条，共 9 条

标题: Behavior and Energy States of Photogenerated Charge Carriers on Pt- or CoOx-Loaded LaTiO2N Photocatalysts: Time-Resolved Visible to Mid-Infrared Absorption Study

作者: Yamakata, Akira; Kawaguchi, Masayuki; Nishimura, Naoyuki; 等.

来源出版物: JOURNAL OF PHYSICAL CHEMISTRY C

卷: 118 期: 41 页: 23897-24006 出版年: OCT 16 2014

第7 条，共 9 条

标题: Equilibrating the Plasmonic and Catalytic Roles of Metallic Nanostructures in Photocatalytic Oxidation over Au-Modified CeO2

作者: Jiang, Dong; Wang, Wenzhong; Sun, Songmei; 等.

来源出版物: ACS CATALYSIS

卷: 5 期: 2 页: 613-621 出版年: FEB 2015

第8 条，共 9 条

标题: Light Induced Carbon Dioxide Reduction by Water at Binuclear ZrOCoII Unit Coupled to Ir Oxide Nanocluster Catalyst

作者: Kim, Wooyul; Yuan, Guangbi; McClure, Beth Anne; 等.

来源出版物: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

卷: 136 期: 31 页: 11034-11042 出版年: AUG 6 2014

第9条，共 9 条

标题: Limiting factors for photochemical charge separation in BiVO4/Co3O4, a highly active photocatalyst for water oxidation in sunlight

作者: Wang, Jiarui; Osterloh, Frank E.

来源出版物: JOURNAL OF MATERIALS CHEMISTRY A

卷: 2 期: 24 页: 9405-9411 出版年: 2014

**二、引用论文第一产权单位为国内机构**

第1 条，共 31 条

标题: Semiconductor heterojunction photocatalysts: design, construction, and photocatalytic performances

作者: Wang, Huanli; Zhang, Lisha; Chen, Zhigang; 等.

来源出版物: CHEMICAL SOCIETY REVIEWS

卷: 43 期: 15 页: 5234-5244 出版年: AUG 7 2014

第2 条，共 31 条

标题: One-dimensional Bi2O3 QD-decorated BiVO4 nanofibers: electrospinning synthesis, phase separation mechanism and enhanced photocatalytic performance

作者: Lv, Chade; Chen, Gang; Sun, Jingxue; 等.

来源出版物: RSC ADVANCES

卷: 5 期: 5 页: 3767-3773 出版年: 2015

第 3 条，共 31 条

标题: Promotion of multi-electron transfer for enhanced photocatalysis: A review focused on oxygen reduction reaction

作者: Wang, Changhua; Zhang, Xintong; Liu, Yichun

来源出版物: APPLIED SURFACE SCIENCE

卷: 358 页: 28-45 子辑: A 出版年: DEC 15 2015

第 4 条，共 31 条

标题: Dramatic improvement of photocatalytic activity for N-doped Bi2O3/g-C3N4 composites

作者: Xue, Song; Hou, Xiaoyi; Xie, Wenhe; 等.

来源出版物: MATERIALS LETTERS

卷: 161 页: 640-643 出版年: DEC 15 2015

第 5 条，共 31 条

标题: Synthesis of Pt/BiFeO3 heterostructured photocatalysts for highly efficient visible-light photocatalytic performances

作者: Niu, Feng; Chen, Da; Qin, Laishun; 等.

来源出版物: SOLAR ENERGY MATERIALS AND SOLAR CELLS

卷: 143 页: 386-406 出版年: DEC 2015

第 6 条，共 31 条

标题: A simple route to significant enhancement of photocatalytic water oxidation on BiVO4 by heterojunction with SiC

作者: Wang, Da; Guo, Zhongnan; Peng, Yuan; 等.

来源出版物: CHEMICAL ENGINEERING JOURNAL

卷: 281 页: 102-108 出版年: DEC 1 2015

第7 条，共31 条

标题: Fabrication of BiVO4 nanoplates with active facets on graphene sheets for visible-light photocatalyst

作者: Li, Yao; Sun, Zhihua; Zhu, Shenmin; 等.

来源出版物: CARBON

卷: 94 页: 599-606 出版年: NOV 2015

第8 条，共 31 条

标题: Hexahedron Prism-Anchored Octahedronal CeO2: Crystal Facet-Based Homojunction Promoting Efficient Solar Fuel Synthesis

作者: Li, Ping; Zhou, Yong; Zhao, Zongyan; 等.

来源出版物: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

卷: 137 期: 30 页: 9547-9550 出版年: AUG 5 2015

第9 条，共 31 条

标题: Heteroepitaxial approach to explore charge dynamics across Au/BiVO4 interface for photoactivity enhancement

作者: Chien Nguyen Van; Chang, Wei Sea; Chen, Jhih-Wei; 等.

来源出版物: NANO ENERGY

卷: 15 页: 625-633 出版年: JUL 2015

第10 条，共 31 条

标题: Facile hydrothermal-carbonization approach to carbon-modified BiVO4 composites with enhanced photocatalytic activity

作者: Tang, Jianting; Song, Beibei; Deng, Qian; 等.

来源出版物: MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING

卷: 35 页: 90-95 出版年: JUL 2015

第11 条，共 31 条

标题: Hierarchically Z-scheme photocatalyst of Ag@AgCl decorated on BiVO4 (040) with enhancing photoelectrochemical and photocatalytic performance

作者: Li, Hongyan; Sun, Yingjuan; Cai, Bin; 等.

来源出版物: APPLIED CATALYSIS B-ENVIRONMENTAL

卷: 170 页: 206-214 出版年: JUL 2015

第12 条，共 31 条

标题: Formation of Bi2WO6 Bipyramids with Vacancy Pairs for Enhanced Solar-Driven Photoactivity

作者: Zhang, Gong; Hu, Ziyu; Sun, Meng; 等.

来源出版物: ADVANCED FUNCTIONAL MATERIALS

卷: 25 期: 24 页: 3726-3734 出版年: JUN 24 2015

第13 条，共 31 条

标题: One-step uniformly hybrid carbon quantum dots with high-reactive TiO2 for photocatalytic application

作者: Wang, Wei; Ni, Yaru; Xu, Zhongzi

来源出版物: JOURNAL OF ALLOYS AND COMPOUNDS

卷: 622 页: 303-308 出版年: FEB 15 2015

第14 条，共 31条

标题: SDS-assisted solvothermal synthesis of rose-like BiOBr partially enclosed by {111} facets and enhanced visible-light photocatalytic activity

作者: Zhao, Yang; Yu, Tao; Tan, Xin; 等.

来源出版物: DALTON TRANSACTIONS

卷: 44 期: 47 页: 20475-20483 出版年: 2015

第15 条，共 31 条

标题: The function-led design of Z-scheme photocatalytic systems based on hollow carbon nitride semiconductors

作者: Zheng, Dandan; Pang, Chenyang; Wang, Xinchen

来源出版物: CHEMICAL COMMUNICATIONS

卷: 51 期: 98 页: 17467-17470 出版年: 2015

第16 条，共 31 条

标题: Epitaxial growth of Bi2S3 nanowires on BiVO4 nanostructures for enhancing photoelectrochemical performance

作者: Liu, Canjun; Li, Jie; Li, Yaomin; 等.

来源出版物: RSC ADVANCES

卷: 5 期: 88 页: 71692-71698 出版年: 2015

第17 条，共 31 条

标题: Ag3PO4 nanoparticles loaded on 3D flower-like spherical MoS2: a highly efficient hierarchical heterojunction photocatalyst

作者: Wang, Li; Chai, Yuanyuan; Ren, Jia; 等.

来源出版物: DALTON TRANSACTIONS

卷: 44 期: 33 页: 14625-14634 出版年: 2015

第18 条，共 31 条

标题: Tuning of the crystal engineering and photoelectrochemical properties of crystalline tungsten oxide for optoelectronic device applications

作者: Zheng, Jin You; Haider, Zeeshan; Thanh Khue Van; 等.

来源出版物: CRYSTENGCOMM

卷: 17 期: 32 页: 6070-6093 出版年: 2015

第19条，共 31 条

标题: Synthesis and phase transfer of well-defined BiVO4 nanocrystals for photocatalytic water splitting

作者: Yehezkeli, Omer; Harguindey, Albert; Domaille, Dylan W.; 等.

来源出版物: RSC ADVANCES

卷: 5 期: 72 页: 58755-58759 出版年: 2015

第20 条，共 31 条

标题: Rational design of a charge shunt: modification upon crystal facet engineering of semiconductor photocatalysts

作者: Feng, Wenhui; Weng, Sunxian; Zheng, Zuyang; 等.

来源出版物: CHEMICAL COMMUNICATIONS

卷: 51 期: 56 页: 11186-11189 出版年: 2015

第21 条，共 31 条

标题: An effective quaternary nano-sized Er3+:Y3Al5O12/Pt-PdS/ZnS visible-light photocatalyst for H-2 production

作者: Lu, Chunxiao; Chen, Yang; Li, Yun; 等.

来源出版物: RSC ADVANCES

卷: 5 期: 67 页: 54769-54776 出版年: 2015

第22 条，共 31 条

标题: Enhanced photocatalytic H-2 evolution on CdS with cobalt polyoxotungstosilic and MoS2/graphene as noble-metal-free dual co-catalysts

作者: Liu, Miaomiao; Li, Fengyan; Sun, Zhixia; 等.

来源出版物: RSC ADVANCES

卷: 5 期: 59 页: 47314-47318 出版年: 2015

第23 条，共 31 条

标题: Shell-engineering of hollow g-C3N4 nanospheres via copolymerization for photocatalytic hydrogen evolution

作者: Zheng, Dandan; Pang, Chenyang; Liu, Yuxing; 等.

来源出版物: CHEMICAL COMMUNICATIONS

卷: 51 期: 47 页: 9706-9709 出版年: 2015

第24 条，共 31 条

标题: Low temperature synthesis of rutile TiO2 single crystal nanorods with exposed (002) facets and their decoration with gold nanoparticles for photocatalytic applications

作者: Bu, Lijuan; Yang, Wenjing; Ming, Hai

来源出版物: RSC ADVANCES

卷: 5 期: 56 页: 45122-45128 出版年: 2015

第25 条，共 31 条

标题: Spectacular photocatalytic hydrogen evolution using metal-phosphide/CdS hybrid catalysts under sunlight irradiation

作者: Cao, Shuang; Chen, Yong; Wang, Chuan-Jun; 等.

来源出版物: CHEMICAL COMMUNICATIONS

卷: 51 期: 41 页: 8708-8711 出版年: 2015

第26 条，共 31 条

标题: Surfactant-free hydrothermal fabrication of monoclinic BiVO4 photocatalyst with oxygen vacancies by copper doping

作者: Li, Dezhi; Wang, Wenzhong; Jiang, Dong; 等.

来源出版物: RSC ADVANCES

卷: 5 期: 19 页: 14374-14381 出版年: 2015

第27 条，共 31 条

标题: A special Ag/AgCl network-nanostructure for selective catalytic degradation of refractory chlorophenol contaminants

作者: Huang, Zaidi; Wen, Ming; Wu, Dandan; 等.

来源出版物: RSC ADVANCES

卷: 5 期: 16 页: 12261-12267 出版年: 2015

第28 条，共 31 条

标题: Cubic In2O3 Microparticles for Efficient Photoelectrochemical Oxygen Evolution

作者: Meng, Ming; Wu, Xinglong; Zhu, Xiaobin; 等.

来源出版物: JOURNAL OF PHYSICAL CHEMISTRY LETTERS

卷: 5 期: 24 页: 4298-4304 出版年: DEC 18 2014

第29 条，共 31 条

标题: Effective Visible-Excited Charge Separation in Silicate-Bridged ZnO/BiVO4 Nanocomposite and Its Contribution to Enhanced Photocatalytic Activity

作者: Fu, Xuedong; Xie, Mingzheng; Luan, Peng; 等.

来源出版物: ACS APPLIED MATERIALS & INTERFACES

卷: 6 期: 21 页: 18550-18557 出版年: NOV 12 2014

第30 条，共 31 条

标题: Nanostructured bismuth vanadate-based materials for solar-energy-driven water oxidation: a review on recent progress

作者: Huang, Zhen-Feng; Pan, Lun; Zou, Ji-Jun; 等.

来源出版物: NANOSCALE

卷: 6 期: 23 页: 14044-14063 出版年: 2014

第31条，共 31 条

标题: A new type of carbon nitride-based polymer composite for enhanced photocatalytic hydrogen production

作者: Xing, Zheng; Chen, Zhigang; Zong, Xu; 等.

来源出版物: CHEMICAL COMMUNICATIONS

卷: 50 期: 51 页: 6762-6764 出版年: 2014

…………………………..