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| --- | --- |
| 批准立项年份 | 2003 |
| 通过验收年份 | 2007 |

**教育部重点实验室年度报告**

（2015年1月—— 2015年12月）

**实验室名称：结构可控先进功能材料及其制备教育部重点实验室**

**实验室主任：田禾**

**实验室联系人/联系电话：马骧 64252288**

**E-mail地址：maxiang@ecust.edu.cn**

**依托单位名称：华东理工大学**

**依托单位联系人/联系电话：曹学 18917102692**

2016年3 月 25 日填报

填写说明

一、年度报告中各项指标只统计当年产生的数据，起止时间为1月1日至12月31日。年度报告的表格行数可据实调整，不设附件，请做好相关成果支撑材料的存档工作。年度报告经依托高校考核通过后，于次年3月31日前在实验室网站公开。

二、**“研究水平与贡献”**栏中，各项统计数据均为本年度由实验室人员在本实验室完成的重大科研成果，以及通过国内外合作研究取得的重要成果。其中：

1.**“论文与专著”**栏中，成果署名须有实验室。专著指正式出版的学术著作，不包括译著、论文集等。未正式发表的论文、专著不得统计。

2. **“奖励”**栏中，取奖项排名最靠前的实验室人员，按照其排名计算系数。系数计算方式为：1/实验室最靠前人员排名。例如：在某奖项的获奖人员中，排名最靠前的实验室人员为第一完成人，则系数为1；若排名最靠前的为第二完成人，则系数为1/2=0.5。实验室在年度内获某项奖励多次的，系数累加计算。部委（省）级奖指部委（省）级对应国家科学技术奖相应系列奖。一个成果若获两级奖励，填报最高级者。未正式批准的奖励不统计。

3.**“承担任务研究经费”**指本年度内实验室实际到账的研究经费、运行补助费和设备更新费。

4.**“发明专利与成果转化”**栏中，某些行业批准的具有知识产权意义的国家级证书（如：新医药、新农药、新软件证书等）视同发明专利填报。国内外同内容专利不得重复统计。

5.**“标准与规范”**指参与制定国家标准、行业/地方标准的数量。

三、**“研究队伍建设”**栏中：

1.除特别说明统计年度数据外，均统计相关类型人员总数。固定人员指高等学校聘用的聘期2年以上的全职人员；流动人员指访问学者、博士后研究人员等。

2.**“40岁以下”**是指截至当年年底，不超过40周岁。

3.**“科技人才”**和**“国际学术机构任职”**栏，只统计固定人员。

4.**“国际学术机构任职”**指在国际学术组织和学术刊物任职情况。

四、**“开放与运行管理”**栏中：

1.**“承办学术会议”**包括国际学术会议和国内学术会议。其中，国内学术会议是指由主管部门或全国性一级学会批准的学术会议。

2.**“国际合作项目”**包括实验室承担的自然科学基金委、科技部、外专局等部门主管的国际科技合作项目，参与的国际重大科技合作计划/工程（如：ITER、CERN等）项目研究，以及双方单位之间正式签订协议书的国际合作项目。

**一、简表**

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| **实验室名称** | | 结构可控先进功能材料及其制备教育部重点实验室 | | | | | | | | | |
| **研究方向** | | 研究方向1 | | 有机光电功能材料 | | | | | | | |
| 研究方向2 | | 多相分散系统的分子热力学和分子传递 | | | | | | | |
| 研究方向3 | | 催化功能材料的设计与制备 | | | | | | | |
| 研究方向4 | | 微生物采油调控技术及应用 | | | | | | | |
| 研究方向5 | | 特征污染物现场快速检测技术装备系统 | | | | | | | |
| 研究方向6 | | 复杂材料的介观结构及其演变 | | | | | | | |
| 研究方向7 | | 环境净化材料与清洁能量转换材料的设计、制备及应用 | | | | | | | |
| **实验室**  **主任** | 姓名 | 田禾 | | 研究方向 | | 有机光电功能材料 | | | | | |
| 出生日期 | 1962.07 | | 职称 | | 教授，院士 | | 任职时间 | | | 2003.11 |
| **实验室**  **副主任** | 姓名 | 王巧纯 | | 研究方向 | | 超分子光电功能材料 | | | | | |
| 出生日期 | 1976.04 | | 职称 | | 教授 | | 任职时间 | | | 2015.12 |
| **实验室**  **副主任** | 姓名 | 程毅 | | 研究方向 | | 应用化学 | | | | | |
| 出生日期 | 1976.04 | | 职称 | | 教授 | | 任职时间 | | | 2015.12 |
| **实验室**  **副主任** | 姓名 | 龚学庆 | | 研究方向 | | 理论计算化学 | | | | | |
| 出生日期 | 1976.04 | | 职称 | | 教授 | | 任职时间 | | | 2015.12 |
| **学术**  **委员会主任** | 姓名 | 胡英 | | 研究方向 | | 多相分散系统的分子热力学和分子传递 | | | | | |
| 出生日期 | 1934.06 | | 职称 | | 教授，院士 | | 任职时间 | | | 2003.11 |
| **研究水平与贡献** | 论文与专著 | 发表论文 | | SCI | | 240篇 | | EI | | | 篇 |
| 科技专著 | | 国内出版 | | 1部 | | 国外出版 | | | 5部 |
| 奖励 | 国家自然科学奖 | | 一等奖 | | 项 | | 二等奖 | | | 项 |
| 国家技术发明奖 | | 一等奖 | | 项 | | 二等奖 | | | 项 |
| 国家科学技术进步奖 | | 一等奖 | | 项 | | 二等奖 | | | 项 |
| 省、部级科技奖励 | | 一等奖 | | 项 | | 二等奖 | | | 2项 |
| 项目到账  总经费 | 3260万元 | | 纵向经费 | | 2950万元 | | 横向经费 | | | 310万元 |
| 发明专利与  成果转化 | 发明专利 | | 申请数 | | 项 | | 授权数 | | | 24项 |
| 成果转化 | | 转化数 | | 项 | | 转化总经费 | | | 万元 |
| 标准与规范 | 国家标准 | | 项 | | | | 行业/地方标准 | | | 项 |
| **研究队伍建设** | 科技人才 | 实验室固定人员 | | | 49人 | | 实验室流动人员 | | | | 人 |
| 院士 | | | 2人 | | 千人计划 | | | | 长期 人  短期 人 |
| 长江学者 | | | 特聘 5 人  讲座 人 | | 国家杰出青年基金 | | | | 6人 |
| 青年长江 | | | 人 | | 国家优秀青年基金 | | | | 1人 |
| 青年千人计划 | | | 人 | | 其他国家、省部级  人才计划 | | | | 16人 |
| 自然科学基金委创新群体 | | | 1个 | | 科技部重点领域创新团队 | | | | 个 |
| 国际学术  机构任职 | **姓名** | | | **任职机构或组织** | | | | | | **职务** |
| 田禾 | | | 国家自然科学基金委员会化学学部评审专家委员，国际期刊《Dyes and Pigments》主编，《Chemical Science》顾问编委，《Polymer Chemistry》顾问编委，中国感光学会理事，教育部科学技术委员会化学化工学部副主任 | | | | | |  |
| 卢冠忠 | | | 中国能源学会副理事长，中国稀土学会常务理事和催化专业委员会主任，中国稀土协作网副理事长，中国化学会催化专业委员会委员，中国化工学会化工新材料专业委员会常务理事，中国化工教育协会副理事长，中国化工高等教育学会副理事长。任《Current Catalysis》，《Recent Patentson Catalysis》，《The Open CatalysisJournal》，《Conference Papers inMaterials Science》，《Journal of RareEarths》，《Rare Metals》，《中国稀土学报》，《催化学报》，《燃料化学学报》，《无机材料学报》学术期刊的编委和常务编委。 | | | | | |  |
| 刘洪来 | | | 《化工学报》、《过程工程学报》、《Chinese J. Chem.》和《Frontier of Chem. Sci. Eng.》编委，《华东理工大学学报(自然科学版)》主编 | | | | | |  |
| 龙亿涛 | | | 国际期刊《Microchimica Acta》顾问编委，《Chemistry Central Journal》，《Theranostics》编委；《化学学报》编委；中国化学会有机分析委员会委员。 | | | | | |  |
| 牟伯中 | | | 国际期刊《Open Petrol. Eng. J.》顾问编委；《Int’l J. Petrol. Sci. Technol.》编委。 | | | | | |  |
| 朱为宏 | | | 国际期刊《Dyes and Pigments》编委，《影像科学与光化学》第六届、第七届编委，中国感光学会第八届理事会常务理事 | | | | | |  |
| 张金龙 | | | 《Res. Chem. Intermed.》副主编，《Applied Catalysis B: Enviromental》国际编委；《Inter. J. Photoenergy》客座主编；《J.Nanotechnology》客座编辑；《感光科学与光化学》编委 | | | | | |  |
| 施敏 | | | Wiley 杂志《ChemistryOpen》编委 | | | | | |  |
| 郭杨龙 | | | 中国化工学会化工新材料委员会委员，上海市稀土学会副理事长，上海市稀土协会理事，上海市化学化工学会催化专业委员会委员。 | | | | | |  |
| 郭耘 | | | 中国稀土学会理事；中国稀土学会催化专业委员会秘书长；科技部稀土材料重点专项总体专家组成员；科技部蓝天科技专项总体专家组成员；上海市稀土学会副理事长 | | | | | |  |
| 访问学者 | 国内 | | | 人 | | 国外 | | | | 人 |
| 博士后 | 本年度进站博士后 | | | 人 | | 本年度出站博士后 | | | | 2人 |
| **学科发展与人才培养** | 依托学科  (据实增删) | 学科1 | 应用化学 | | 学科2 | | 工业催化 | | | 学科3 | 物理化学 |
| 研究生培养 | 在读博士生 | | | 72人 | | 在读硕士生 | | | | 159人 |
| 承担本科课程 | 学时 | | | | | 承担研究生课程 | | | | 学时 |
| 大专院校教材 | 部 | | | | |  | | | |  |
| **开放与**  **运行管理** | 承办学术会议 | 国际 | 次 | | | | 国内  (含港澳台) | | 次 | | |
| 年度新增国际合作项目 | | | | | | 项 | | | | |
| 实验室面积 | | 3000 M2 | | 实验室网址 | | http://hyxy.ecust.edu.cn/s/230/t/256/main.htm | | | | |
| 主管部门年度经费投入 | | (直属高校不填)万元 | | 依托单位年度经费投入 | | | | 50万元 | | |

二**、研究水平与贡献**

**1、主要研究成果与贡献**

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| 结合研究方向，简要概述本年度实验室取得的重要研究成果与进展，包括论文和专著、标准和规范、发明专利、仪器研发方法创新、政策咨询、基础性工作等。总结实验室对国家战略需求、地方经济社会发展、行业产业科技创新的贡献，以及产生的社会影响和效益。  **论文与专著：**发表包括Chem. Rev.，Chem. Soc. Rev.，Angew. Chem. Int. Ed.; J. Am. Chem. Soc.，Adv. Mater.，ACS Nano.，Chem. Sci.，Chem. Commun.等国际一流期刊在内的SCI收录论文240篇，其中SCI影响因子大于5的文章102篇。   |  | **论文题目** | **作者** | **课题组** | **期刊名** | **年，卷（期）：页** | **SCI-IF** | | --- | --- | --- | --- | --- | --- | --- | | 1 | Photoresponsive Host–Guest Functional Systems | D.-H. Qu（曲大辉）, Q.-C. Wang（王巧纯）, Q.-W. Zhang, X. Ma（马骧）, H. Tian（田禾） | 田禾 | Chemical Reviews | 2015, 115, 7543-7588. | 46.5 | | 2 | Probing disease-related proteins with fluorogenic composite materials | X. P. He（贺晓鹏）, Y. Zang, T. D. James, J. Li and G. R. Chen（陈国荣） | 陈国荣 | Chemical Society Reviews | 2015, 44(13): 4239-4248. | 33.383 | | 3 | Fluorescent and colorimetric ion probes based on conjugated oligopyrroles | Y. B. Ding, Y. Y. Tang, W. H. Zhu and Y. S. Xie\* (解永树) | 解永树 | Chemical Society Reviews | 2015, 44(5): 1101-1112. | 33.383 | | 4 | Peptide self-assembly triggered by metal ions | R. F. Zou, Q. Wang, J. C. Wu, J. X. Wu, C. Schmuck and H. Tian（田禾） | 田禾 | Chemical Society Reviews | 2015, 44(15): 5200-5219. | 33.383 | | 5 | Building Biomedical Materials using Photochemical Bond Cleavage | C. Y. Bao（包春燕）, L. Y. Zhu（朱麟勇）, Q. N. Lin and H. Tian（田禾） | 朱麟勇 | Advanced Materials | 2015, 27(10): 1647-1662. | 17.493 | | 6 | Band Engineering in Core/Shell ZnTe/CdSe for Photovoltage and Efficiency Enhancement inExciplex Quantum Dot Sensitized Solar Cells | Shuang Jiao, Qing Shen, Ivan Mora-Sero, Jin Wang, Zhenxiao Pan, Ke Zhao, Yuki Kuga, Xinhua Zhong(钟新华）, and Juan Bisquert | 钟新华 | ACS NANO | 2015, 9(1): 908-915. | 12.881 | | 7 | Porphyrin Cosensitization for a Photovoltaic Efficiency of 11.5%: a Record for Non-Ruthenium Solar Cells Based on Iodine Electrolyte | Yongshu Xie\*(解永树), Yunyu Tang, Wenjun Wu, Yueqiang Wang, Jingchuan Liu, Xin Li, He Tian, and Wei-Hong Zhu\* | 解永树 | Journal of the American Chemical Society | 2015, 137(44), 14055–14058. | 12.113 | | 8 | Förster Resonance Energy Transfer Switchable Self-Assembled Micellar Nanoprobe: Ratiometric Fluorescent Trapping of Endogenous H2S Generation via Fluvastatin-Stimulated Upregulation | Chunchang Zhao (赵春常), Xiuli Zhang, Kaibin Li, Shaojia Zhu, Zhiqian Guo, Lili Zhang, Feiyi Wang, Qiang Fei, Sihang Luo, Ping Shi, He Tian（田禾）, and Wei-Hong Zhu（朱为宏） | 赵春常，朱为宏 | Journal of the American Chemical Society | 2015, 137, 8490-8498. | 12.113 | | 9 | Boosting Power Conversion Efficiencies of Quantum-Dot-Sensitized Solar Cells Beyond 8% by Recombination Control | K. Zhao, Z. X. Pan, I. Mora-Sero, E. Canovas, H. Wang, Y. Song, X. Q. Gong（龚学庆）, J. Wang, M. Bonn, J. Bisquert and X. H. Zhong（钟新华） | 钟新华 | Journal of the American Chemical Society | 2015, 137(16): 5602-5609. | 12.113 | | 10 | Unique Electronic and Structural Eﬀects in Vanadia/Ceria-Catalyzed Reactions | Xin-Ping Wu and Xue-Qing Gong（龚学庆） | 龚学庆 | Journal of the American Chemical Society | 2015, 137: 13228−13231. | 12.113 | | 11 | Excited-State Conformational/Electronic Responses of SaddleShaped N,N′‑Disubstituted-Dihydrodibenzo[a,c]phenazines: WideTuning Emission from Red to Deep Blue and White Light Combination | Zhiyun Zhang, Yu-Sin Wu, Kuo-Chun Tang, Chi-Lin Chen, Jr-Wei Ho, Jianhua Su, He Tian（田禾）, and Pi-Tai Chou | 田禾 | Journal of the American Chemical Society | 2015, 137: 8509−8520. | 12.113 | | 12 | Simultaneous Detection of Diverse Glycoligand-Receptor Recognitions Using a Single-Excitation, Dual-Emission Graphene Composite | D. K. Ji, G. R. Chen（陈国荣）, X. P. He（贺晓鹏） and H. Tian（田禾） | 陈国荣 | Advanced Functional Materials | 2015, 25(23): 3483-3487. | 11.805 | | 13 | Biocompatible Nanoparticles Based on Diketo-Pyrrolo-Pyrrole (DPP) with Aggregation-Induced Red/NIR Emission for In Vivo Two-Photon Fluorescence Imaging | Y. T. Gao, G. X. Feng, T. Jiang, C. C. Goh, L. G. Ng, B. Liu, B. Li, L. Yang, J. L. Hua（花建丽） and H. Tian（田禾） | 花建丽 | Advanced Functional Materials | 2015, 25(19): 2857-2866. | 11.805 | | 14 | Monitoring of Endogenous Hydrogen Sulfide in Living Cells UsingSurface-Enhanced Raman Scattering | Da-Wei Li, Lu-Lu Qu, Kai Hu, Yi-Tao Long,and He Tian | 龙亿涛 | Angewandte Chemie-International Edition | 2015, 54: 12758-12761. | 11.261 | | 15 | Dual-Mode Controlled Self-Assembly of TiO2 Nanoparticles Through a Cucurbit[8]uril-Enhanced Radical Cation Dimerization Interaction | Q. Zhang, D.-H. Qu（曲大辉）, Q.-C. Wang（王巧纯）, H. Tian（田禾） | 田禾 | Angewandte Chemie-International Edition | 2015, DOI: 10.1002/anie.201509071. | 11.261 | | 16 | Chiral Carbonaceous Nanotubes Modified with Titania Nanocrystals: Plasmon‐Free and Recyclable SERS Sensitivity | B. C. Qiu, M. Y. Xing (邢明阳）, Q. Y. Yi, J] L. Zhang (张金龙） | 张金龙 | Angewandte Chemie-International Edition | 2015, 127, 10789 –10793 | 11.261 | | 17 | Fluorescent In Situ Targeting Probes for Rapid Imaging of Ovarian-Cancer-Specific gamma-Glutamyltranspeptidase | F. Y. Wang, Y. Zhu, L. Zhou, L. Pan, Z. F. Cui, Q. Fei, S. H. Luo, D. Pan, Q. Huang, R. Wang, C. C. Zhao（赵春常）, H. Tian（田禾） and C. H. Fan | 赵春常 | Angewandte Chemie-International Edition | 2015, 54(25): 7349-7353. | 11.261 | | 18 | Far-Red and Near-IR AIE-Active Fluorescent Organic Nanoprobes with Enhanced Tumor-Targeting Efficacy: Shape-Specific Effects | A. D. Shao, Y. S. Xie, S. J. Zhu, Z. Q. Guo, S. Q. Zhu, J. Guo, P. Shi, T. D. James, H. Tian（田禾） and W. H. Zhu（朱为宏） | 朱为宏 | Angewandte Chemie-International Edition | 2015, 54(25): 7275-7280. | 11.261 | | 19 | CO Oxidation at Rutile TiO2(110): Role of Oxygen Vacancies and Titanium Interstitials | Y. Y. Yu and X. Q. Gong（龚学庆） | 龚学庆 | Acs Catalysis | 2015, 5(4): 2042-2050. | 9.312 | | 20 | A Highly Effective Catalyst of Sm-MnOx for the NH3‑SCR of NOx at Low Temperature: Promotional Role of Sm and Its Catalytic Performance | D. Meng, W. Zhan, Y. Guo, Y. Guo, L. Wang, and G. Lu（卢冠忠） | 卢冠忠 | Acs Catalysis | 2015, 5: 5973-5983 | 9.312 | | 21 | Diversity-Oriented Enantioselective Synthesis of Polycyclic Indole Derivatives Based on aza-Morita-Baylis-Hillman Reaction. | Yuning Gao, Qin Xu, Min Shi（施敏） | 施敏 | Acs Catalysis | 2015, *5*, 6608-6614 | 9.312 | | 22 | Dynamic tracking of pathogenic receptor expression of live cells using pyrenyl glycoanthraquinone-decorated graphene electrodes | X.-P. He（贺晓鹏）, B.-W. Zhu, Y. Zang, J. Li, G.-R. Chen（陈国荣）, H. Tian（田禾） and Y.-T. Long（龙亿涛） | 陈国荣 | Chemical Science | 2015, 6, 1996-2001 | 9.211 | | 23 | Possibility of designing catalysts beyond the traditional volcano curve: a theoretical framework for multi-phase surfaces | Z. Y. Wang, H. F. Wang（王海丰） and P. Hu | 王海丰 | Chemical Science | 2015, 6(10): 5703-5711. | 9.211 | | 24 | A dual-response BODIPY-based fluorescent probe for the discrimination of glutathione from cysteine and homocystein | Feiyi Wang, Li Zhou, Chunchang Zhao（赵春常）, Rui Wang, Qiang Fei, Sihang Luo, Zhiqian Guo, He Tian（田禾）, Weihong Zhu（朱为宏） | 赵春常，朱为宏 | Chemical Science | 2015, 6, 2584-2589. | 9.211 | | 25 | A Brown Mesoporous TiO2-x/MCF Composite with an Extremely High Quantum Yield of Solar Energy Photocatalysis for H-2 Evolution | M. Y. Xing, J. L. Zhang（张金龙）, B. C. Qiu, B. Z. Tian（田宝柱）, M. Anpo and M. Che | 张金龙 | Small | 2015, 11(16): 1920-1929. | 8.368 | | 26 | Niobate salts of organic base catalyzed chemical fixation of carbon dioxide with epoxides to form cyclic carbonates | Angjun Chen, Chen Chen, Yuhe Xiu, Xuerui Liu, Jizhong Chen, Li Guo, Ran Zhang and Zhenshan Hou\*（侯震山） | 侯震山 | Green Chemistry | 2015, 17: 1842–1852 | 8.020 | | 27 | Preparation of bio-based surfactants from glycerol and dodecanol by direct etherification | Zhaoyu Fan, Yan Zhao, Florentina Preda, Jean-Marc Clacens, Hui Shi, Limin Wang\*, Xiaoshuang Feng and Floryan De Campo | 王利民 | Green Chemistry | 2015, 17, 882-892 | 8.02 | | 28 | Energy-efficient production of 1-octanol from biomass-derived furfural-acetone in water | Q. N. Xia, Y. J. Xia, J. X. Xi, X. H. Liu and Y. Q. Wang（王艳芹） | 王艳芹 | Green Chemistry | 2015, 17(8): 4411-4417. | 8.02 | | 29 | Production of methyl levulinate from cellulose: selectivity and mechanism study | D. Q. Ding, J. X. Xi, J. J. Wang, X. H. Liu, G. Z. Lu（卢冠忠） and Y. Q. Wang（王艳芹） | 王艳芹 | Green Chemistry | 2015, 17(7): 4037-4044. | 8.02 | | 30 | Base-free aerobic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over a Pt/C–O–Mg catalyst | Xuewang Han, Liang Geng, Yong Guo, Rong Jia, Xiaohui Liu, Yongguang Zhang and Yanqin Wang | 王艳芹 | Green Chemistry | 2015, 18(7): 2853-2863. | 8.02 | | 31 | Pd/Nb2O5/SiO2 Catalyst for the Direct Hydrodeoxygenation of Biomass-Related Compounds to Liquid Alkanes under Mild Conditions | Y. Shao, Q. N. Xia, X. H. Liu, G. Z. Lu（卢冠忠） and Y. Q. Wang（王艳芹） | 王艳芹 | Chemsuschem | 2015, 8(10): 1761-1767. | 7.657 | | 32 | Capping Ligand-Induced Self-Assembly for Quantum Dot Sensitized Solar Cells | W. J. Li and X. H. Zhong（钟新华） | 钟新华 | Journal of Physical Chemistry Letters | 2015, 6(5): 796-806. | 7.458 | | 33 | Capping Ligand-Induced Self-Assembly for Quantum Dot Sensitized Solar Cells | Wenjie Li and Xinhua Zhong（钟新华） | 钟新华 | J. Phys. Chem. Lett. | 2015, 6： 796−806. | 7.458 | | 34 | Insight into quinoxaline containing D-π-A dyes for dye-sensitized solar cells with cobalt and iodine based electrolytes: the effect of π-bridge on the HOMO energy level and photovoltaic performance | Xing Li, Yue Hu, Irene Sanchez-Molina, Ying Zhou, Fengtao Yu, Saif A. Haque, Wenjun Wu, Jianli Hua (花建丽）, He Tian （田禾), and Neil Robertson | 花建丽 | Journal of Materials Chemistry A | 2015, 3, 21733–21743 | 7.443 | | 35 | Effect of bridging group configuration on photophysical and photovoltaic performance in dye-sensitized solar cells | Z. F. Wu, X. Li, J. Li, H. Agren, J. L. Hua（花建丽） and H. Tian（田禾） | 花建丽 | Journal of Materials Chemistry A | 2015, 3(27): 14325-14333. | 7.443 | | 36 | Dynamic Hydrophobic Hindrance Effect of Zeolite@Zeolitic Imidazolate Framework Composites for CO2 Capture in the Presence of Water | Fei Gao,a Yankai Li,a Zijun Bian,a Jun Hu\* and Honglai Liu\*（刘洪来） | 刘洪来 | Journal of Materials Chemistry A | 3, 2015: 8091-8097 | 7.443 | | 37 | Stöber-like method to synthesize ultralight, porous, stretchable Fe2O3/graphene aerogels for excellent performance in photo-Fenton reaction and electrochemical capacitors | B. C. Qiu, M. Y. Xing and J. L. Zhang（张金龙） | 张金龙 | Journal of Materials Chemistry A | 2015, 3, 12820-12827 | 7.443 | | 38 | Carbon dots modified mesoporous organosilica as an adsorbent for the removal of 2,4-dichlorophenol and heavy metal ions | L. Z. Wang（王灵芝）, C. Cheng, S. Tapas, J. Y. Lei, M. Matsuoka, J. L. Zhang（张金龙） and F. Zhang | 张金龙 | Journal of Materials Chemistry A | 2015, 3(25): 13357-13364. | 7.443 | | 39 | Performance enhancement of quantum dot sensitized solar cells by adding electrolyte additives | J. Du, X. X. Meng, K. Zhao, Y. Li and X. H. Zhong（钟新华） | 钟新华 | Journal of Materials Chemistry A | 2015, 3(33): 17091-17097. | 7.443 | | 40 | A new D–A–p–A type organic sensitizer based on substituted dihydroindolo [2,3-b] carbazole and DPP unit with a bulky branched alkyl chain for highly efficient DSCs | Guojian Tian, Shengyun Cai, Xin Li, Hans Agren, Qiaochun Wang, Jinhai Huang and Jianhua Su | 苏建华 | Journal of Materials Chemistry A | 2015, 3： 3777–3784 | 7.443 | | 41 | CuInSe2 and CuInSe2–ZnS based high efficiency “green” quantum dot sensitized solar cells | Wenjie Li, Zhenxiao Pan and Xinhua Zhong（钟新华） | 钟新华 | Journal of Materials Chemistry A | 2015, 3, 1649–1655 | 7.443 | | 42 | An efficient Cu-K-La/gamma-Al2O3 catalyst for catalytic oxidation of hydrogen chloride to chlorine | K. K. Feng, C. W. Li, Y. L. Guo（郭杨龙）, W. C. Zhan, B. Q. Ma, B. W. Chen, M. Q. Yuan and G. Z. Lu（卢冠忠） | 卢冠忠 | Applied Catalysis B-Environmental | 2015, 164: 483-487. | 7.435 | | 43 | Catalytic total oxidation of 1,2-dichloroethane over highly dispersed vanadia supported on CeO2 nanobelts | Q. G. Dai, S. X. Bai, H. Li, W. Liu, X. Y. Wang（王幸宜） and G. Z. Lu（卢冠忠） | 卢冠忠 | Applied Catalysis B-Environmental | 2015, 168: 141-155. | 7.435 | | 44 | Catalytic combustion of 1,2-dichlorobenzene at low temperature over Mn-modified Co3O4 catalysts | T. Cai, H. Huang, W. Deng, Q. G. Dai, W. Liu and X. Y. Wang（王幸宜） | 王幸宜 | Applied Catalysis B-Environmental | 2015, 166: 393-405. | 7.435 | | 45 | Catalytic total oxidation of 1,2-dichloroethane over highly dispersed vanadia supported on CeO2 nanobelts | Q. G. Dai（戴启广）, S. X. Bai, H. Li, W. Liu, X. Y. Wang（王幸宜） and G. Z. Lu | 王幸宜 | Applied Catalysis B-Environmental | 2015, 168-169: 141-155. | 7.435 | | 46 | Silica nanocrystal/graphene composite with improved photoelectric and photocatalytic performance | L. G. Yang, L. Z. Wang（王灵芝） and J. L. Zhang（张金龙） | 张金龙 | Applied Catalysis B-Environmental | 2016,180:106-112 | 7.435 | | 47 | A facile approach to further improve the substitution of nitrogen into reduced TiO2-x with an enhanced photocatalytic activity | Y. Zhou, Y. C. Liu, P. W. Liu, W. Y. Zhang, M. Y. Xing and J. L. Zhang（张金龙） | 张金龙 | Applied Catalysis B-Environmental | 2015, 170: 66-73. | 7.435 | | 48 | Preparation of homogeneous nitrogen-doped mesoporous TiO2 spheres with enhanced visible-light photocatalysis | X. Li, P. W. Liu, Y. Mao, M. Y. Xing and J. L. Zhang（张金龙） | 张金龙 | Applied Catalysis B-Environmental | 2015, 164: 352-359. | 7.435 | | 49 | Synthesis of visible-light driven CrxOy-TiO2 binary photocatalyst based on hierarchical macro-mesoporous silica | L. J. Lu, F. Teng, SenTapas, D. Y. Qi, L. Z. Wang（王灵芝） and J. L. Zhang（张金龙） | 张金龙 | Applied Catalysis B-Environmental | 2015, 163: 9-15. | 7.435 | | 50 | Real-time monitoring for the morphological variations of single gold nanorods | T. Xie, C. Jing, W. Ma, Z. F. Ding, A. J. Gross and Y. T. Long（龙亿涛) | 龙亿涛 | Nanoscale | 2015, 7(2): 511-517 | 7.394 | | 51 | Catalytic combustion of chlorobenzene over VOx/CeO2 catalysts | H. Huang, Y. F. Gu, J. Zhao and X. Y. Wang（王幸宜） | 王幸宜 | Journal of Catalysis | 2015, 326: 54-68. | 6.921 | | 52 | Stacked graphene platelet nanofibers dispersed in the liquid electrolyte of highly efficient cobaltmediator-based dye-sensitized solar cells | Xing Li, Ying Zhou, Jue Chen, Jiabao Yang, Zhiwei Zheng, Wenjun Wu, Jianli Hua （花建丽） and He Tian （田禾） | 花建丽 | Chemical Communications | 2015, 10349–10352 | 6.843 | | 53 | Glycosylation enhances the aqueous sensitivity and lowers the cytotoxicity of a naphthalimide zinc ion fluorescence probe | L. Dong, Y. Zang, D. Zhou, X. P. He（贺晓鹏）, G. R. Chen（陈国荣）, T. D. James and J. Li | 陈国荣 | Chemical Communications | 2015, 51(59): 11852-11855. | 6.834 | | 54 | Selective fluorogenic imaging of hepatocellular H2S by a galactosyl azidonaphthalimide probe | D.-T. Shi, D. Zhou, Y. Zang, J. Li, G. R. Chen（陈国荣）, T. D. James, X. P. He（贺晓鹏） and H. Tian（田禾） | 陈国荣 | Chemical Communications | 2015, 51, 3653-3655 | 6.834 | | 55 | Single-molecule analysis of the self-assembly process facilitated by host–guest interactions | Fu-Na Meng, Xuyang Yao, Yi-Lun Ying, Junji Zhang, He Tian and Yi-Tao Long | 龙亿涛 | Chemical Communications | 2015, 51: 1202--1205. | 6.834 | | 56 | Optical monitoring of faradaic reaction using single plasmon-resonant nanorods functionalized with graphene | H. Zhou, Q. Liu, F. J. Rawson, W. Ma, D. W. Li, D. Li, Y. T. Long（龙亿涛) | 龙亿涛 | Chemical Communications | 2015, 51(15): 3223-3226 | 6.834 | | 57 | A transition-metal-free, one-pot procedure for the synthesis of alpha,beta-epoxy ketones by oxidative coupling of alkenes and aldehydes via base catalysis | Q. P. Ke, B. Y. Zhang, B. L. Hu, Y. X. Jin and G. Z. Lu（卢冠忠） | 卢冠忠 | Chemical Communications | 2015, 51(6): 1012-1015 | 6.834 | | 58 | Rh-Catalyzed 1,2-Sulfur Migration/aza-Diels-Alder Cascade Initiated by aza-Vinyl Carbenoids from Sulfur-Tethered N-Sulfonyl-1,2,3-triazoles. | Yu Jiang, Xiang-Ying Tang, Min Shi（施敏） | 施敏 | Chemical Communications | 2015, *51*, 2122-2125 | 6.834 | | 59 | Cyclization of Sulfide, Ether or Tertiary Amine Tethered N-sulfonyl-1,2,3-triazoles: A Facile Synthetic Protocol to 3-Substituted Isoquinolines or Dihydroisoquinolines. | Yu Jiang, Run Sun, Qiang Wang, Xiang-Ying Tang, Min Shi（施敏） | 施敏 | Chemical Communications | 2015, *51*, 16968-16971 | 6.834 | | 60 | A gold-catalyzed 1,2-acyloxy migration/intramolecular cyclopropanation/ring enlargement cascade: syntheses of medium-sized heterocycles | Y. W. Sun, X. Y. Tang and M. Shi（施敏） | 施敏 | Chemical Communications | 2015, 51(73): 13937-13940. | 6.834 | | 61 | Colour-tunable fluorescence of single molecules based on the vibration induced emission of phenazine | Wei Huang, Lu Sun, Zhiwen Zheng, Jianhua Sua and He Tian | 田禾 | Chemical Communications | 2015, 51, 4462--4464 | 6.834 | | 62 | A cucurbit[5]uril analogue from dimethylpropanediurea–formaldehyde condensation | Xiaoqing Jiang, Xuyang Yao, Xinghua Huang, Qiaochun Wang\* and He Tian | 田禾 | Chemical Communications | 2015, 51, 2890—2892 | 6.834 | | 63 | CFBSA: a novel and practical chlorinating reagent | Zehai Lu, Qingwei Li, Minghu Tang, Panpan Jiang, Hao Zheng\* and Xianjin Yang（杨先金） | 杨先金 | Chemical Communications | 2015, 51,14852-14855 | 6.834 | | 64 | Plasmon-free SERS self-monitoring of catalysis reaction on Au nanoclusters/TiO2 photonic microarray | D. Y. Qi, X. F. Yan, L. Z. Wang(王灵芝), J. L. Zhang(张金龙) | 张金龙 | Chemical Communications | 2015,51(42):8813-8816 | 6.834 | | 65 | A Fluorescent Bistable [2]Rotaxane Molecular Switch on SiO2 Nanoparticles | Z.-Q. Cao, Q. Miao, Q. Zhang, H. Li, D.-H. Qu（曲大辉）, H. Tian（田禾） | 田禾 | Chemical Communications | 2015, 51, 4973–4976. | 6.834 | | 66 | A Hyperbranched Supramolecular Polymer Constructed by Orthogonal Triple Hydrogen Bonding and Host-guest Interactions | R.-R. Gu, J. Yao, X. Fu, W. Zhou, D.-H. Qu（曲大辉） | 田禾 | Chemical Communications | 2015, 51(25), 5429–5431. | 6.834 | | 67 | Systematic Investigations on the Roles of the Electron Acceptor and Neighboring Ethynylene Moiety in Porphyrins for Dye-Sensitized Solar Cells | Wei Tiantian, Xi Sun, Xin Li,\*, Hans Ågren, and Yongshu Xie\*(解永树) | 解永树 | ACS Applied Materials & Interfaces | 2015, 7, 21956−21965. | 6.732 | | 68 | Porphyrins containing a triphenylamine donor and up to eight alkoxy chains for dye-sensitized solar cells: a high efficiency of 10.9% | Yunyu Tang, Yueqiang Wang, Xin Li, Hans Ågren, Wei-Hong Zhu, and Yongshu Xie\*(解永树) | 解永树 | ACS Applied Materials & Interfaces | 2015, 7(50), 27976-27985 | 6.732 | | 69 | Pyrimidine-2-carboxylic Acid as an Electron-Accepting and Anchoring Group for Dye-Sensitized Solar Cells | Zhifang Wu, Xin Li, Hans Ågren, Jianli Hua, and He Tian（田禾） | 花建丽 | ACS Applied Materials & Interfaces | 2015, 7: 26355−26359. | 6.732 | | 70 | Colorimetric and Plasmonic Detection of Lectins Using Core-Shell Gold Glyconanoparticles Prepared by Copper-Free Click Chemistry | X. L. Hu, H. Y. Jin, X. P. He（贺晓鹏）, T. D. James, G. R. Chen（陈国荣） and Y. T. Long（龙亿涛） | 陈国荣 | ACS Applied Materials & Interfaces | 2015, 7(3): 1874-1878. | 6.723 | | 71 | Comparative Study on Pyrido 3,4-b pyrazine-Based Sensitizers by Tuning Bulky Donors for Dye-Sensitized Solar Cells | X. Y. Zhang, J. Y. Mao, D. Wang, X. Li, J. B. Yang, Z. J. Shen, W. J. Wu, J. Li, H. Agren and J. L. Hua（花建丽） | 花建丽 | ACS Applied Materials & Interfaces | 2015, 7(4): 2760-2771. | 6.723 | | 72 | Analyzing Carbohydrate-Protein Interaction Based on Single Plasmonic Nanoparticle by Conventional Dark Field Microscopy | H. Y. Jin, D. W. Li, N. Zhang, Z. Gu and Y. T. Long（龙亿涛） | 龙亿涛 | ACS Applied Materials & Interfaces | 2015, 7(22): 12249-12253. | 6.723 | | 73 | Facile Fabrication of a Silver Dendrite-Integrated Chip for Surface-Enhanced Raman Scattering | H. X. Gu, L. Xue, Y. F. Zhang, D. W. Li and Y. T. Long（龙亿涛） | 龙亿涛 | ACS Applied Materials & Interfaces | 2015, 7(4): 2931-2936. | 6.723 | | 74 | Superior Catalytic Activity of Electrochemically Reduced Graphene Oxide Supported Iron Phthalocyanines toward Oxygen Reduction Reaction | D.Liu and Y. T. Long（龙亿涛） | 龙亿涛 | ACS Applied Materials & Interfaces | 2015, 7(43): 24063-24068 | 6.723 | | 75 | Monitoring Dopamine Quinone-Induced Dopaminergic Neurotoxicity Using Dopamine Functionalized Quantum Dots | W. Ma, H. T. Liu, Y. T. Long（龙亿涛) | 龙亿涛 | ACS Applied Materials & Interfaces | 2015, 7(26): 14352-14358 | 6.723 | | 76 | Core-Shell Structural CdS@SnO2 Nanorods with Excellent Visible-Light Photocatalytic Activity for the Selective Oxidation of Benzyl Alcohol to Benzaldehyde | Y. Liu, P. Zhang, B. Z. Tian（田宝柱） and J. L. Zhang（张金龙） | 张金龙 | ACS Applied Materials & Interfaces | 2015, 7(25): 13849-13858. | 6.723 | | 77 | Probing sugar-lectin recognitions in the near-infrared region using glyco-diketopyrrolopyrrole with aggregation-induced-emission | Y. D. Hang, X. P. He（贺晓鹏）, L. Yang and J. L. Hua（花建丽） | 花建丽 | Biosensors & Bioelectronics | 2015, 65: 420-426. | 6.409 | | 78 | Label-free in-situ monitoring of protein tyrosine nitration in blood by surface-enhanced Raman spectroscopy | Y. T. Li, D. W. Li, Y. Cao, Y. T. Long（龙亿涛) | 龙亿涛 | Biosensors & Bioelectronics | 2015, 69: 42011 | 6.409 | | 79 | Synthesis of a Neo-Confused Octaphyrin and the Formation of Its Mononuclear Complexes | Kai Zhang, Junda Zhang, Xin Li, Rui Guo, Hans Ågren, Zhongping Ou, Masatoshi Ishida, Hiroyuki Furuta,\* and Yongshu Xie\* (解永树) | 解永树 | Organic Letters | 2015, 17, 4806−4809. | 6.364 | | 80 | Copper-Mediated Trifluoromethylation Using Phenyl Trifluoromethyl Sulfoxide | X. J. Li, J. W. Zhao, L. Zhang, M. Y. Hu, L. M. Wang（王利民） and J. B. Hu | 王利民 | Organic Letters | 2015, 17(2): 298-301. | 6.364 | | 81 | Design of Highly Stable Iminophosphoranes as Recyclable Organocatalysts: Application to Asymmetric Chlorinations of Oxindoles | Xing Gao, Jianwei Han, and Limin Wang\* | 王利民 | Organic Letters | 2015, 17 (18), 4596–4599 | 6.364 | | 82 | Palladium Catalyzed C–I and Vicinal C–H Dual Activation of Diaryliodonium Salts for Diarylation: Synthesis of 4,5-Benzocoumarins | Xunshen Wu, Yang Yang, Jianwei Han, and Limin Wang\* | 王利民 | Organic Letters | 2015, 17 (22), 5654–5657 | 6.364 | | 83 | Monocarboxylation and Intramolecular Coupling of Butenylated Arenes via Palladium-Catalyzed C-H Activation Process | R. Liu, Z. H. Lu, X. H. Hu, J. L. Li and X. J. Yang（杨先金） | 杨先金 | Organic Letters | 2015, 17(6): 1489-1492. | 6.364 | | 84 | Covalent Modification of Graphene Oxide with Carbazole Groups for Laser Protection | T. Bai, C. Q. Li, J. Sun, Y. Song, J. Wang, W. J. Blau, B. Zhang and Y. Chen（陈彧） | 陈彧 | Chemistry-a European Journal | 2015, 21(12): 4622-4627. | 5.731 | | 85 | Iron(III)-Catalyzed Cycloisomerizations of Acetal-vinylidencyclopropanes: An Efficient Synthetic Route to 1, 2-Disubstituted Cyclobutenes. | Song Yang, Wei Yuan, Qin Xu, Min Shi（施敏） | 施敏 | Chemistry-a European Journal | 2015, *21*, 15964-15969 | 5.731 | | 86 | Gold(I)-Catalyzed Intramolecular Cycloisomerization of Propargylic Esters with Furan Rings | J. M. Yang, X. Y. Tang and M. Shi（施敏） | 施敏 | Chemistry-a European Journal | 2015, 21(12): 4534-4540. | 5.731 | | 87 | Gold(I)-Catalyzed Selective Heterocyclization of Propargylic Thioureas: Mechanistic Study of Competitive Gold-Activation Mode | Y. Jiang, Y. Wei, X. Y. Tang and M. Shi（施敏） | 施敏 | Chemistry-a European Journal | 2015, 21(21): 7675-7681. | 5.731 | | 88 | Enantioselective Vinylogous Michael/Cyclization Cascade Reaction of Acyclic β,γ-Unsaturated Amides with Isatylidene Malononitriles: Asymmetric Construction of Spirocyclic Oxindoles | 1. Tian-Ze Li, Jin Xie, Yu Jiang, F. Sha, X. Y. Wu（伍新燕） | 伍新燕 | Adv. Synth. Catal. | 2015, 357 (16-17), 3507 –3511 | 5.663 | | 89 | A One-Pot Approach to Phenanthridine Derivatives through Cooperative Rh(I) and Au(I) Catalysis. | Zizhong Zhu, Kai Chen, Qin Xu, Min Shi（施敏） | 施敏 | Adv. Synth. Catal. | 2015, *357*, 3081-3090 | 5.663 | | 90 | Accurate Data Process for Nanopore Analysis | Z. Gu, Y. L. Ying, C. Cao, P. G. He and Y. T. Long（龙亿涛） | 龙亿涛 | Analytical Chemistry | 2015, 87(2): 907-913. | 5.636 | | 91 | Alcohol Dehydrogenase-Catalyzed Gold Nanoparticle Seed-Mediated Growth Allows Reliable Detection of Disease Biomarkers with the Naked Eye | M. P. Peng, W. Ma and Y. T. Long（龙亿涛） | 龙亿涛 | Analytical Chemistry | 2015, 87(12): 5891-5896. | 5.636 | | 92 | Quick serological detection of a cancer biomarker with an agglutinated supramolecular glycoprobe | X.-P. He（贺晓鹏）, X.-L. Hu, H.-Y. Jin, J. Gan, H. Zhu, J. Li, Y.-T. Long（龙亿涛） and H. Tian（田禾） | 龙亿涛 | Analytical Chemistry | 2015, 87, 9078-9083 | 5.636 | | 93 | Reply to Comment on Accurate Data Process for Nanopore Analysis | Z. Gu, Y. L.Ying C. Cao, P. G. He, and Y. T. Long（龙亿涛） | 龙亿涛 | Analytical Chemistry | 2015, 87(20): 10653-10656 | 5.636 | | 94 | Highly Selective Detection of Carbon Monoxide in Living Cells by Palladacycle Carbonylation-Based Surface Enhanced Raman Spectroscopy Nanosensors | Y. Cao, D. W. Li, L. J. Zhao, X. Y. Liu, X. M. Cao, and Y. T. Long（龙亿涛) | 龙亿涛 | Analytical Chemistry | 2015, 87(19): 9696-9701 | 5.636 | | 95 | Hierarchical Assembly of a Dual-responsive Macroscopic Insulated Molecular Wire Bundle in a Gradient System | Y. J. Shen（沈永嘉）g, Q. B. Chen, J. Y. Yao, Y. Wang and H. L. Liu（刘洪来） | 刘洪来 | Scientific Reports | 2015, 5: 7791. | 5.578 | | 96 | Bridge- and Solvent-Mediated Intramolecular Electronic Communications in Ubiquinone-Based Biomolecular Wires | X. Y. Liu, W. Ma, H. Zhou, X. M. Cao and Y. T. Long（龙亿涛） | 龙亿涛 | Scientific Reports | 2015, 5: 10352. | 5.578 | | 97 | Brightening Gold Nanoparticles: New Sensing Approach Based on Plasmon Resonance Energy Transfer | L. Shi, C. Jing, Z. Gu and Y. T. Long（龙亿涛） | 龙亿涛 | Scientific Reports | 2015, 5: 10142. | 5.578 | | 98 | A strategy to design novel structure photochromic sensitizers for dye-sensitized solar cells | W. J. Wu, J. X. Wang, Z. W. Zheng, Y. Hu, J. Y. Jin, Q. Zhang and J. L. Hua（花建丽） | 武文俊 | Scientific Reports | 2015, 5: 8592. | 5.578 | | 99 | Facile synthesis of the Ti3+ self-doped TiO2-graphene nanosheet composites with enhanced photocatalysis | B. C. Qiu, Y. Zhou, Y. F. Ma, X. L. Yang, W. Q. Sheng, M. Y. Xing and J. L. Zhang（张金龙） | 张金龙 | Scientific Reports | 2015, 5: 8591. | 5.578 | | 100 | Enantiospecific photoresponse of sterically hindered diarylethenes for chiroptical switches and photomemories | W. L. Li, X. Li, Y. S. Xie, Y. Wu, M. Q. Li, X. Y. Wu（伍新燕）, W. H. Zhu（朱为宏） and H. Tian（田禾） | 朱为宏 | Scientific Reports | 2015, 5: 9186. | 5.578 | | 101 | The Energy Difference between the Triply-Bridged and All-Terminal Structures of Co-4(CO)(12), Rh-4(CO)(12), and Ir-4(CO)(12): A Difficult Test for Conventional Density Functional Methods | H. R. Ding, Y. X. Lu, Y. M. Xie, H. L. Liu（刘洪来） and H. F. Schaefer | 刘洪来 | Journal of Chemical Theory and Computation | 2015, 11(3): 940-949. | 5.498 | | 102 | The role of Mn doping in CeO2 for catalytic synthesis of aliphatic carbamate from CO2† | Ran Zhang, Li Guo, Chen Chen, Jizhong Chen, Angjun Chen, Xiuge Zhao, Xuerui Liu, Yuhe Xiu and Zhenshan Hou\*（侯震山） | 侯震山 | Catal. Sci. Technol., | 2015, 5: 2959–2972 | 5.426 | | 103 | An insight into graphene oxide associated fluorogenic sensing of glycodye-lectin interactions | D. K. Ji, Y. Zhang, X. P. He（贺晓鹏） and G. R. Chen（陈国荣） | 陈国荣 | Journal of Materials Chemistry B | 2015, 3(32): 6656-6661. | 4.726 | | 104 | Receptor-targeting fluorescence imaging and theranostics using a graphene oxide based supramolecular glycocomposite | D.-L. Ji, Y. Zhang, Y. Zang, W. Liu, X. Zhang, J. Li, G.-R. Chen（陈国荣）, T. D. James and X.-P. He（贺晓鹏） | 陈国荣 | Journal of Materials Chemistry B | 2015, 3, 9182-9185 | 4.726 | | 105 | Two Stepwise Synthetic Routes toward a Hetero 4 rotaxane | Q. F. Luo（罗千福）, L. Zhu, S. J. Rao, H. Li, Q. Miao and D. H. Qu（曲大辉） | 田禾 | Journal of Organic Chemistry | 2015, 80(9): 4704-4709. | 4.721 | | 106 | Construction of Benzo[c]carbazoles and Their Antitumor Derivatives through the Diels–Alder Reaction of 2-Alkenylindoles and Arynes | F. Sha, Y. Tao, C. Y. Tang, F. Zhang, X. Y. Wu（伍新燕） | 伍新燕 | Journal of Organic Chemistry | 2015, 80 (16), 8122-8133 | 4.721 | | 107 | Synthesis and nonvolatile memristive switching effect of a donor–acceptor structured oligomer | Cheng Wang, Gang Liu, Yu Chen, Run-Wei Li, Wenbin Zhang, Luxin Wang and Bin Zhang | 陈彧 | Journal of Materials Chemistry C | 2015, 3: 664-673 | 4.696 | | 108 | A hybrid supramolecular polymeric hydrogel with rapidly self-healing property | Lin Chen, Hui Chen, Xuyang Yao, Xiang Ma（马骧）and He Tian | 田禾 | Chemistry-an Asian Journal | 2015, 10 (11), 2352-2355 | 4.587 | | 109 | TiO2 with "Fluorine-Occupied" Surface Oxygen Vacancies and Its Stably Enhanced Photocatalytic Performance | L. M. Xu, L. F. Ming and F. Chen（陈锋） | 陈锋 | Chemcatchem | 2015, 7(12): 1797-1800. | 4.556 | | 110 | Enantioselective 3+2 Cyclization of 3-Isothiocyanato Oxindoles with Trifluoromethylated 2-Butenedioic Acid Diesters | D. Du, Y. Jiang, Q. Xu, X. Y. Tang and M. Shi（施敏） | 施敏 | Chemcatchem | 2015, 7(8): 1366-1371. | 4.556 | | 111 | Gold- and Silver-Catalyzed Intramolecular Cyclizations of Indolylcyclopropenes for the Divergent Synthesis of Azepinoindoles and Spiroindoline Piperidines | P. L. Zhu, Z. Zhang, X. Y. Tang, I. Marek and M. Shi（施敏） | 施敏 | Chemcatchem | 2015, 7(4): 595-600. | 4.556 | | 112 | Molecular engineering of D-A-π-A dyes with 2-(1,1-dicyanomethylene)rhodanine as an electron-accepting and anchoring group for dye-sensitized solar cells | Jiangyi Mao, Xiaoyu Zhang, Shih-Hung Liu, Zhongjin Shen, Xing Li, Wenjun Wu, Pi-Tai Chou, and Jianli Hua （花建丽） | 花建丽 | Electrochimica Acta | 2015,179,179-186 | 4.504 | | 113 | The acidity/basicity of metal-containing ionic liquids: insingts from surface analysis and the Fukui function | Weihong Wu, Yunxiang Lu,\* Hairong Ding, Changjun Peng and Honglai Liu(刘洪来） | 刘洪来 | Physical Chemistry Chemical Physics | 17(2), 2015: 1339-1346 | 4.493 | | 114 | In situ growth of TiO2 nanocrystals on g-C3N4 for enhanced photocatalytic performance | H. Li, L. Zhou, L. Z. Wang（王灵芝）, Y. D. Liu, J. Y. Lei and J. L. Zhang（张金龙） | 张金龙 | Physical Chemistry Chemical Physics | 2015, 17(26): 17406-17412. | 4.493 | | 115 | Selective synthesis of TiO2 single nanocrystals and titanate nanotubes: a controllable atomic arrangement approach via NH4TiOF3 mesocrystals | P. H. Wang, Q. Y. Yi, M. Y. Xing and J. L. Zhang（张金龙） | 张金龙 | Physical Chemistry Chemical Physics | 2015, 17(34): 21982-21987. | 4.493 | | 116 | NO adsorption and diﬀusion on hydroxylated rutile TiO2(110) | Yan-Yan Yu, Ulrike Diebold and Xue-Qing Gong（龚学庆） | 龚学庆 | Physical Chemistry Chemical Physics | 2015, 17： 26594-26598. | 4.493 | | 117 | Role of oxygen vacancies in the surface evolution of H at CeO2(111): a charge modification eﬀect | Xin-Ping Wu, Xue-Qing Gong（龚学庆） and Guanzhong Lu | 龚学庆 | Physical Chemistry Chemical Physics | 2015, 17: 3544-3549. | 4.493 | | 118 | Gold nanoparticles embedded in silica hollow nanospheres induced by compressed CO2 as an efficient catalyst for selective oxidation | Li Guo, Ran Zhang, Chen Chen, Jizhong Chen, Xiuge Zhao, Angjun Chen, Xuerui Liu, Yuhe Xiu and Zhenshan Hou\*(侯震山） | 侯震山 | Physical Chemistry Chemical Physics | 2015, 17: 6406-6414 | 4.493 | | 119 | Bis-p-sulfonatocalix[4]arene-based supramolecular amphiphiles with an emergent lower critical solution temperature behaviour in aqueous solution and hydroge | XuyangYao, XiWang, TaoJiang, Xiang Ma\*（马骧） and He Tian | 田禾 | Langmuir | 2015, DOI:10.1021/acs.langmuir.5b04083 | 4.457 | | 120 | Insertion of pH-sensitive bola-type copolymer into liposome as a “stability anchor” for control of drug release | Weiju Hao, Xia Han, Yazhuo Shang, Shouhong Xu∗, Honglai Liu∗（刘洪来） | 刘洪来 | Colloids and Surfaces B: Biointerfaces | 136,2015: 809-816 | 4.152 | | 121 | Insertion of pH-sensitive bola-type copolymer into liposome as a “stability anchor” for control of drug release. | Weiju Hao, Xia Han（韩霞）, Yazhuo Shang, Shouhong Xu\*, Honglai Liu\*（刘洪来）. | 刘洪来 | Colloids and Surfaces B: Biointerfaces | 2015, 136:809–816. | 4.152 | | 122 | Constructing a FRET-based molecular chemodosimeter for cysteine over homocysteine and glutathione by naphthalimide and phenazine derivatives | Lin Yang, Weisong Qu, Xiao Zhang, Yandi Hang and Jianli Hua (花建丽） | 花建丽 | Analyst | 2015, 140, 182-189 | 4.107 | | 123 | Photostable red turn-on fluorescent diketopyrrolopyrrole chemodosimeters for the detection of cysteine in living cells | W. S. Qu, L. Yang, Y. D. Hang, X. Zhang, Y. Qu and J. L. Hua（花建丽） | 花建丽 | Sensors and Actuators B-Chemical | 2015, 211: 275-282. | 4.097 | | 124 | Acylation of Dipyrromethanes at the a and b Positions and Further Development of Fluorescent Zn2+ Probes | Yunyu Tang, Yubin Ding, Xin Li, Hans Ågren, Tong, Li, Yongshu Xie\* (解永树) | 解永树 | Sensors and Actuators B-Chemical | 2015, 206, 291–302. | 4.097 | | 125 | Carbon Dot-Incorporated PMO Nanoparticles as Versatile Platforms for the Design of Ratiometric Sensors, Multichannel Traceable Drug Delivery Vehicles, and Efficient Photocatalysts | J. Y. Lei, L. G. Yang, D. L. Lu, X. F. Yan, C. Cheng, Y. D. Liu, L. Z. Wang, J. L. Zhang | 张金龙 | Advanced Optical Materials | 2015,3(1):57-63 | 4.064 | | 126 | Effect of the crystal plane figure on the catalytic performance of MnO2 for the total oxidation of propane | Y. J. Xie, Y. Y. Yu, X. Q. Gong, Y. Guo, Y. L. Guo, Y. Q. Wang and G. Z. Lu（卢冠忠） | 卢冠忠 | CrystEngComm | 2015, 17(15): 3005-3014 | 4.034 | | 127 | Effect of 1D twisted water chains confined in channels formed by a Gemini amphiphile on its crystal stability | Yujie Sheng,‡ Junyao Yao,‡ Qibin Chen\* and Honglai Liu（刘洪来） | 刘洪来 | CrystEngComm | 17, 2015: 1439-1447 | 4.034 | | 128 | Constructing of Silver Tungstate Multilevel Sphere Clusters by Controlling Energy Distribution on Crystal Surface | Xiao-Yan Zhang, Jian-Dong Wang, Jin-Ku Liu\*, Xiao-Hong Yang, Yi Lu, | 刘金库 | CrystEngComm | 2015, 17(11), 1129-1138. | 4.034 | | 129 | Thermal perturbation nucleation and growth of silver molybdate nanoclusters by a dynamic template route | H. Jiang, J. K. Liu（刘金库）, J. D. Wang, Y. Lu and X. H. Yang | 刘金库 | CrystEngComm | 2015, 17(29): 5511-5521. | 4.034 | | 130 | From multi-responsive tri- and diblock copolymers to diblock-copolymer-decorated gold nanoparticles: the effect of architecture on micellization behaviors in aqueous solutions. | Lichun Song, Hui Sun, Xiaolu Chen, Xia Han\*（韩霞）, Honglai Liu（刘洪来）. | 刘洪来 | Soft Matter | 2015, 11 (24):4830 – 4839 | 4.029 | | 131 | Multi-Tunable Self-Assembled Morphologies of Stimuli-responsive Diblock Polyampholyte Films on Solid Substrates. | Xia Han（韩霞）, Zhiying Xiong, Xuxia Zhang, HongLai Liu（刘洪来）. | 刘洪来 | Soft Matter | 2015, 11: 2139 – 2146. | 4.029 | | 132 | Ratiometric glyco-probe for transient determination of thiophenol in full aqueous solution and river water | K. B. Li, D. Zhou, X. P. He（贺晓鹏） and G. R. Chen（陈国荣） | 陈国荣 | Dyes and Pigments | 2015, 116: 52-57. | 3.966 | | 133 | Near-infrared absorbing isoindigo sensitizers: synthesis and performance for dye-sensitized solar cells | Dan Wang, Weijiang Ying, Xiaoyu Zhang, Yue Hu, Wenjun Wu, and Jianli Hua （花建丽） | 花建丽 | Dyes and Pigments | 2015, 112, 327–334 | 3.966 | | 134 | Synthesis and characteristics of dithienylethenes with purine and pyrimidine substituents | Q. F. Luo（罗千福）, M. Q. Liu, R. J. Cheng and Y. Liu | 罗千福 | Dyes and Pigments | 2015, 113: 602-608. | 3.966 | | 135 | Photo-responsive chiral cyclic molecular switches based on stiff stilbene | Ning Zhu, Xin Li, Yuan Wang and Xiang Ma（马骧） | 田禾 | Dyes and Pigments | 2016, 125, 259-265 | 3.966 | | 136 | Preparation and Properties of Organo-soluble Tetraphenylethylene Monolayer-Protected Gold Nanorods. | Tiantian Cao, Dengfeng Li, Xuyang Yao, Yikai Xu and Xiang Ma（马骧） | 田禾 | Dyes and Pigments | 2016, 124, 1-5 | 3.966 | | 137 | Two Functional [2]Rotaxanes Featuring Intercomponent Interactions Between Chromophores | J. Yao, X. Fu, X.-L. Zheng, Z.-Q. Cao, D.-H. Qu（曲大辉）, | 田禾 | Dyes and Pigments | 2015, 121, 13-20 | 3.966 | | 138 | A colorimetric and ratiometric ﬂuorescent probe with a large stokes shift for detection of hydrogen sulfide. | K. Q.Xiang,Y.C. Liu, C. J. Li, B. Z. Tian (田宝柱） T.Z. Tong, J. L. Zhang(张金龙） | 张金龙 | Dyes and Pigments | 2015, 123, 78-84 | 3.966 | | 139 | Photo-controllable and aggregation-induced emission based on photochromic bithienylethene | L.L. Chen , J.Q. Zhang , Q. C. Wang, L. Zou (邹雷） | 邹雷 | Dyes and Pigments | 2015, 123: 112-115 | 3.966 | | 140 | High thermal-stability benzocarbazole derivatives as bipolar host materials for phosphorescent organic light-emitting diodes | Yi Chen, Wenqing Liang, Wing Hong Choi, Jinhai Huang, Qingchen Dong,Furong Zhu, Jianhua Su | 苏建华 | Dyes and Pigments | 2015, 123: 196-203. | 3.966 | | 141 | The experiment and modeling of supported Wacker-type catalyst for CO oxidation at high relative humidity | L. Wang, W. Wang, Y. H. Zhang, Y. L. Guo（郭杨龙）, G. Z. Lu（卢冠忠） and Y. Guo（郭耘） | 卢冠忠 | Catalysis Today | 2015, 242: 315-321. | 3.893 | | 142 | Theoretical studies on the monomeric vanadium oxides supported by ceria: the atomic structures and oxidative dehydrogenation activities | X. P. Wu, J. J. Liu, J. Fan and X. Q. Gong（龚学庆） | 龚学庆 | Rsc Advances | 2015, 5(64): 52259-52263. | 3.84 | | 143 | Deep oxidative desulfurization catalyzed by an ionic liquid-type peroxotungsten catalyst† | Jizhong Chen, Chen Chen, Ran Zhang, Li Guo, Li Hua, Angjun Chen, Yuhe Xiu, Xuerui Liu and Zhenshan Hou\*（侯震山） | 侯震山 | Rsc Advances | 2015, 5: 25904–25910 | 3.84 | | 144 | Selective dehydration of sorbitol to 1,4-anhydro-Dsorbitol catalyzed by a polymer-supported acid catalyst† | Yuhe Xiu, Angjun Chen, Xuerui Liu, Chen Chen, Jizhong Chen, Li Guo, Ran Zhang and Zhenshan Hou\*(侯震山） | 侯震山 | Rsc Advances | 2015, 5: 28233–28241 | 3.84 | | 145 | Dibenzo[a,c]phenazine-derived near-infrared ﬂuorescence biosensor for detection of lysophosphatidic acid based on the aggregation-induced emission | Tao Jiang, Niannian Lu, Ji Yang, Yandi Hang, Jian Wang, Ping Zhao and Jianli Hua （花建丽） | 花建丽 | Rsc Advances | 2015，5, 102863 - 102867 | 3.84 | | 146 | Tetraphenylethene end-capped [1,2,5]thiadiazolo [3,4-c]pyridine with aggregation-induced emission and large two-photon absorption cross-sections | Tao Jiang, Yi Qu, Bo Li, Yuting Gao and Jianli Hua（花建丽） | 花建丽 | Rsc Advances | 2015, 5, 1500–1506 | 3.84 | | 147 | Halogen bonding interactions in ion pairs versus conventional charge-assisted and neutral halogen bonds: a theoretical study based on imidazolium species | S. Z. Zhang, Z. Q. Chen, Y. X. Lu, Z. J. Xu, W. H. Wu, W. L. Zhu, C. J. Peng and H. L. Liu（刘洪来） | 刘洪来 | Rsc Advances | 2015, 5(91): 74284-74294. | 3.84 | | 148 | pH-modulated double LCST behaviors with diverse aggregation processes of random-copolymer grafted silica nanoparticles in aqueous solution. | Xiaolu Chen, Hui Sun, Jian Xu, Xia Han（韩霞）,\* Honglai Liu（刘洪来）, Ying Hu. | 刘洪来 | Rsc Advances | 2015, 5:86584 – 86592. | 3.84 | | 149 | New insight into photo-induced electron transfer with a simple ubiquinone-based triphenylamine model | X. Y. Liu, Y. T. Long（龙亿涛） and H. Tian（田禾） | 龙亿涛 | Rsc Advances | 2015, 5(71): 57263-57266. | 3.84 | | 150 | The promotional role of Ce in Cu/ZSM-5 and in situ surface reaction for selective catalytic reduction of NOx with NH3 | S. Lai, D. Meng, W. Zhan, Y. Guo, Y. Guo, Z.Zhang and G. Lu（卢冠忠） | 卢冠忠 | Rsc Advances | 2015, 5: 90235-90244 | 3.84 | | 151 | Palladium-Catalyzed Asymmetric [3+2] Cycloaddition to Construct 1,3-Indandione and Oxindole-Fused Spiropyrazolidine Scaffolds. | Bo Cao, Liang-Yong Mei, Xiao-Ge Li, Min Shi（施敏） | 施敏 | Rsc Advances | 2015, *5*, 92545-92548 | 3.84 | | 152 | Regio- and Diastereoselective Construction of 1',2'-Dihydrospiro[indoline-3,3'-pyrrol]-2'-yl)acrylates through Phosphine-catalyzed [4+1] Annulation of Morita-Baylis-Hillman Carbonates with Oxindole-Derived α,β-Unsaturated Imines. | Yu Lei, Xiao-Nan Zhang, Xue-Yan Yang, Qin Xu, Min Shi(施敏） | 施敏 | Rsc Advances | 2015, *5*, 49657-49661 | 3.84 | | 153 | Efficient blue fluorescent organic light-emitting diodes based on novel 9,10-diphenyl-anthracene derivatives | H. W. Chen, W. Q. Liang, Y. Chen, G. J. Tian, Q. C. Dong, J. H. Huang and J. H. Su（苏建华） | 苏建华 | Rsc Advances | 2015, 5(86): 70211-70219. | 3.84 | | 154 | Base promoted direct C4-arylation of 4-substituted-pyrazolin-5-ones with diaryliodonium salts | Song Mao, Xu Geng, Yang Yang, Xiaofei Qian, Shengying Wu, Jianwei Han and Limin Wang\* | 王利民 | Rsc Advances | 2015, 5, 36390-36393 | 3.84 | | 155 | Catalytic oxidation of 1,2-dichloroethane over Al2O3–CeO2 catalysts: combined effects of acid and redox properties | S. X. Bai, B. B. Shi, W. Deng,a Q. G. Dai（戴启广）and X. Y. Wang（王幸宜） | 王幸宜 | Rsc Advances | 2015, 5: 57482-57489. | 3.84 | | 156 | Highly enantioselective direct allylic alkylation of butenolides with Morita-Baylis-Hillman carbonates catalyzed by chiral squaramide-phosphine | T. C. Kang, X. Zhao, F. Sha and X. Y. Wu（伍新燕） | 伍新燕 | Rsc Advances | 2015, 5(91): 74170-74173. | 3.84 | | 157 | A colorimetric and ratiometric fluorescent probe for detection of palladium in the red light region | K. Q. Xiang, Y. C. Liu, C. J. Li, B. Z. Tian（田宝柱） and J. L. Zhang（张金龙） | 张金龙 | Rsc Advances | 2015, 5(65): 52516-52521. | 3.84 | | 158 | Hierarchically mesoporous/macroporous structured TiO2 for dye-sensitized solar cells | D. Y. Qi, L. Z. Wang（王灵芝） and J. L. Zhang（张金龙） | 张金龙 | Rsc Advances | 2015, 5(91): 74557-74561. | 3.84 | | 159 | Facile preparation of C-modified TiO2 supported on MCF for high visible-light-driven photocatalysis | B. C. Qiu, M. Y. Xing（邢明阳）, J. L. Zhang(张金龙） | 张金龙 | Rsc Advances | 2015, 5, 17802-17808 | 3.84 | | 160 | Preparation and characterization of SiO2/BiOX (X = Cl, Br, I) ﬁlms with high visible-light activity | F. Shen, M. Y. Xing（邢明阳）,J. L. Zhang(张金龙） | 张金龙 | Rsc Advances | 2015, 5, 4918–4925 | 3.84 | | 161 | Highly sensitive detection of low-level water content in organic solvents and cyanide in aqueous media using novel solvatochromic AIEE fluorophores | Wei Chen, Zhiyun Zhang, Xin Li, Hans Agren and Jianhua Su | 苏建华 | Rsc Advances | 2015, 5: 12191-12201. | 3.84 | | 162 | Direct methylation of N-methylaniline with CO2/H2 catalyzed by gold nanoparticles supported on Direct methylation of N-methylaniline with CO2/H2 catalyzed by gold nanoparticles supported on alumina | Gao Tang, Hong-Liang Bao, Chan Jin, Xin-Hua Zhong(钟新华) and Xian-Long Du | 钟新华 | Rsc Advances | 2015, 5, 99678–99687 | 3.84 | | 163 | Optimizing the deposition of CdSe colloidal quantum dots on TiO2 film electrode via capping ligand induced self-assembly approach | Xinxin Meng, Jun Du, Hua Zhang and Xinhua Zhong(钟新华) | 钟新华 | Rsc Advances | 2015, 5, 86023–86030 | 3.84 | | 164 | Monolayer effect of a gemini surfactant with a rigid biphenyl spacer on its self-crystallization at the air/liquid interface | Q. B. Chen, J. Y. Yao, X. Hu, J. C. Shen, Y. J. Shen（沈永嘉）g and H. L. Liu（刘洪来） | 刘洪来 | Journal of Applied Crystallography | 2015, 48: 728-735. | 3.72 | | 165 | Asymmetric transfer hydrogenation of ketones catalyzed by thermoregulated ionic liquid-regulating ruthenium complexes | Xuerui Liu, Chen Chen, Yuhe Xiu, Angjun Chen, Li Guo, Ran Zhang, Jizhong Chen, Zhenshan Hou\*(侯震山） | 侯震山 | Catalysis Communications | 2015, 67: 90–94 | 3.699 | | 166 | The effects of the presence of metal Fe in the CO oxidation over Ir/FeOx catalyst | Y. H. Zhang, Y. D. Wu, H. F. Wang（王海丰）, Y. Guo（郭耘）, L. Wang, W. C. Zhan, Y. L. Guo（郭杨龙） and G. Z. Lu（卢冠忠） | 卢冠忠 | Catalysis Communications | 2015, 61: 83-87. | 3.699 | | 167 | Enhancing the photocatalytic activity of CdS nanorods for selective oxidation of benzyl alcohol by coating amorphous TiO2 shell layer | Y, Liu, P. Zhang, B. . Tian (田宝柱）J.L. Zhang（张金龙） | 张金龙 | Catalysis Communications | 2015, 70, 30-33 | 3.699 | | 168 | A Sc(OTf)3-catalyzed cascade reaction of o-aminoacetophenone with methanamine: construction of dibenzo[b,h][1,6]naphthyridine derivatives | Dan Mao, Jun Tang, Wenbo Wang, Xin Liu, Shengying Wu, Jianjun Yu and Limin Wang\* | 王利民 | Organic & Biomolecular Chemistry | 2015, 13, 2122-2128 | 3.562 | | 169 | Enantioselective synthesis of 4-substituted tetrahydroisoquinolines via palladium-catalyzed intramolecular Friedel-Crafts type allylic alkylation of phenols | Z. L. Zhao, Q. L. Xu, Q. Gu, X. Y. Wu（伍新燕） and S. L. You | 伍新燕 | Organic & Biomolecular Chemistry | 2015, 13(10): 3086-3092. | 3.562 | | 170 | Linker effect of ethylenedioxythiophenes in platinum acetylide sensitizers with hybrid starburst donors for dye-sensitized solar cells | Z. Y. Li, Z. W. Zheng, Y. Hu, Y. Wang, J. L. Hua, H. B. Yang, W. J. Wu（武文俊） | 武文俊 | Solar Energy | 2015, 118, 441 | 3.469 | | 171 | Efficient CO2 capture by triptycene-based microporous organic polymer with functionalized modification | Yan He, Xiang Zhu, Yankai Li, Changjun Peng\*, Jun Hu, Honglai Liu（刘洪来） | 刘洪来 | Microporous and Mesoporous Materials | 214, 2015: 181-187 | 3.453 | | 172 | Aldehyde-functionalized mesostructured cellular foams prepared by copolymerization method for immobilization of penicillin G acylase | Z. Y. Gao, W. C. Zhan, Y. S. Wang, Y. Guo（郭耘）, L. Wang, Y. L. Guo（郭杨龙） and G. Z. Lu（卢冠忠） | 卢冠忠 | Microporous and Mesoporous Materials | 2015, 202: 90-96. | 3.453 | | 173 | Preparation and photoluminescence properties of hexagonal mesoporous YVO4:Eu3+ ellipsoids | M. Wang, G. Z. Lu（卢冠忠）, Y. Q. Wang（王艳芹）, Y. L. Guo（郭杨龙） and Y. Guo（郭耘） | 卢冠忠 | Microporous and Mesoporous Materials | 2015, 207: 163-169. | 3.453 | | 174 | Effect of surface functionalization of cerium-doped MCM-48 on its catalytic performance for liquid-phase free-solvent oxidation of cyclohexane with molecular oxygen | Y. Fu, W. C. Zhan, Y. L. Guo, Y. Q. Wang, X. H. Liu, Y. Guo, Y. S. Wang, G. Z. Lu（卢冠忠） | 卢冠忠 | Microporous and Mesoporous Materials | 2015, 214: 101-107 | 3.453 | | 175 | A Cucurbit[7]uril Based Molecular Shuttle Encoded by Visible Room Temperature Phosphorescence Addresses | Yifan Gong, Hui Chen, Xiang Ma（马骧） and He Tian | 田禾 | ChemPhysChem | 2015, DOI: 10.1002/cphc.201500901 | 3.419 | | 176 | Mass Preparation and Novel Visible Light Photocatalytic Activity of C and Ag Co-modified ZnO Nanocrystals | Xiao-Yan Zhang, Ya-Juan Deng, Jin-Ku Liu\*, Xiao-Hong Yang, | 刘金库 | Journal of Colloid and Interface Science | 2015, 459, 1-9. | 3.368 | | 177 | Promotional effect of cerium on Mo-V-Te-Nb mixed oxide catalyst for ammoxidation of propane to acrylonitrile | G. J. Wang, Y. Guo（郭耘） and G. Z. Lu（卢冠忠） | 卢冠忠 | Fuel Processing Technology | 2015, 130: 71-77. | 3.352 | | 178 | A Perylene-Bridged Switchable 3 Rotaxane Molecular Shuttle with a Fluorescence Output | Z. Q. Cao, H. Li, J. Yao, L. Zou, D. H. Qu（曲大辉） and H. Tian（田禾） | 田禾 | Asian Journal of Organic Chemistry | 2015, 4(3): 212-216. | 3.318 | | 179 | Triazole-linked glycolipids enhance the susceptibility of MRSA to β-lactam antibiotics | X.-L. Hu, D. Li, L. Shao, X. Dong, X.-P. He（贺晓鹏）, G. R. Chen（陈国荣） and D. Chen | 陈国荣 | ACS Medicinal Chemistry Letters | 2015, 6, 793-797 | 3.12 | | 180 | Efficient synthetic supramolecular channels and their light-deactivated ion transport in bilayer lipid membranes | C. Y. Bao（包春燕）, M. X. Ma, F. N. Meng, Q. N. Lin and L. Y. Zhu（朱麟勇） | 朱麟勇 | New Journal of Chemistry | 2015, 39(8): 6297-6302. | 3.086 | | 181 | Benzoyl Peroxide Promoted Radical ortho-Alkylation of Nitrogen Heteroaromatics with Simple Alkanes and Alcohols | L. Fang, L. S. Chen, J. J. Yu and L. M. Wang（王利民） | 王利民 | European Journal of Organic Chemistry | 2015, (9): 1910-1914. | 3.065 | | 182 | Mass production and photoelectric performances of P and AlZnO nanocrystals under different cooling post-processes | Ya-Juan Deng, Yi Lu, Jin-Ku Liu\*, Xiao-Hong Yang | 刘金库 | Journal of Alloys and Compounds | 2015, 648, 438–444. | 2.999 | | 183 | Facile phase control for hydrothermal synthesis of anatase-rutile TiO2 with enhanced photocatalytic activity | H. LI, L. Z. Wang（王灵芝）, J. Y. Lei, J. L. Zhang（张金龙） | 张金龙 | Journal of Alloys and Compounds | 2015, 646: 380-386 | 2.999 | | 184 | Surface modification of TiO2 with g-C3N4 for enhanced UV and visible photocatalytic activity | J. Y. Lei, Y. Chen, F. Shen, L. Z. Wang（王灵芝）, Y. D. Liu and J. L. Zhang（张金龙） | 张金龙 | Journal of Alloys and Compounds | 2015, 631: 328-334. | 2.999 | | 185 | Temperature-Dependent Immobilization of a Tungsten Peroxo Complex That Catalyzes the Hydroxymethoxylation of Olefins | J. Z. Chen, L. Hua, C. Chen, L. Guo, R. Zhang, A. J. Chen, Y. H. Xiu, X. R. Liu and Z. S. Hou（侯震山） | 侯震山 | Chempluschem | 2015, 80: 1029-1037 | 2.997 | | 186 | Production and Photoelectric Activity of P and Al Co-Doped ZnO Nanomaterials | Ya-Juan Deng, Yi Lu, Jin-Ku Liu\*, Xiao-Hong Yang | 刘金库 | European Journal of Inorganic Chemistry | 2015, 2015(22), 3708–3714. | 2.942 | | 187 | Facile Synthesis of Bimodal Mesoporous Fe3O4@SiO2 Composite for Efficient Removal of Methylene Blue | X. J. Tan, L. J. Lu, L. Z. Wang（王灵芝） and J. L. Zhang（张金龙） | 张金龙 | European Journal of Inorganic Chemistry | 2015, (18): 2928-2933. | 2.942 | | 188 | Urethane tetrathiafulvalene derivatives: synthesis, self-assembly and electrochemical properties | X. Sun, G.Q. Lai, Z. F. Li, Y.W. Ma, X.Yuan, Y. J. Shen and C.Y. Wang(王成云) | 王成云 | *Beilstein Journal of Organic Chemistry* | 2015, 11, 2343–2349 | 2.762 | | 189 | Hollow spheric Ag–Ag2S/TiO2 composite and its application for photocatalytic reduction of Cr(VI) | D.D. Zhang, G. Q. Xu and F. Chen (陈锋） | 陈锋 | Applied Surface Science | 2015, 351： 962-968 | 2.711 | | 190 | Highly Enantioselective Michael Addition of Nitroalkanes to Enones and Its Application in Syntheses of (R)-Baclofen and (R)-Phenibut | X. T. Guo, J. Shen, F. Sha and X. Y. Wu（伍新燕） | 伍新燕 | Synthesis-Stuttgart | 2015, 47(14): 2063-2072. | 2.689 | | 191 | Novel A-pi-D-pi-A type molecules based on diphenylamine and carbazole with large two-photon absorption cross section and excellent aggregation-induced enhanced emission property | Y. Y. Wang, G. Q. Lai, Z. F. Li, Y. W. Ma, Y. J. Shen（沈永嘉） and C. Y. Wang（王成云） | 王成云 | Tetrahedron | 2015, 71(18): 2761-2767. | 2.641 | | 192 | A novel colorimetric and fluorescent probe for the highly selective and sensitive detection of palladium based on Pd(0) mediated reaction | K. Wang, G.Q. Lai, Z.F. Li, M. Liu, Y.J. Shen(沈永嘉), and C.Y. Wang(王成云） | 王成云 | Tetrahedron | 2015, 71(41): 7874-7878 | 2.641 | | 193 | Two sensors based on p-extended TTF: synthesis and high selectivity for copper(II) | Y.W Ma, G.Q. Lai, Z.F. Li, W.B. Tan, Y.J. Shen(沈永嘉), and C.Y. Wang(王成云) | 王成云 | Tetrahedron | 2015, 71(46): 8717-8724 | 2.641 | | 194 | Enantioselective 4+2 cycloaddition reaction of alpha,beta-unsaturated imine and methyl vinyl ketone catalyzed by chiral phosphine | G. Wang, R. Rexiti, F. Sha and X. Y. Wu（伍新燕） | 伍新燕 | Tetrahedron | 2015, 71(24): 4255-4262. | 2.641 | | 195 | Primary-secondary diamines catalyzed Michael reaction to generate chiral fluorinated quaternary carbon centers | Y. P. Lu, G. Zou（邹刚） and G. Zhao | 邹刚 | Tetrahedron | 2015, 71(24): 4137-4144. | 2.641 | | 196 | Mass Production, Enhanced Visible Light Photocatalytic Efficiency, and Application of Modified ZnO Nanocrystals by Carbon Dots | X. Y. Zhang, J. K. Liu（刘金库）, J. D. Wang and X. H. Yang | 刘金库 | Industrial & Engineering Chemistry Research | 2015, 54(6): 1766-1772. | 2.587 | | 197 | Optimizing the Chemical Recognition Process of a Fluorescent Chemosensor for alpha-Ketoglutarate | Y. He, Z. Q. Guo, P. W. Jin, C. H. Jiao, H. Tian（田禾） and W. H. Zhu（朱为宏） | 朱为宏 | Industrial & Engineering Chemistry Research | 2015, 54(11): 2886-2893. | 2.587 | | 198 | Synthesis of mesoporous silica-gel core-shell structural microparticles and their multiple drug delivery | Xiangye Li, Dongyan Zhi, Jun Hu, Shouhong Xu, Honglai Liu（刘洪来）, and Ying Hu | 刘洪来 | Drug delivery | 22(1), 2015: 69-78 | 2.558 | | 199 | Ratiometric Hg2+ Sensor Based on Periodic Mesoporous Organosilica Nanoparticles and Forster Resonance Energy Transfer | D. L. Lu, H. Chen, X. F. Yan, L. Z. Wang（王灵芝） and J. L. Zhang（张金龙） | 张金龙 | Journal of Photochemistry and Photobiology a-Chemistry | 2015, 299: 125-130. | 2.495 | | 200 | Template-Free Synthesis of Hollow Anatase TiO2 Microspheres through Stepwise Water-Releasing Strategy | Penghua Wang, LingangYang, LingzhiWang, JinlongZhang（张金龙） | 张金龙 | Mater. Lett. | 2016,164:405-408 | 2.489 | | 201 | Mesoporous spherical silica encapsulating Pd nanoparticles preparedby CO2-induced mircoemulsion and catalytic application in Suzukicoupling reaction | Li Guo, Xiuge Zhao, Ran Zhang, Chen Chen, Jizhong Chen, Angjun Chen, Xuerui Liu,Zhenshan Hou∗（侯震山） | 侯震山 | The Journal of Supercritical Fluids | 2016, 107: 715–722 | 2.380 | | 202 | Synthesis of 4-arylcoumarins via palladium-catalyzed arylation/cyclization of ortho-hydroxylcinnamates with diaryliodonium salts | Y. Yang, J. W. Han, X. S. Wu, S. J. Xu and L. M. Wang（王利民） | 王利民 | Tetrahedron Letters | 2015, 56(24): 3809-3812. | 2.379 | | 203 | Copper-catalyzed synthesis of 1,2-diketones via oxidation of alkynes | N. Xu, D. W. Gu, Y. S. Dong, F. P. Yi, L. Z. Cai, X. Y. Wu（伍新燕） and X. X. Guo | 伍新燕 | Tetrahedron Letters | 2015, 56(12): 1517-1519. | 2.379 | | 204 | Highly enantioselective intramolecular Rauhut-Currier reaction catalyzed by chiral thiourea-phosphine | X. Zhao, J. J. Gong, K. Yuan, F. Sha and X. Y. Wu（伍新燕） | 伍新燕 | Tetrahedron Letters | 2015, 56(19): 2526-2528. | 2.379 | | 205 | Prediction of Ir0.5M0.5O2 (M 5 Cr, Ru or Pb) Mixed Oxides as Active Catalysts for Oxygen Evolution Reaction from First-Principles Calculations | Ya Song, Ji Yang, Xue-Qing Gong（龚学庆） | 龚学庆 | Top Catal | 2015, 58:675-681. | 2.365 | | 206 | A fast approach to optimize dye loading of photoanode via ultrasonic technique for highly efficient dye-sensitized solar cells | Jue Chen, Xing Li, Wenjun Wu, Jianli Hua （花建丽) | 花建丽 | Journal of Energy Chemistry | 2015, 24，750–75 | 2.352 | | 207 | Thermoresponsive behavior and rheology of SiO2-hyaluronic acid/poly(N-isopropylacrylamide) (NaHA/PNIPAm) core-shell structured microparticles | X. Y. Li, R. T. Chen, S. H. Xu, H. L. Liu（刘洪来） and Y. Hu | 刘洪来 | Journal of Chemical Technology and Biotechnology | 2015, 90(3): 407-414. | 2.349 | | 208 | Power factor enhancement via simultaneous improvement of electrical conductivity and Seebeck coefficient in tellurium nanowires/reduced graphene oxide flexible thermoelectric films | Jie Gao, Chengyan Liu, Lei Miao, Xiaoyang Wang, Chao Li, Rong Huang,Yu Chen, Sakae Tanemura | 陈彧 | Synthetic Metals | 2015, 210: 342–351 | 2.252 | | 209 | Enhanced photocatalytic hydrogen evolution activity of CuInS2 loaded TiO2 under solar light irradiation | C. J. Li, Z. H. Xi, W. Z. Fang, M. Y. Xing and J. L. Zhang（张金龙） | 张金龙 | Journal of Solid State Chemistry | 2015, 226: 94-100. | 2.133 | | 210 | Syntheses and crystal structures of four lanthanide complexes based on two tri-protonated hexacarboxylic acids of 1,2,3,4,5,6-cyclohexane-hexacarboxylic acid and mellitic acid | H. Z. Xie and G. Z. Lu（卢冠忠） | 卢冠忠 | Journal of Coordination Chemistry | 2015, 68(10): 1800-1813. | 2.012 | | 211 | The enhanced Fenton-like catalytic performance of PdO/CeO2 for the degradation of acid orange 7 and salicylic acid | L. Ge, C. J. Zang and F. Chen（陈锋） | 陈锋 | Chinese Journal of Catalysis | 2015, 36(3): 314-321. | 1.964 | | 212 | Siloles and Acetenyl Aromatics Copolymers: Synthesis, Characterization and Photophysical Properties | Z. H. He, G. Q. Lai, Z. F. Li, X. Yuan, Y. J. Shen（沈永嘉） and C. Y. Wang（王成云） | 王成云 | Chinese Journal of Chemistry | 2015, 33(5): 550-558. | 1.964 | | 213 | Pd(0)-Catalyzed Benzylation of Indole through η3-Benzyl Palladium Intermediate | Z. L. Zhao, Q. Gu, X. Y. Wu（伍新燕）, S. L. You\* | 伍新燕 | Chin. J. Catal. | 2015, 36 (1), 15-18 | 1.964 | | 214 | A Convenient Preparation of Fluorinating Reagent F-TEDA Bearing Bisphenylsulfonylimide Counterion and Its Fluorination to Oxindoles | W. H. Zhu, X. H. Hu, F. J. Wang, X. J. Yang（杨先金） and X. Y. Wu（伍新燕） | 杨先金 | Chinese Journal of Chemistry | 2015, 33(2): 220-224. | 1.964 | | 215 | Synthesis and Evaluation of Sulfoxide-Functionalized BODIPYs as Chemosensors for Thiols | C. C. Zhao（赵春常） and H. F. Jiang | 赵春常 | Chinese Journal of Chemistry | 2015, 33(7): 711-716. | 1.964 | | 216 | Catalytic activities of CeO2(110)-2 x 1 reconstructed surface | J. Zhang, X. Q. Gong（龚学庆） and G. Z. Lu（卢冠忠） | 卢冠忠 | Surface Science | 2015, 632: 164-173. | 1.925 | | 217 | Unique adsorption behaviors of carboxylic acids at rutile TiO2(110) | Yan-Yan Yu, Xue-Qing Gong（龚学庆） | 龚学庆 | Surface Science | 2015, 641: 82-90. | 1.925 | | 218 | Synthesis and photovoltaic properties of conjugated copolymers containing cyclopentadithiophene and two different electron-deficient moieties in the polymer backbone | C. Li, Y. X. Li, X. Y. Wang, B. Zhang and Y. Chen（陈彧） | 陈彧 | Journal of Polymer Research | 2015, 22(5): . | 1.92 | | 219 | A hybrid method combining an electrochemical technique and fluorescence measurement for the highly selective and sensitive detection of Cd2+ | M. Li , D. W. Li and Y. T. Long（龙亿涛) | 龙亿涛 | Analytical Methods | 2015, 7(2): 472-477 | 1.821 | | 220 | Influence of Cl substitution on the electronic structure and catalytic activity of ceria | L. L. Yin and X. Q. Gong（龚学庆） | 龚学庆 | Science China-Chemistry | 2015, 58(4): 601-606. | 1.695 | | 221 | Realization approach of Pd-only three-way catalysts with high catalytic performance and thermal stability | Y. T. Ren, Q. Shen, Y. Guo, Y. Q. Wang, Y. L. Guo, X. Q. Gong and G. Z. Lu（卢冠忠） | 卢冠忠 | SCIENCE CHINA-CHEMISTRY | 2015, 58(1): 123-130 | 1.695 | | 222 | Recent advances in new-type molecular switches | H. Li and D. H. Qu（曲大辉） | 田禾 | Science China-Chemistry | 2015, 58(6): 916-921. | 1.695 | | 223 | Constructing and enhanced degradation rate of N-AZO/TiO2 core/shell nanocomposite by idiopathic molecular cladding process | Ya-Juan Deng, Jian-Dong Wang, Jin-Ku Liu\*, Qin Tong, Jiang-Jie Wang, Xiao-Hong Yang | 刘金库 | Functional Materials Letters | 2015, 8(6), 1550072. | 1.606 | | 224 | A cucurbit[8]uril recognized rigid supramolecular polymer with photo-stimulated responsiveness | Tiantian Cao, Xuyang Yao, Jing Zhang, Qiaochun Wang（王巧纯）and Xiang Ma（马骧） | 田禾 | Chinese Chemical Letters | 2015, 26(7), 867-871 | 1.587 | | 225 | Recent progress in catalytic selective dehydration of sorbitol | Yuhe Xiu , Wenwen Zhu, Zhenshan Hou(侯震山） | 侯震山 | Chinese Science Bulletin | 2015 , 60: 1443-1451 | 1.579 | | 226 | Highly Enantioselective Intramolecular Morita-Baylis-Hillman Reaction Catalyzed by Mannose-based Thiourea-phosphine | W. H. Yang, K. Yuan, H. L. Song, F. Sha, X. Y. Wu（伍新燕） | 伍新燕 | Chin. J. Chem. | 2015, 33 (10), 1111-1114 | 1.578 | | 227 | Enantioselective allylic amination of Morita-Baylis-Hillman acetates catalyzed by chiral thiourea-phosphine. | Xuan Zhao, Tianchen Kang, Jie Shen, Feng Sha, **Xinyan Wu**（伍新燕） | 伍新燕 | Chin. J. Chem. | 2015, 33: 1333-1337 | 1.578 | | 228 | Polymethacrylates with pendant charge-transporting groups synthesized via RAFT polymerization | Ping Zhao（赵平）, H.J. Niu, G.F. Liu, W. Ye | 赵平 | Polym. Bull. | 2015, 72: 19-33 | 1.438 | | 229 | Fluorescent switch based on the oxidation of tetrathiafulvalene | Rui Huang，Hujin Zuo，Lei Zhang，Chengyun Wang， Yongjia Shen（沈永嘉）. | 沈永嘉 | Polym. Bull. | 2015, 72 (10): 2527-2536 | 1.438 | | 230 | Synthesis and Photovoltaic Performance of (Octyloxyphenyl)pyrido- 3,4-b pyrazine-based Sensitizers for Dye-sensitized Solar Cells | X. Y. Zhang, W. J. Ying, W. J. Wu, J. Li and J. L. Hua（花建丽） | 花建丽 | Acta Chimica Sinica | 2015, 73(3): 272-280. | 1.426 | | 231 | Extraction of Copper from Aqueous Solution with Functional Ionic Liquids: Experiment and Theoretical Calculation | M. Y. Liu, J. I. Che, W. H. Wu, Y. X. Lu, C. J. Peng, H. L. Liu（刘洪来）, H. Lu, Q. Yang and H. L. Wang | 刘洪来 | Acta Chimica Sinica | 2015, 73(2): 116-125. | 1.426 | | 232 | Recyclable Ag@AgBr-gelatin film with superior visible-light photocatalytic activity for organic degradation | J. Zhu, B. Z. Tian（田宝柱）, J. L. Zhang（张金龙） | 张金龙 | Res. Chem. Intermed | 2015, 41, 9715-9730 | 1.221 | | 233 | Study of the factors inﬂuencing the photo-stability of Ag@AgBr plasmonic photocatalyst | Q. S. Qao, F. Yang, B. Z. Tian（田宝柱）, J. L. Zhang（张金龙） | 张金龙 | Res. Chem. Intermed | 2015, 41, 7285-7297 | 1.221 | | 234 | Detailed study of Ce and C codoping on the visible light response of titanium dioxide | M. Nasir, J. L. Zhang（张金龙）, F. Chen（陈锋） and B. Z. Tian（田宝柱） | 张金龙 | Research on Chemical Intermediates | 2015, 41(3): 1607-1624. | 1.221 | | 235 | Synthesis and proton-induced fluorescence "OFF-ON" switching of a new D-pi-A type pyran dye | Z. D. Tian, Y. C. Liu, B. Z. Tian（田宝柱） and J. L. Zhang（张金龙） | 张金龙 | Research on Chemical Intermediates | 2015, 41(2): 525-533. | 1.221 | | 236 | The synthesis and fluorescence properties of novel 1,8-naphthalimide derivatives | Z. D. Tian, Y. C. Liu, B. Z. Tian（田宝柱） and J. L. Zhang（张金龙） | 张金龙 | Research on Chemical Intermediates | 2015, 41(2): 1157-1169. | 1.221 | | 237 | Synthesis of 4,4’-dimethoxy-3,3’-Bithiophene | Hujin Zuo, Rui Huang , Qisong Zhang, Chengyun Wang and Yongjia Shen（沈永嘉） | 沈永嘉 | Res Chem Intermed | 2015, 41:6385–6391 | 1.221 | | 238 | Epoxidation of propylene by molecular oxygen over unsupported AgCux bimetallic catalyst | X. Zheng, Y. L. Guo（郭杨龙）, Y. Guo（郭耘）, Q. Zhang, X. H. Liu, L. Wang, W. C. Zhan and G. Z. Lu（卢冠忠） | 卢冠忠 | Rare Metals | 2015, 34(7): 477-490. | 1.009 | | 239 | Co-catalysis between DABCO and Brønsted acid in the catalytic [4+2] annulation of isatin with but-3-yn-2-one and mechanistic investigation. | Qiang Wang, Qin Xu, Min Shi（施敏） | 施敏 | Organic Chemistry Frontiers | 2015, *2*, 211-215 | pending | | 240 | Metal free access to amide compounds via peroxide-mediated N=N double bond cleavage of azobenzenes | Gang Hong, Dan Mao, Xiaoyan Zhu, Shengying Wu and Limin Wang\* | 王利民 | Organic Chemistry Frontiers | 2015, 2, 985–989 | pending |   **发明专利：中国发明专利授权24项。**   | **序号** | **知识产权名称** | **完成人** | **授权号** | **授权时间** | **专利类型** | | --- | --- | --- | --- | --- | --- | | 1 | 罗丹明糖类化合物及其用途 | 贺晓鹏；陈国荣；李佳；张海霖；臧奕；姬丁坤 | ZL 2006 1 0027391.1 | 2015.7.15 | 中国发明专利 | | 2 | 吡啶并[3，4-b]吡嗪衍生物及其用途 | 花建丽,应伟江,郭福领,金斌，武文俊,李晶,田禾 | CN 102977093 B | 2015.4.15 | 中国发明专利 | | 3 | 一种高效磷酸锌微纳米防腐剂的制备方法 | 刘金库 | ZL201210569946.0 | 2015.9.30 | 中国发明专利 | | 4 | 制备吡咯并吡咯-1,4-二酮衍生物的方法改进 | 沈永嘉；张伟；张毅吉；张志刚；施健美 | ZL201210523913.2 | 2015.5.27 | 中国发明专利 | | 5 | 一种制备3-(4’-氯丁基)-5-氰基吲哚的方法 | 沈永嘉；施健美；过介生；黄睿；王成云；周长凯；陶建伟 | ZL201310749482.6 | 2015.8.19 | 中国发明专利 | | 6 | 一种由多功能催化剂一步法高效制备长链烷烃的新技术 | 王艳芹，夏启能 | ZL201210265948.0 | 2015.03.18 | 中国发明专利 | | 7 | 一种制备多级孔沸石分子筛微球的方法 | 王艳芹，陶海祥 | ZL201310204099.2 | 2015.09.23 | 中国发明专利 | | 8 | 一种环己烷选择性氧化制备环己酮和环己醇的方法 | 王艳芹，任家文 | ZL201210138434.9 | 2015.03.18 | 中国发明专利 | | 9 | 表吲哚二酮衍生物及其用途 | 王利民 | ZL 201310095849.7 | 2015.4.15 | 中国发明专利 | | 10 | 制备表吲哚二酮及其衍生物的方法 | 王利民 | ZL 201310097274.2 | 2015.4.15 | 中国发明专利 | | 11 | 氨基改性聚硅氧烷共聚物及其用途 | 王利民 | ZL 201310014236.6 | 2015.4.15 | 中国发明专利 | | 12 | 合成喹酞酮黄的方法 | 王利民 | ZL 201210538572.6 | 2015.5.15 | 中国发明专利 | | 13 | 甲基叔戊基醚裂解制备异戊烯的催化剂及制备方法与应用 | 王筠松 | ZL 201310021288.6 | 2015.1.21 | 中国发明专利 | | 14 | 一种用于制备高纯度异丁烯的催化剂及制备方法与应用 | 王筠松 | ZL 201310021291.8 | 2015.1.21 | 中国发明专利 | | 15 | 一种环保型低温高效金属清洗剂 | 王筠松 | ZL 201310021295.6 | 2015.7.22 | 中国发明专利 | | 16 | 固定生物酶的核壳式超顺磁性聚合物微球及其制备方法 | 郭杨龙 | ZL 201310021537.1 | 2015.3.18 | 中国发明专利 | | 17 | 一种银/卤化银薄膜的制备方法 | 田宝柱等 | ZL201310465684.8 | 2015.3.25 | 中国发明专利 | | 18 | 一种珊瑚状多孔溴碘化银/银光催化剂的制备方法 | 田宝柱等 | ZL201310259971.3 | 2015.7.15 | 中国发明专利 | | 19 | 一种立方体二氧化硅空壳的制备方法 | 田宝柱等 | ZL201310239204.6 | 2015.3.25 | 中国发明专利 | | 20 | 一种棒状钒酸银光催化材料及其制备方法 | 田宝柱等 | ZL201210531539.0 | 2015.3.25 | 中国发明专利 | | 21 | 一种制备不对称罗丹明的方法， | 张金龙等 | ZL201110201694.1 | 2015.7.1 | 中国发明专利 | | 22 | 一种用于水中氯苯酚类化合物低温催化加氢消除的催化剂及其制备与应用 | 程岭，戴启广，王幸宜 | ZL 2013 1 0695261.5 | 2015.10.23 | 中国发明专利 | | 23 | 片状纳米氧化铈的制备方法ZL 2014 10192456.2 | 戴启广，白树行，王建伟，王幸宜 | Zl 2014 10192456.2 | 2015.12.9 | 中国发明专利 | | 24 | 一种金属覆膜纳米孔离子电流-散射光高速同步检测装置 | 龙亿涛 | CN204718957U | 2015.10.21 | 中国发明专利 |  科研获奖情况：  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **序号** | **获奖名称** | **完成人** | **获奖类型** | **获奖时间** | | 1 | 稀土铈基催化剂制备及其在工业氯代烃类废气低温催化消除中的应用 | 王幸宜，周仁贤，陈柬，戴启广 | 高等学校科学研究优秀成果奖科技进步二等奖 | 2015 | | 2 | 稀土铈基复合氧化物催化剂的制备及其在工业氯代烃类废气低温催化消除中的应用 | 王幸宜，周仁贤，陈柬，戴启广 | 上海市科技进步奖二等奖 | 2015 | | 3 | 2010-2014年度上海市侨界杰出人物提名奖 | 龙亿涛 |  | 2015 | | 4 | 2015年度研究生课程优秀任课教师 | 王利民 | 三等奖 | 2015 | |

**2、承担科研任务**

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| --- |
| 概述实验室本年度科研任务总体情况。    2015年在研科研项目113项，科研经费总到款3260万元；其中973、863和国家重大科技专项项目（包括合作项目）5项，到款350.6万元；国家自然科学基金项目58项，到款金额2600万余元，其他项目50项，到款846万余元。  |

请选择本年度内主要重点任务填写以下信息：

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **序号** | **项目/课题名称** | **编号** | **负责人** | **起止时间** | **经费(万元)** | **类别** |
| 1 | 界面光电分析化学基础研究 | 91233207 | 龙亿涛 | 2015.01-2020.12 | 200 | 国家级 |
| 2 | 肿瘤特异性血清标志物的分子诊断 | 21420102004 | 田禾 | 2013.01-2017.08 | 200 | 973项目 |
| 3 | 用于单分子间弱相互作用研究的光电分析系统 | 21125522 | 龙亿涛 | 2014.01-2018.12 | 455 | 国家级 |
| 4 | CO的常温吸附/催化过程与纳米催化材料的设计合成与性能 | 2012AA062703 | 郭杨龙 | 2013.01-2017.08 | 97.5 | 科技部重大研究计划 |
| 5 | 光化学手段构建生物医药材料 |  | 朱麟勇 | 2015.1-2018.12 | 200 | 国家杰出青年科学基金 |
| 6 | 可调控的双稳态、多稳态功能分子体系和分子机器 | 2013CB733702 | 田禾 | 2012.01-2016.12 | 120 | 国基金重点项目 |
| 7 | 精细有机化工 |  | 朱为宏 | 2014.01-2017.12 | 120 | 国家杰出青年科学基金项目 |
| 8 | 多相反应过程中的表界面结构和相际传递现象研究 |  | 刘洪来 | 2014.01-2017.12 | 90 | 国家自然科学基金重大研究计划重点项目 |
| 9 | 高性能稀土基汽车尾气净化催化器研发及国V催化器产业化 |  | 郭耘 | 2013.01-2015.12 | 0 | 省部委重点项目 |
| 10 | 高性能染料敏化太阳电池材料的创新设计与可控制备 |  | 田禾 | 2013.01-2016.12 | 90 | 国基金重点项目 |
| 11 | 光电功能分子设计及其表界面特性研究 |  | 田禾 | 2015.01-2019.12 | 100 | 国基金国际(地区)合作与交流项目 |
| 12 | 电分析化学 |  | 龙亿涛 | 2012.01-2015.12 | 240 | 国家级 |
| 13 | 城市地下空间机动车排放污染物净化技术与示范 |  | 卢冠忠 | 2012.01-2015.12 | 73 | 国家863计划 |
| 14 | 生物质衍生物高效利用催化剂的设计与制备 |  | 王艳芹 | 2011.11-2015.11 | 40 | 国家，中央高校基本科研业务费 |
| 15 | 分子探针识别肿瘤特异性血清标志物的基础研究 |  | 朱为宏 | 2013.01-2016.12 | 28 | 973计划 |
| 16 | 生物质制备呋喃二甲酸和异山梨醇的研究 | ST14010 | 王艳芹 | 2014.01-2016.12 | 20 | 中石化 |
| 17 | 典型挥发性有机化合物催化氧化治理技术研究及示范 | 15DZ1205305 | 卢冠忠 | 2015.7-2016.6 | 80 | 省部委重点项目 |
| 18 | 铷盐对典型大气污染物催化净化性能影响的评价及催化剂开发 | / | 郭耘 | 2015.7-2016.12 | 20 | 企业委托项目 |
| 19 | 一种丙烯液相环氧化反应制环氧丙烷的催化剂及其制备方法 | / | 卢冠忠 | 2015.5-2020.12 | 50 | 企业委托项目 |
| 20 | 糖平台出发经催化转化制生物航煤的基础研究 | ST11506 | 王艳芹 | 2015.01-2017.12 | 40 | 中石化 |
| 21 | 高效量子点敏化太阳电池 | 91433106 | 钟新华 | 2015.01-2017.12 | 30 | 国家级 |
| 22 | 单分子共轭聚合物的电致发光探测 | 21561162003 | 刘培念 | 2016.01-2019.12 | 0 | 国家自然科学基金委与香港研究资助局联合科研基金项目 |
| 23 | 上海市“东方学者”特聘教授 | 无 | 刘培念 | 2015.06-2018.05 | 40 | 上海市人才计划 |
| 24 | 密度泛函理论计算在多相催化研究中的应用 | 21322307 | 龚学庆 | 2014.01-2016.12 | 40 | 国家自然科学基金“优秀青年科学基金”项目 |
| 25 | 基于若干π-体系的途径可控串联反应研究 | K100-4-1535 | 施敏 | 2015.10-2019.09 | 37.5 | 国家级 |
| 26 | 基于表面自组装的新型共价体系之构建与性能研究 | 91227201 | 解永树 | 2013.01-2016.12 | 54 | 国家级 |
| 27 | 光控单分子人工离子通道的分子工程及其在生物医药领域的应用研究 | 21472044 | 包春燕 | 2015.01-2018.12 | 38.25 | 国家自然科学基金 |
| 28 | 基于钛基多孔光催化材料光还原CO2的研究 | 21377038 | 张金龙 | 2014.01-2017.12 | 20 | 张金龙 |
| 29 | 新型线性共轭多吡咯和异卟啉的合成与锌离子荧光探针研究 | 21472047 | 解永树 | 2015.01-2018.12 | 36 | 国家级 |
| 30 | 功能化离子液体阳离子和阴离子协同调控的金属纳米颗粒：催化加氢和温控分离 | 21373082 | 侯震山 | 2014.01-2017.12 | 16.6 | 基金委面上项目 |
| 31 | 适用于活细胞内蛋白特异性荧光标记的高时空分辨荧光探针的研究 | 21373084 | 朱麟勇 | 2014.1-2017.12 | 16.4 | 国家自然科学基金 |
| 32 | 生物质衍生物高效利用催化剂的设计与制备 | 21273071 | 王艳芹 | 2013.01-2016.12 | 16.4 | 国家 |
| 33 | 新型二硫化钼糖荧光复合材料的自组装及其癌细胞标记的基础研究 | 21576088 | 陈国荣 | 2016.01-2019.12 | 34 | 国家级（基金委面上） |
| 34 | 双稳态轮烷型功能分子梭的合成及其自组装 | 21272073 | 曲大辉 | 2013.01-2016.12 | 16 | 国家级 |
| 35 | 光化学调控的生物分子机器 | WJ1213007-1 | 曲大辉 | 2012.07-2016.07 | 20 | 省部级 |
| 36 | 国基金面上项目 | NSFC 21272072 | 马骧 | 2013.01-2016.12 | 16 | 国家级 |
| 37 | 基金委面上项目 | 21272069 | 王利民 | 2013.01-2017.12 | 16 | 国家级 |
| 38 | 基于新型烯桥光致变色体系 | WJ1416005 | 朱为宏 | 2014.01-2016.12 | 32 | 省部级（交叉学科与重大项目培育基金） |
| 39 | 高效光催化材料及其应用的基础研究 | 2013CB632403 | 张金龙 | 2013.01-2017.03 | 15 | 张金龙 |
| 40 | 基于TiO2@Ru-AgBrI弱可见光驱动光催化剂的构建及其降解室内VOCS的研究 | 21277046 | 田宝柱 | 2012.01-2016.12 | 16 | 国家级 |
| 41 | 靶向激活型香豆素光扳机修饰的生物高分子光控释放体系的设计及研究 | 51273064 | 包春燕 | 2013.01-2016.12 | 16 | 国家自然科学基金 |
| 42 | 基于聚集诱导发光的有机双光子荧光传感器 | 21372082 | 花建丽 | 2014.01-2017.12 | 16 | 国家级 |
| 43 | 钌络合物催化的炔类化合物内型环异构化反应及相关反应研究 | 21372072 | 刘培念 | 2014.01-2017.12 | 40 | 国家自然科学面上基金 |
| 44 | 整体式催化剂评价系统的设计与建立K50041504 | / | 王丽 | 2015.07-2016.07 | 0 | 企业委托项目 |
| 45 | 新型探测禽流感病毒的糖荧光探针构建 | 21572058 | 贺晓鹏 | 2016.01-2019.12 | 32.5 | 国家级（基金委面上） |
| 46 | 向日葵[n]环脲大环分子的合成及其超分子行为研究 | 21572063 | 王巧纯 | 2016.01-2019.12 | 32.5 | 国基金 |
| 47 | 催化氧化模块采购合同 | / | 郭耘 | 2015.06-2015.12 | 0 | 企业委托项目 |
| 48 | 基于密度泛函理论计算和进化算法的多相催化材料结构与活性研究 | 21573067 | 龚学庆 | 2016.01-2019.12 | 32.5 | 国家自然科学基金面上项目 |
| 49 | Ag/AgX(X=Cl,Br,I)基光催化材料SPR效应与其光电和光催化性能关系的理论研究 | 21573069 | 田宝柱 | 2016.1-2019.12 | 33 | 国家级 |
| 50 | 四硫代富瓦烯修饰的可溶性聚（3,4-二氧丙基噻吩）电致变色性能的研究 | -21576087 | 沈永嘉 | 2016.01-2019.12 | 32.5 | 国家级 |
| 51 | 宽操作温度窗口和高稳定性的NOx选择性还原催化剂的研究 | 21577034 | 卢冠忠 | 2016.01-2019.12 | 32.5 | 基金委面上项目 |
| 52 | 铂族金属表面化学状态的控制与CO低温催化氧化 | 21571061 | 郭耘 | 2016.01-2019.12 | 32.5 | 基金委面上项目 |
| 53 | 工业挥发性有机废气（VOVS)催化氧化脱除应用技术开发 | / | 郭杨龙 | 2015.07-2017.12 | 45 | 企业委托项目 |
| 54 | 三维石墨烯/铁氧化物复合光催化剂的制备及其光芬顿降解有机污染物的研究 | 21577036 | 邢明阳 | 2016.01-2019.12 | 32.5 | 国家级 |
| 55 | 基于量子点光诱导电子转移机制的可见光控制抗癌药物靶向释放的纳米载药体系 | 21173078 | 朱麟勇 | 2012.01-2015.12 | 0 | 国家自然科学基金 |
| 56 | 用于氯乙烯催化燃烧反应的Co3O4基催化剂的理性设计、制备与构效关系研究 | 21577035 | 郭杨龙 | 2016.01-2019.12 | 31.5 | 基金委面上项目 |
| 57 | 致霾汽车尾气治理纳米催化材料的关键技术和工程应用 | 2015AA034603 | 王丽 | 2015.01-2018.12 | 33 | 863计划 |
| 58 | CeO2/H2O2体系光催化降解农药污染物研究 | 21177039 | 陈锋 | 2012.01-2015.12 | 0 | 国家级 |
| 59 | 稀土复合氧化物负载钯催化剂的制备及甲烷催化燃烧反应的研究 | 21171055 | 郭耘 | 2013.01-2016.12 | 0 | 基金委面上项目 |
| 60 | 高通量优选仪器开发及应用 | 2012YQ15008706 | 朱为宏 | 2013.01-2016.12 | 10.2 | 国家重大科学仪器设备开发专项 |
| 61 | 大孔-介孔钛氧锂离子筛的制备及其锂离子吸附性能研究 | U1407102 | 王灵芝 | 2015.01-2017.12 | 20 | 国家级 |
| 62 | 新型自组装糖醌单分子层构建及其糖—蛋白特异识别的电化学传感 | 21176076 | 陈国荣 | 2012.01-2015.12 | 0 | 国家级（基金委面上） |
| 63 | 新型钌络合物催化的Click反应和1,3-二羰基化合物对烯烃的反马氏规则加成反应及其机理研究 | 21172069 | 刘培念 | 2012.01-2015.12 | 0 | 国家自然科学基金面上基金 |
| 64 | 一种整体式催化剂活性涂层的制备方法 | / | 郭耘 | 2013.03-2018.02 | 10 | 企业委托项目 |
| 65 | 用于以天然气为燃料的汽车尾气净化的三效催化剂及制法 | / | 郭耘 | 2013.03-2018.02 | 10 | 企业委托项目 |
| 66 | 用于以液化石油气为燃料的汽车尾气净化的三效催化剂 | / | 郭耘 | 2013.03-2018.02 | 10 | 企业委托项目 |
| 67 | 高效、多模式一体化抗生素医药工业废水处理试剂的制备、表征及性能研究 | 14230710500 | 王灵芝 | 2014.11-2017.10 | 20 | 省部级 |
| 68 | 新世纪优秀人才支持计划 | NCET-13-0798 | 刘培念 | 2014.01-2016.12 | 0 | 教育部人才计划 |
| 69 | 用于高含水量丙烯酸废气净化的整体式催化剂及其制备方法 | / | 郭杨龙 | 2013.09-2015.12 | 5 | 企业委托项目 |
| 70 | 有机光电功能材 | 15XD1501400 | 朱为宏 | 2015.01-2016.12 | 40 | 上海市领军人才 |
| 71 | 界面光电分析新方法与新技术 | 15XD1501200 | 龙亿涛 | 2015.01-2017.12 | 40 | 省部级 |
| 72 | 氯化氢催化氯化制氯气工业产业化关键技术开发 |  | 郭杨龙 | 2013.06-2015.06 | 0 | 其他纵向项目 |
| 73 | 新型高效改性TiO2-石墨烯复合光催化剂的制备、表征及其降解有机污染物的研究” | 20120074130001 | 张金龙 | 2013.01-2015.12 | 32 | 张金龙 |
| 74 | 基于卤化银复合半导体的能级和晶面调控及其选择性光电催化反应 | 13NM1401000 | 田宝柱 | 2013.10-2016.09 | 8 | 省部级 |
| 75 | 基础科研业务费 |  | 刘金库 | 2015.01-2015.12 | 40 | 其他 |
| 76 | 糖基石墨烯纳米荧光探针探测肝癌细胞的基础研究 | 13NM1400900 | 陈国荣 | 2013.09-2016.08 | 0 | 省部级（重点） |
| 77 | 近红外p-型染料敏化剂的合成及其光解水制氢性能研究 | 21572062 | 花建丽 | 2016.01-2017.12 | 30 | 国家级 |
| 78 | 氯化氢催化氧化催化剂在化工区适应性及性能优化研究 | / | 郭杨龙 | 2015.01-2016.12 | 8 | 企业委托项目 |
| 79 | 基于α-溶血素纳米孔的淀粉样β肽单分子分析 | 20875030 | 龙亿涛 | 2009.01-2011.12 | 32 | 国家级 |
| 80 | 石墨烯基复合糖基载药体系的构建与靶向诊疗研究 | 15540723800 | 贺晓鹏 | 2015.10-2018.09 | 0 | 省部级（其他纵向项目） |
| 81 | 新型单分子器件的构建及单分子导电性的研究 | 13NM1400802 | 刘培念 | 2013.09-2016.08 | 24 | 上海市科委基础研究重点项目 |
| 82 | 基于可见光激活生物偶联反应的3D细胞机制的原位构建 | 51403061 | 林秋宁 | 2015.01-2017.12 | 15 | 国家自然科学基金 |
| 83 | 生物质转化合成高性能聚碳酸酯的关键技术及其绿色化工工艺 | WD1113011-1 | 侯震山 | 2012.01-2015.12 | 5 | 其它项目 |
| 84 | 高性能碳烟燃烧复合氧化物催化剂的设计与制备 | 21207037 | 王丽 | 2013.01-2015.12 | 0 | 基金委青年项目 |
| 85 | 化学加热型新型卷烟反应体系和反应装置的研究 | / | 詹望成 | 2014.10-2016.10 | 7.5 | 企业委托项目 |
| 86 | 新型高效 TiO2-石墨烯复合光催化剂的制备、表征及其降解环境污染物的研究 | 21203062 | 邢明阳 | 2013.1-2015.12 | 5 | 国家级 |
| 87 | 新型光控智能有机小分子凝胶的合成及性能研究 | 21302056 | 邹雷 | 2014.01-2016.12 | 10 | 国基金 |
| 88 | RAFT 方法制备具有双重响应性的共聚物传感器及其溶液自组装 | 61306022 | 赵平 | 2014.1-2016.12 | 25 | 国家自然科学青年基金 |
| 89 | 生物醌复合纳米探针的光电生物传感研究 | 21305045 | 马巍 | 2013.01-2016.12 | 25 | 国家级 |
| 90 | 石墨烯堆叠效应诱导的“糖电极”简易自组装及其生物传感 | 21202045 | 贺晓鹏 | 2013.01-2015.12 | 0 | 国家级（基金委青年） |
| 91 | 新型亚氨基联芪类太阳能电池敏化染料的合成及光伏性能研究 | 21302055 | 李晶 | 2014.01-2016.12 | 10 | 国家自然科学基金 |
| 92 | 教育部中央高校基本科研业务费 | WJ1514309 | 马骧 | 2015.11-2017.11 | 12 | 其他 |
| 93 | 面向理性设计的复杂多相催化体系反应动力学计算研究 |  | 王海丰 | 2014.07-2016.06 | 0 | 其他纵向项目 |
| 94 | 糖荧光探针在癌细胞识别中的“石墨烯尺寸效应” | WJ1414010 | 贺晓鹏 | 2014.06-2016.05 | 8 | 省部级（其他纵向项目） |
| 95 | 满足国V排放标准柴油车尾气NOx净化催化剂的研究 | WJ1514020 | 詹望成 | 2015.01-2016.12 | 16 | 其他 |
| 96 | 基于CeO2的类Fenton体系处理水体中环境内分泌干扰物研究 | 13ZZ042 | 陈锋 | 2013.01-2015.12 | 0 | 其他 |
| 97 | 金属氧化物多相催化材料的密度泛函理论研究 |  | 龚学庆 | 2014.01-2016.12 | 0 | 上海市曙光学者 |
| 98 | 稀土复合贵金属催化剂的设计制备及在甲烷催化燃烧反应中的应用 |  | 郭耘 | 2013.01-2015.12 | 0 | 上海市曙光学者 |
| 99 | 信号放大的纳米探针在肿瘤早期诊断中的应用研究 | 2014T70398 | 马巍 | 2013.07-2017.06 | 15 | 国家级 |
| 100 | 金属氧化物多相催化材料的密度泛函理论研究 | 13SG30 | 龚学庆 | 2014.01-2016.12 | 0 | 上海市曙光计划项目 |
| 101 | 横向课题 |  | 刘金库 | 2015.01-2016.12 | 13.13 | 其他 |
| 102 | 新型手性膦氮配体的设计合成及其在不对称催化反应中的应用 | 15ZR1409200 | 伍新燕 | 2015.01-2017.12 | 10 | 省部级 |
| 103 | CeO2ZSM-5分子筛膜复合催化材料的制备及其低温催化消除含氯有机污染物的研究 | 13ZR1411000 | 戴启广 | 2013.07-2016.06 | 0 | 其他纵向项目 |
| 104 | 基于第一性原理的钻基尖晶石氯化物材料表面甲烷催化燃烧机理研究 | 13ER1453000 | 曹宵明 | 2013.07-2016.06 | 0 | 其他纵向项目 |
| 105 | 基于介孔的自组装型双光子比率荧光探针的构建及其性能优化 | 14ZR1410700 | 王灵芝 | 2014.11-2017.10 | 10 | 省部级 |
| 106 | 可抛式表面增强拉曼光谱传感器制备及其在水污染事故应急检测中的应用研究 | 14ZR1410800 | 李大伟 | 2014.01-2017.06 | 10 | 省部级 |
| 107 | 等离子体纳米探针用于单细胞内肿瘤抑制蛋白的原位检测 | 2015M570335 | 钱若灿 | 2015.06-2016.10 | 8 | 国家级 |
| 108 | 基于纳米孔的多种microRNA单分子分析研究 | 2015M570336 | 应轶伦 | 2015.05-2016.07 | 8 | 国家级 |
| 109 | 基于手性金属纳米粒子的催化不对称加氢反应以及温控分离 | 15ZZ031 | 侯震山 | 2015.01-2017.12 | 8 | 省部委重大（重点）项目 |
| 110 | 光电生物传感器在肿瘤诊断中的应用研究 | 122315 | 马巍 | 2013.10-2015.10 | 8 | 国家级 |
| 111 | 基于第一性原理计算的CO2光催化转化机制研究及表界面结构调控 |  | 王海丰 | 2014.01-2016.12 | 0 | 上海市晨光学者 |
| 112 | 新型星射状DSSC太阳能电池光电转换材料研究 | KFJJ201311 | 邹雷 | 2013.11-2015.10 | 0 | 其他 |
| 113 | 溶液中晶体表面催化反应的理论和计算模拟 | 2011CB808505 | 龚学庆 | 2011.01-2015.08 | 16.6 | 973计划 |

注：请依次以国家重大科技专项、“973”计划（973）、“863”计划（863）、国家自然科学基金（面上、重点和重大、创新研究群体计划、杰出青年基金、重大科研计划）、国家科技（攻关）、国防重大、国际合作、省部重大科技计划、重大横向合作等为序填写，并在类别栏中注明。只统计项目/课题负责人是实验室人员的任务信息。只填写所牵头负责的项目或课题。**若该项目或课题为某项目的子课题或子任务，请在名称后加\*号标注。**

**三、研究队伍建设**

**1、各研究方向及研究队伍**

|  |  |  |
| --- | --- | --- |
| **研究方向** | **学术带头人** | **主要骨干** |
| 1有机光电功能材料 | 田禾 | 朱为宏，陈彧，花建丽，解永树 |
| 2多相分散系统的分子热力学和分子传递 | 胡英 | 刘洪来，彭昌军，韩霞，陈启斌 |
| 3催化功能材料的设计与制备 | 卢冠忠 | 郭杨龙，郭耘，陈锋 |
| 4微生物采油调控技术及应用 | 牟伯中 | 王幸宜 |
| 5特征污染物现场快速检测技术装备系统 | 龙亿涛 | 黄永民，赵春常 |
| 6复杂材料的介观结构及其演变 | 张金龙 | 田宝柱，王灵芝 |
| 7环境净化材料与清洁能量转换材料的设计、制备及应用 | 王艳芹 | 钟新华，侯震山 |

**2.本年度固定人员情况**

| **序号** | **姓名** | **类型** | **性别** | **学位** | **职称** | **年龄** | **在实验室工作年限** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 胡英 | 研究人员 | 男 | 学士 | 教授 | 82 | 2003年至今 |
| 2 | 田禾 | 研究人员 | 男 | 博士 | 教授 | 54 | 2003年至今 |
| 3 | 卢冠忠 | 研究人员 | 男 | 博士 | 教授 | 59 | 2003年至今 |
| 4 | 刘洪来 | 研究人员 | 男 | 博士 | 教授 | 56 | 2003年至今 |
| 5 | 王艳芹 | 研究人员 | 女 | 博士 | 教授 | 50 | 2004年至今 |
| 6 | 张金龙 | 研究人员 | 男 | 博士 | 教授 | 52 | 2003年至今 |
| 7 | 龙亿涛 | 研究人员 | 男 | 博士 | 教授 | 49 | 2007年至今 |
| 8 | 牟伯中 | 研究人员 | 男 | 博士 | 教授 | 59 | 2003年至今 |
| 9 | 朱为宏 | 研究人员 | 男 | 博士 | 教授 | 46 | 2003年至今 |
| 10 | 施敏 | 研究人员 | 男 | 博士 | 教授 | 53 | 2006年至今 |
| 11 | 陈彧 | 研究人员 | 男 | 博士 | 教授 | 50 | 2004年至今 |
| 12 | 钟新华 | 研究人员 | 男 | 博士 | 教授 | 45 | 2006年至今 |
| 13 | 沈永嘉 | 研究人员 | 男 | 博士 | 教授 | 62 | 2003年至今 |
| 14 | 陈国荣 | 研究人员 | 女 | 学士 | 教授 | 65 | 2003年至今 |
| 15 | 苏建华 | 研究人员 | 男 | 博士 | 教授 | 51 | 2003年至今 |
| 16 | 花建丽 | 研究人员 | 女 | 博士 | 教授 | 52 | 2005年至今 |
| 17 | 郭杨龙 | 研究人员 | 男 | 博士 | 教授 | 46 | 200年至今 |
| 18 | 王幸宜 | 研究人员 | 女 | 硕士 | 教授 | 58 | 200年至今 |
| 19 | 彭昌军 | 研究人员 | 男 | 博士 | 教授 | 52 | 2003年至今 |
| 20 | 王利民 | 研究人员 | 男 | 博士 | 教授 | 52 | 2003年至今 |
| 21 | 解永树 | 研究人员 | 男 | 博士 | 教授 | 45 | 2007年至今 |
| 22 | 朱麟勇 | 研究人员 | 男 | 博士 | 教授 | 44 | 2007年至今 |
| 23 | 侯震山 | 研究人员 | 男 | 博士 | 研究员 | 49 | 2006年至今 |
| 24 | 伍新燕 | 研究人员 | 女 | 博士 | 教授 | 45 | 2003年至今 |
| 25 | 郭耘 | 研究人员 | 男 | 博士 | 教授 | 44 | 2003年至今 |
| 26 | 王巧纯 | 研究人员 | 男 | 博士 | 教授 | 40 | 2003年至今 |
| 27 | 王成云 | 研究人员 | 男 | 博士 | 教授 | 45 | 2005年至今 |
| 28 | 陈锋 | 研究人员 | 男 | 博士 | 教授 | 41 | 2003年至今 |
| 29 | 刘培念 | 研究人员 | 男 | 博士 | 教授 | 41 | 2008年至今 |
| 30 | 黄永民 | 研究人员 | 男 | 博士 | 教授 | 43 | 2003年至今 |
| 31 | 曲大辉 | 研究人员 | 男 | 博士 | 教授 | 36 | 2009年至今 |
| 32 | 赵春常 | 研究人员 | 男 | 博士 | 教授 | 40 | 2008年至今 |
| 33 | 包春燕 | 研究人员 | 女 | 博士 | 教授 | 37 | 2008年至今 |
| 34 | 吴君臣 | 研究人员 | 男 | 博士 | 副教授 | 41 | 2011年至今 |
| 35 | 马骧 | 研究人员 | 男 | 博士 | 副教授 | 36 | 2008年至今 |
| 36 | 武文俊 | 研究人员 | 男 | 博士 | 副教授 | 40 | 2005年至今 |
| 37 | 詹望成 | 研究人员 | 男 | 博士 | 副教授 | 35 | 2007年至今 |
| 38 | 韩霞 | 研究人员 | 女 | 博士 | 副教授 | 43 | 2006年至今 |
| 39 | 陈启斌 | 研究人员 | 男 | 博士 | 副研究员 | 43 | 2007年至今 |
| 40 | 杨先金 | 研究人员 | 男 | 博士 | 副教授 | 48 | 2006年至今 |
| 41 | 邹雷 | 研究人员 | 女 | 博士 | 副教授 | 42 | 2007年至今 |
| 42 | 王灵芝 | 研究人员 | 女 | 博士 | 副教授 | 37 | 2007年至今 |
| 43 | 田宝柱 | 研究人员 | 男 | 博士 | 副研究员 | 47 | 2008年至今 |
| 44 | 邢明阳 | 研究人员 | 男 | 博士 | 副教授 | 31 | 2014年至今 |
| 45 | 李晶 | 管理人员 | 女 | 博士 | 高级工程师 | 37 | 2003年至今 |
| 46 | 刘晓晖 | 管理人员 | 女 | 博士 | 副研究员 | 41 | 2003年至今 |
| 47 | 赵平 | 管理人员 | 女 | 博士 | 讲师 | 42 | 2006年至今 |
| 48 | 张隽佶 | 研究人员 | 男 | 博士 | 讲师 | 31 | 2014年至今 |
| 49 | 梅菊 | 研究人员 | 女 | 博士 | 讲师 | 30 | 2015年至今 |

注：（1）固定人员包括研究人员、技术人员、管理人员三种类型，应为所在高等学校聘用的聘期2年以上的全职人员。（2）“在实验室工作年限”栏中填写实验室工作的聘期。

**3、本年度流动人员情况**

| **序号** | **姓名** | **类型** | **性别** | **年龄** | **职称** | **国别** | **工作单位** | **在实验室工作期限** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 黄锦海 | 博士后 | 男 | 30 |  | 中国 | 上海道亦化工科技有限公司 | 2013.12-2015.12 |
|  | 吴生英 | 博士后 | 女 | 30 |  | 中国 | 华东理工大学 | 2014.09-2016.08 |
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|  |  |  |  |  |  |  |  |  |

注：（1）流动人员包括“博士后研究人员、访问学者、其他”三种类型，请按照以上三种类型进行人员排序。（2）在“实验室工作期限”在实验室工作的协议起止时间。

**四、学科发展与人才培养**

**1、学科发展**

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| 简述实验室所依托学科的年度发展情况，包括科学研究对学科建设的支撑作用，以及推动学科交叉与新兴学科建设的情况。  实验室所依托的应用化学、工业催化和物理化学三个学科均为华东理工大学的历史悠久，实力雄厚的优势学科，其中应用化学和工业催化均为国家重点学科，继续保持国内领先水平。实验室在功能材料的分子设计、介观结构与精细合成、先进制备技术等应用方面开展了大量卓有成效的研究工作，形成了“有机光电功能材料”、“多相分散系统的分子热力学和分子传递”、“催化功能材料的设计与制备”、“微生物采油调控技术及应用”、“特征污染物现场快速检测技术装备系统”、“复杂材料的介观结构及其演变”以及“环境净化材料与清洁能量转换材料的设计、制备及应用”等与实验室的研究方向吻合、紧密联系、相互支撑、具有特色与优势的研究方向。 |

**2、科教融合推动教学发展**

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| 简要介绍实验室人员承担依托单位教学任务情况，主要包括开设主讲课程、编写教材、教改项目、教学成果等，以及将本领域前沿研究情况、实验室科研成果转化为教学资源的情况。  本实验室人员承担了较多应用化学系和化学系专业的本科专业基础课程教学，还承担了大量应用化学、工业催化和物理化学等专业研究生的专业课程教学，实验室的仪器设备为学院相关专业的研究生进行了大量的培训操作工作。实验室立项了多项针对本科生进行科研训练的课题和项目。 |

**3、人才培养**

**（1）人才培养总体情况**

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| 简述实验室人才培养的代表性举措和效果，包括跨学科、跨院系的人才交流和培养，与国内、国际科研机构或企业联合培养创新人才等。  本年度实验室新增教育部长江学者特聘教授1名（朱为宏）；龙亿涛教授2015年6月获2010-2014年度上海市侨界杰出人物提名奖；刘培念教授获2015年上海市教委“东方学者”特聘教授资助；2015年田禾院士领衔的新疆乌鲁木齐市华泰隆化学助剂有限公司院士专家工作站成立，与该企业进行了广泛和深入的产学研合作；张星同学（导师：龙亿涛）获“上海市优秀毕业论文”荣誉称号。 |

**（2）研究生代表性成果（列举不超过3项）**

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| 简述研究生在实验室平台的锻炼中，取得的代表性科研成果，包括高水平论文发表、国际学术会议大会发言、挑战杯获奖、国际竞赛获奖等。  **研究生获奖：**  1 上海市研究生优秀成果（博士论文） 先进材料与制备技术 张斌 陈彧 D-A型电双稳态高分子功能材料的设计及其非易失性存储效应  2 上海市研究生优秀成果（博士论文） 应用化学 林秋宁 朱麟勇 7-氨基香豆素光扳机构建的具有光控性能的生物材料  3 上海市研究生优秀成果（博士论文） 应用化学 张隽佶 田禾 基于光致变色分子开关的新型表面电化学与生物化学体系  4 上海市研究生优秀成果（博士论文） 应用化学 陈尚军 朱为宏 基于苯并噻吩砜烯桥的二噻吩乙烯光致变色体系的构建及性能研究  5 上海市研究生优秀成果（硕士论文） 应用化学 刘钰 龙亿涛 DNA和活性氧自由基的纳米通道传感研究  **部分高水平论文：**   1. Qi Zhang(张琦), Da-Hui Qu(曲大辉), Qiao-Chun Wang, He Tian(田禾). Dual-Mode Controlled Self-Assembly of TiO2 Nanoparticles Through a Cucurbit[8]uril-Enhanced Radical Cation Dimerization Interaction. ***Angew. Chem. Int. Ed.*** **2015**, 54(52), 15789-15793. 2. Yongshu Xie（解永树）, Yunyu Tang(汤云瑜, 博士生), Wenjun Wu, Yueqiang Wang, Jingchuan Liu, Xin Li, He Tian, and Wei-Hong Zhu(朱为宏). Porphyrin Cosensitization for a Photovoltaic Efficiency of 11.5%: A Record for Non-Ruthenium Solar Cells Based on Iodine Electrolyte. ***J. Am. Chem. Soc.***, **2015**, 137 (44), 14055–14058. 3. Da-Wei Li(李大伟，副研究员), Lu-Lu Qu(渠陆陆, 博士生), Kai Hu, Yi-Tao Long（龙亿涛）, He Tian(田禾). Monitoring of Endogenous Hydrogen Sulfide in Living Cells Using Surface-Enhanced Raman Scattering. ***Angew. Chem. Int. Ed***. **2015**, 54(43), 12758–12761. |

**（3）研究生参加国际会议情况（列举5项以内）**

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| --- | --- | --- | --- | --- | --- |
| **序号** | **参加会议形式** | **学生姓名** | **硕士/博士** | **参加会议名称及会议主办方** | **导师** |
| 1 | 展板 | 李腾 | 博士生 | 4th International Supramolecular System Symposium,吉林大学 | 田禾 |
| 2 | 展板 | 李登峰 | 博士生 | 4th International Supramolecular System Symposium,吉林大学 | 田禾 |
| 3 | 展板 | 汪洁 | 博士生 | 4th International Supramolecular System Symposium,吉林大学 | 田禾 |

注：请依次以参加会议形式为大会发言、口头报告、发表会议论文、其他为序分别填报。**所有研究生的导师必须是实验室固定研究人员。**

**五、开放交流与运行管理**

**1、开放交流**

**（1）开放课题设置情况**

|  |  |  |  |  |  |  |
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| 简述实验室在本年度内设置开放课题概况。  本年度实验室设置了3项开放课题，见下表： | | | | | | |
| **序号** | **课题名称** | **经费额度** | **承担人** | **职称** | **承担人单位** | **课题起止时间** |
| 1 | 有机光致变色凝胶 | 2 | 王胜 | 教授 | 岭南师范学院 | 2015.03-2017.03 |
| 2 | 萘酰亚胺荧光探针 | 2 | 邹祺 | 讲师 | 上海电力学院 | 2015.03-2017.03 |
| 3 | 响应型超分子聚合物 | 2 | 孙如意 | 讲师 | 华东师范大学 | 2015.03-2017.03 |

注：职称一栏，请在职人员填写职称，学生填写博士/硕士。

**（2）主办或承办大型学术会议情况**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 序号 | 会议名称 | 主办单位名称 | 会议主席 | 召开时间 | 参加人数 | 类别 |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |

注：请按全球性、地区性、双边性、全国性等类别排序，并在类别栏中注明。

**（3）国内外学术交流与合作情况**

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| 请列出实验室在本年度内参加国内外学术交流与合作的概况，包括与国外研究机构共建实验室、承担重大国际合作项目或机构建设、参与国际重大科研计划、在国际重要学术会议做特邀报告的情况。请按国内合作与国际合作分类填写。  **一．参加国内外学术交流与合作的概况**  1 Fluorogenic glycoprobes for chemical glycobiology 贺晓鹏 "1st Asian Conference on Chemosensor  and Imaging" 2015/11/16 韩国韩国梨花女子大学 区域性  2 Theoretical studies of rare earth catalysis: from clean to supported CeO2 surfaces 龚学庆 249th ACS National Meeting & Exposition 2015.3 Denver, Colorado, 全球性  3 Density functional theory study of transition metal and metal alloy catalysts in energy production. 龚学庆 250th ACS National Meeting & Exposition 2015.8.16-20 美国波士顿 全球性  4 Theoretical studies of rare earth CeO2 catalysis 龚学庆 The 2015 International Chemical Congress of Pacific Basin Societies 2015.12.15-20 美国夏威夷 全球性  5 The Role of Ionic Liquid in Stabilizing Catalysts 侯震山 6th International Congress on Ionic Liquids 2015.06-16-21 韩国济州 全球性  6 Diketopyrrolopyrrole (DPP) dye with aggregation-induced red/NIR emission for in vivo two-photon fluorescence imaging 花建丽 Pacifichem 2015 Conference 2015.12.19 美国夏威夷 全球性  7 Dynamic hydrophobic hindrance effect of zeolite@zeolitic imidazolate framework composites for CO2 capture in the presence of water 高飞 13th international conference on carbon dioxide untilization July 5-9，2015 Singapore 全球性  8 Molecular simulation of CO2 capture performance of polymers with intrinsic microporosity 周建海 13th international conference on carbon dioxide untilization July 5-9，2015 Singapore 全球性  9 Stimuli-Responsive Organic Functional Supramolecular Polymers in Aqueous Solution 马骧 The 8th Sino-US Joint Conference of Chemical Engineering (SUChE 2015) Oct 12-16, 2015 Shanghai 双边性  10 Mesoporous NbOPO4: Synthesis and Application in Biomass Conversion 王艳芹 第九届国际介观材料会议 2015.08 澳大利亚 邀请报告  11 Study of Ir/CeO2-TiO2 catalysts for low temperature CO oxidation 郭耘 250th ACS National Meeting & Exposition 2015年8月16-20日 美国波士顿 全球性  12 Catalytic combustion of vinyl chloride on LaMnO3 perovskite oxidses 王丽 250th ACS National Meeting & Exposition 2015年8月16-20日 美国波士顿 全球性  13 Sterically Hindered Diarylethenes with a Benzobis(thiadiazole) Bridge: Photochemical and Kinetic Studies 朱为宏 10th Phenics International Network Symposium and French-German Winter School 2015.11.23-2015.11.27 法国 特邀报告  14 NIR Fluorescent Organic Nanoprobes: Making a Breakthrough to Practical Application in Bioimaging 朱为宏 The Satellite Meeting of 17th International Conference on Biological Inorganic Chemistry (ICBIC17) 2015.7.18-2015.7.19 大连 全球性，特邀报告  15 NIR Fluorescent Organic Nanoprobes: Making a Breakthrough to Practical Application in Bioimaging 朱为宏 1st Asian Conference on Chemosensors & Imaging Probes 2015.11.16-2015.11.18 韩国 邀请报告  16 D−A−π−A型有机敏化染料 朱为宏 2015年第十四届全国应用化学年会 2015.7.21-2015.7.24 南昌 其他，邀请 报告  17 NIR AIE-Active Fluorescent Nanoprobes based on quinoline-malononitrile 朱为宏 The 2nd International Symposium on Aggregation-Induced Emission (AIE2) 2015.5.15-2015.5.18 广州 全球性，邀请报告  18 Insight into D−A−π−A featured sensitizers: a reliable route to highly efficient and stable dye-sensitized solar cells 朱为宏 ACS AMI Symposium 2015.4.13-2015.4.14 北京 其他，邀请报告  19 Near-Infrared AIE-Active Fluorescent Organic Nanoprobes with Remarkable Tumor-Targeting Efficacy: Shape-Specific Effects via Tailoring Quinoline-Malononitrile 朱为宏 International Conference on Nanomedicine and NanoBiotechnology 2015.4.6-2015.4.10 杭州 全球性，邀请报告  20 An integrated system for optical and electrical detection of single molecules/particles inside a solid-state nanopore. 龙亿涛 Faraday Discussion: Single Molecule Microscopy and Spectroscopy 2015年9月11日－16日 英国 全球性  21 Reliable Detection of Disease Biomarkers with the Naked Eye 龙亿涛 The 7th Catalysis and Sensing for our Environment Symposium 2015年7月8日－7月10日 爱尔兰 全球性  22 Opto-Electrochemistry on Single Nanoparticle 龙亿涛 Electrochemistry in renewable energy based on molecular mechanisms 2015年6月15-6月18日 德国 全球性  23 Quinone/Hydroquinone Functionalized Biointerfaces for Biological Applications from the Macro- to Nano-scale 龙亿涛 XXIII International Symposium on Bioelectrochemistry and Bioenergetics 2015年6月14日－6月18日 瑞典 全球性  24 "Single Nucleotide Discrimination with Electro-optical Nanopore  " 龙亿涛 Selective transport through nanopores: physics meets biology 2015年3月22日－3月27日 瑞士 全球性  25 Monitoring chemical reaction on single nanoparticles using scattering microspectroscopy. 龙亿涛 第三届国际拉曼前沿技术高端论坛 2015年5月6日－5月8日 厦门 全球性  26 出访 龙亿涛 Delft University of Technology 2015年9月8日-9月12日 荷兰 其他  27 出访 龙亿涛 company ION-TOF GmbH 2015年3月22日-3月31日 德国 其他  **二．承担国家自然科学基金委国际(地区)合作与交流项目（中国-以色列）：**21420102004，光电功能分子设计及其表界面特性研究，300 万元，起止时间2015.01-2019.12，华东理工大学。 |

**（4）科学传播**

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| 简述实验室本年度在科学传播方面的举措和效果。  本实验室和国内众多企业单位尽量了大量卓有成效的产学研合作研究，成果丰硕。 |

**2、运行管理**

**（1）学术委员会成员**

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| --- | --- | --- | --- | --- | --- | --- |
| **序号** | **姓名** | **性别** | **职称** | **年龄** | **所在单位** | **是否外籍** |
| 1 | 胡英 | 男 | 院士 | 82 | 华东理工大学 | 否 |
| 2 | 田禾 | 男 | 院士 | 54 | 华东理工大学 | 否 |
| 3 | 周其林 | 男 | 院士 | 59 | 南开大学 | 否 |
| 4 | 丁奎岭 | 男 | 院士 | 50 | 中科院上海有机所 | 否 |
| 5 | 于吉红 | 男 | 院士 | 49 | 吉林大学 | 否 |
| 6 | 张德清 | 男 | 研究员 | 51 | 中科院化学研究所 | 否 |
| 7 | 裴坚 | 男 | 教授 | 49 | 北京大学 | 否 |
| 8 | 李富友 | 男 | 教授 | 43 | 复旦大学 | 否 |
| 9 | 朱为宏 | 男 | 教授 | 46 | 华东理工大学 | 否 |
| 10 | 崔勇 | 男 | 教授 | 45 | 上海交通大学 | 否 |
| 11 | 杨海波 | 男 | 教授 | 40 | 华东师范大学 | 否 |

**（2）学术委员会工作情况**

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| 请简要介绍本年度召开的学术委员会情况，包括召开时间、地点、出席人员、缺席人员，以及会议纪要。  **“结构可控先进功能材料及其制备教育部重点实验室”学术委员会会议纪要**  2015年9月23日，华东理工大学“结构可控先进功能材料及其制备教育部重点实验室”召开了学术委员会通讯会议。会议的主要议题包括：（1）听取基地建设工作汇报；（2）学术委员对基地建设建言献策。现将会议内容纪要如下：  （一）、听取实验室主任田禾院士作基地建设工作汇报。  田禾主任一年来基地的建设情况向学术委员会作了详细的汇报。田主任在报告中指出，本重点实验室围绕科学研究、成果转化、人才培养、学术交流等方面努力开展各项建设工作，取得了显著成效。  1、在科学研究方面：  2015年在研科研项目113项，科研经费总到款3260万元；其中973、863和国家重大科技专项项目（包括合作项目）5项，到款350.6万元；国家自然科学基金项目58项，到款金额2600万余元，其他项目50项，到款846万余元。  发表包括Chemical Reviews；Chemical Society Reviews; Angew. Chem. Int. Ed.; J. Am. Chem. Soc.; Adv. Mater.；ACS Nano.; Chemical Science; Chem. Commun.等国际一流期刊在内的SCI收录论文240篇，其中SCI影响因子大于5的文章102篇。  中国发明专利授权24项。  2、在人才建设方面：本年度共培养博士72人，硕士159人，博士后2名，20多位毕业生获得博士学位，50多人获得硕士学位，其中有4名博士生和1名硕士生获得上海市研究生优秀学位论文奖励。同时，基地高度重视学术队伍的建设和学术骨干与学科带头人的培养，力争形成一支结构优化，高素质、高层次的学术队伍。  3、在学术交流方面：基地积极采取“请进来、走出去”的方式，广泛开展各种学术交流活动，不断扩大基地的影响。2015年本实验室总计接待来访专家、学者22人次。多人赴美国、加拿大、英国等国家建立合作关系。  （二）、学术委员对基地建设建言献策  委员们经认真讨论，肯定了实验室在科学研究、团队建设，人才引进和培养、实验室管理、对外开放及国内外学术交流和合作方面所取得的成就。为了把实验室工作做得更好，对实验室的建设提出了若干建议。  1、实验室局部具有国内领先并接近或达到了国际一流水平，整体还存在差距，表现为：突破点还不多，特色和优势的延伸度不宽；开放和国际化交流程度还有待于进一步提高。需要强化与相关领域国际一流学科间的高层次学术交流，开展多层次合作研究，把握学科前沿和发展方向。  2、国际顶尖的学术带头人才少；进一步吸引国外博士学位获得者来本学科从事博士后研究，选送具有发展潜力的青年骨干去国际一流的大学和研究机构从事研究。  3、研究条件和仪器设备条件尚待进一步改善。希望强化科研基地建设，在建设好已有的教育部重点实验室基础上，早日建设成为国家级重点实验室。 |

**（3）主管部门和依托单位支持情况**

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| 简述主管部门和依托单位本年度为实验室提供实验室建设和基本运行经费、相对集中的科研场所和仪器设备等条件保障的情况，在学科建设、人才引进、团队建设、研究生培养指标、自主选题研究等方面给予优先支持的情况。  依托单位华东理工大学本年度为实验室提供了实验室建设和基本运行经费50万元。在学科建设、人才引进、团队建设、研究生培养指标、自主选题研究等方面给予了大力支持和倾斜。 |

**3、仪器设备**

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| 简述本年度实验室大型仪器设备的使用、开放共享情况，研制新设备和升级改造旧设备等方面的情况。  实验室拥有的包括400M核磁共振波谱仪、液相-质谱联用仪、圆二色光谱仪、荧光光谱测量系统、热重/差热综合热分析仪－全自动气相色谱仪，激光粒度分布仪，全自动比表面积及微孔物理吸附仪，原位质谱检测仪，稳态荧光光谱仪，智能型傅立叶红外光谱仪，紫外可见分光光度计，高效液相色谱仪等320多件（套）。都正常开放共享使用中。 |

**六、审核意见**

**1、实验室负责人意见**

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| 实验室承诺所填内容属实，数据准确可靠。  数据审核人：  实验室主任：  （单位公章）  年 月 日 |

**2、依托高校意见**

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| 依托单位年度考核意见：  通过本年度考核，下一年度继续对本实验室进行支持。  依托单位负责人签字：  （单位公章）  年 月 日 |