|  |  |
| --- | --- |
| 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**

（ 2016年1月—— 2016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：李晶 021-64252758**

**E-mail地址：lijhy@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**

2017年 3 月 21 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**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 |
| **实验室**  **副主任** | 姓名 | 曲大辉 | | 研究方向 | | 有机功能材料与超分子化学 | | | | | |
| 出生日期 | 1980.02 | | 职称 | | 教授 | | 任职时间 | | | 2017.03 |
| **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 | | 264篇 | | EI | | | 篇 |
| 科技专著 | | 国内出版 | | 2部 | | 国外出版 | | | 6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 | | | 项 |
| 项目到账  总经费 | 4107.4万元 | | 纵向经费 | | 3945.4万元 | | 横向经费 | | | 162万元 |
| 发明专利与  成果转化 | 发明专利 | | 申请数 | | 项 | | 授权数 | | | 17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 | | | 50人 | | 实验室流动人员 | | | | 4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。《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》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 | | | | | | 院长 |
| 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 | | | | 3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 | 320学时 | | | | | 承担研究生课程 | | | | 256学时 |
| 大专院校教材 | 2部 | | | | |  | | | |  |
| **开放与**  **运行管理** | 承办学术会议 | 国际 | 1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。  2016年本重点实验室发表发表包括***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264篇，其中SCI影响因子大于5的文章123篇。2016年有16项中国发明专利授权，1项美国专利授权，发表中英文专著8本。 |

**发表论文**

| **序号** | **论文题目** | **作者** | **通讯**  **作者** | **期刊名** | **年，卷（期）：页** | **SCI-IF** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Discrimination of oligonucleotides of different lengths with a wild-type aerolysin nanopore | Chan Cao, Yi-Lun Ying, Zheng-Li Hu, Dong-Fang Liao, He Tian and Yi-Tao Long | 龙亿涛 | Nat. Nanotechnol. | 2016, 11, 713-718 | 35.267 |
| 2 | Graphene and its derivatives for laser protection | Yu Chen\*, Ting Bai, Ningning Dong, Fei Fan, Saifeng Zhang, Xiaodong Zhuang, Jie Sun, Bin Zhang, Xiaoyan Zhang, Jun Wang,Werner J. Blau | 陈彧 | Prog. Mater. Sci. | 2016, 84：118-157 | 31.080 |
| 3 | Targeted Intracellular Production of Reactive Oxygen Species by a 2D Molybdenum Disulfide Glycosheet | Ding-Kun Ji, Yue Zhang, Yi Zang, Jia Li,\* Guo-Rong Chen, Xiao-Peng He,\* He Tian | 贺晓鹏 | Adv. Mater. | 2016，28：9356-9363 | 18.960 |
| 4 | Tissue-Integratable and Biocompatible Photogelation by the Imine Crosslinking Reaction | Yang, Y.; Zhang, J.; Liu, Z.; Lin, Q.; Liu, X.; Bao, C.; Wang, Y.; Zhu, L., | 朱麟勇 | Adv. Mater. | 2016, 28 (14), 2724-30 | 18.960 |
| 5 | A Sacrificial Coating Strategy Toward Enhancement of Metal−Support Interaction for Ultrastable Au Nanocatalysts | Wangcheng Zhan, Qian He, Xiaofei Liu, Yanglong Guo, Yanqin Wang, Li Wang, Yun Guo, Albina Y. Borisevich, Jinshui Zhang, Guanzhong Lu, and Sheng Dai\* | 卢冠忠 | J. Am. Chem. Soc. | 2-16，138, 16130−16139 | 13.038 |
| 6 | Molecular engineering of potent sensitizers for very efficient light harvesting in thin-film solid-state dye-sensitized solar cells | Xiaoyu Zhang, Yaoyao Xu, Fabrizio Giordano, Marcel Schreier, Norman Pellet, Yue Hu, Chenyi Yi, Neil Robertson, Jianli Hua\*, Shaik M. Zakeeruddin\*, He Tian, and Michael Grätzel\* | 花建丽 | J. Am. Chem. Soc. | 2016, 138（34）: 10742−10745 | 13.038 |
| 7 | Multicolor Photoluminescence Including White-Light Emission by a Single Host-Guest Complex | Qi-Wei Zhang, Dengfeng Li, Xin Li, Paul White, Jasmin Mecinovic, Xiang Ma\*, Hans Ågren,  Roeland Nolte, He Tian\*. | 田禾，马骧 | J. Am. Chem. Soc. | 2016, 138(41),13541-13550 | 13.038 |
| 8 | Zn-Cu-In-Se Quantum Dot Solar Cells with a Certified Power Conversion Efficiency of 11.6%. | J. Du, Z. Du, J.-S. Hu,# Z. Pan, Q. Shen, J. Sun, D. Long, H. Dong, L. Sun, X. Zhong\*, L.-J. Wan | 钟新华 | J. Am. Chem. Soc. | 2016, 138, 4201−4209. | 13.038 |
| 9 | Real-Time Tracking and In Vivo Visualiziation of β-Galactosidase Activity in Colorectal Tumor with a Ratiometric NIR Fluorescent Probe | Kaizhi Gu, Yisheng Xu, Hui Li, Zhiqian Guo, Shaojia Zhu, Shiqin Zhu, Ping Shi, Tony D. James, He Tian, and Wei-Hong Zhu | 朱为宏 | J. Am. Chem. Soc. | 2016, 138, 5334−5340 | 13.038 |
| 10 | Enabling light work in helical self-assembly for dynamic amplification of chirality with photoreversibility | Yunsong Cai, Zhiqian Guo, Jianmei Chen, Wenlong Li, Liubiao Zhong, Ya Gao, Lin Jiang, Lifeng Chi, He Tian, and Wei-Hong Zhu | 朱为宏 | J. Am. Chem. Soc. | 2016, 138, 2219−2224 | 13.038 |
| 11 | Rapid Identification of the Receptor-Binding Specificity of Influenza AViruses by Fluorogenic Glycofoldamers | Xiao-Peng He,\* Ya-Li Zeng, Xin-Ying Tang, Na Li, Dong-Ming Zhou,\* Guo-Rong Chen, He Tian\* | 贺晓鹏 | Angew. Chem. Int. Ed | 2016，55(45)：13995-13999 | 11.709 |
| 12 | Dual-targeting nanovesicles for in situ intracellular imaging of and discrimination between wild-type and mutant p53 | Ruocan Qian, Yue Cao, Yi-Tao Long | 龙亿涛 | Angew. Chem. Int. Ed | 2016, 55, 719-723 | 11.709 |
| 13 | Macrocyclic Transformations from Norrole to Isonorrole and an N-Confused Corrole with a Fused Hexacyclic Ring Triggered by a Pyrrole Substituent | Miao Li, Pingchun Wei, Masatoshi Ishida, Xin Li, Mathew Savage, Rui Guo, Zhongping Ou, Sihai Yang, Hiroyuki Furuta,\* and Yongshu Xie\* | 解永树 | Angew. Chem. Int. Ed | 2016, 55(9), 3063-3067. | 11.709 |
| 14 | Metal-Free Cross-coupling of Arylboronic acid and Derivatives with DAST-type reagents for the Direct Access of Diverse Aromatic Sulfinamides and Sulfonamides | Qiang Wang, Xiang-Ying Tang,\* and Min Shi\* | 施敏 | Angew. Chem. Int. Ed | 2016, 55, 10811-10815 | 11.709 |
| 15 | Enantioselective rhodiumcatalyzed dearomative arylation or alkenylation of quinolinium salts | Yan Wang, Yunlong Liu, Dongdong Zhang, Hao Wei,\* Min Shi, Feijun Wang,\* | 王飞军 | Angew. Chem. Int. Ed | 2016, 55, 3776–3780 | 11.709 |
| 16 | Direct hydrodeoxygenation of raw woody biomass into liquid alkanes | Qineng Xia, Zongjia Chen, Yi Shao, Yanqin Wang | 王艳芹 | Nat. Commun. | 2016, 7, 11162 | 11.329 |
| 17 | Effects of Metal Oxyhydroxide Coatings on Photoanode in Quantum Dot Sensitized Solar Cells | Z. Ren,Z. Wang, R. Wang, Z. Pan\*, X. Gong\*, X. Zhong\* | 钟新华 | Chem. Mater. | 2016, 28, 2323−2330. | 9.407 |
| 18 | Effect of Ceria Crystal Plane on the Physicochemical and Catalytic Properties of Pd/Ceria for CO and Propane Oxidation | Zong Hu, Xiaofei Liu, Dongmei Meng, Yun Guo,\* Yanglong Guo, and Guanzhong Lu\* | 卢冠忠 | ACS Catalysis | 2016, 6, 2265−2279 | 9.307 |
| 19 | Highly efficient epoxidation of allylic alcohols with hydrogen peroxide catalyzed by peroxoniobate-based ionic liquids | Chen Chen，Haiyang Yuan，Haifeng Wang，Yefeng Yao，Wenbao Ma，Jizhong Chen，Zhenshan Hou | 侯震山 | ACS Catalysis | 2016, 6(5)：3354-3364 | 9.307 |
| 20 | Low-Temperature Methane Combustion over Pd/H-ZSM-5: Active Pd Sites with Specific Electronic Properties Modulated by Acidic Sites of H‑ZSM‑5 | Yang Lou, Jian Ma, Wende Hu, Qiguang Dai, Li Wang, Wangcheng Zhan, Yanglong Guo, Xiao-Ming Cao,\* Yun Guo,\* P. Hu, and Guanzhong Lu | 卢冠忠 | ACS Catalysis | 2016, 6, 8127−8139 | 9.307 |
| 21 | Iron or Copper Catalyzed Trifluoromethylation of Acrylamide-Tethered Alkylidenecyclopropanes: Facile Synthesis of CF3-Containing Polycyclic Benzazepine Derivatives | Liu-Zhu Yu, Qin Xu, Xiang-Yiang Tang, and Min Shi\* | 施敏 | ACS Catalysis | 2016, 6, 526-531 | 9.307 |
| 22 | Targeted multimodal theranostics via biorecognition controlled aggregation of metallic nanoparticle composites† | Xi-Le Hu, Yi Zang, Jia Li,\* Guo-Rong Chen, Tony D. James, Xiao-Peng He,\* and He Tian | 贺晓鹏 | Chem. Sci. | 2016，7(7)：4004-4008 | 9.144 |
| 23 | Foldable glycoprobes capable of fluorogenic crosslinking of biomacromolecules | Kai-Bin Li, Na Li, Yi Zang, Guo-Rong Chen, Jia Li,\* Tony D. James, Xiao-Peng He,\* He Tian | 贺晓鹏 | Chem. Sci. | 2016，7(10)：6325-6329 | 9.144 |
| 24 | Color-Coded Imaging of Electrochromic Process at Single Nanoparticle Level | Chao Jing,Zhen Gu,Tao Xie,Yi-Tao Long | 龙亿涛 | Chem. Sci. | 2016, 7, 5347-5351 | 9.144 |
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**发明专利：**

| **序号** | **知识产权名称** | **授权号** | **授权时间** | **获准国别** | **完成人** | **是否产业化** |
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| 9 | 一种从生物质制备糠醛类化合物的方法 | ZL201310204142.5 | 2016/5/11 | 中国 | 王艳芹，王健健等 | 否 |
| 10 | 一种由呋喃或四氢呋喃衍生物制备伯醇的绿色新方法 | ZL201310204164.6 | 2016/4/6 | 中国 | 王艳芹，夏启能等 | 否 |
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**专著**

| **序号** | **专著名称** | **作者** | **刊物、出版社名称** | **卷、期（或章节）、页** |
| --- | --- | --- | --- | --- |
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**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95项，科研经费总到款4107.4万元；其中973、863和国家重大科技专项项目（包括合作项目）9项，到款1759.9万元；国家自然科学基金项目49项，到款金额1850.98万余元，其他省部级项目21项，到款334.5万余元，企业横向项目16项，到款162万元。 |

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 | 肿瘤特异性血清标志物的分子诊断 | 2013CB733700 | 田禾 | 2013/1/1--2017/12/31 | 301 | 973计划 |
| 2 | 分子探针识别肿瘤特异性血清标志物的基础研究\* | 2013CB733700 | 朱为宏 | 2013/1/1--2016/12/31 | 70 | 973计划 |
| 3 | 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 | 2013CB933201 | 郭杨龙 | 2013/1/1--2017/3/31 | 109.3 | 973计划 |
| 4 | 离子液体介质强化反应过程节能的新原理\* | 2015CB251401 | 彭昌军 | 2015/1/1--2019/12/31 | 16 | 973计划 |
| 5 | 界面光电分析化学基础研究 | 21421004 | 龙亿涛 | 2015/01/01--2020/12/31 | 240 | 国基金-创新研究群体项目 |
| 6 | 光化学手段构建生物医药材料 | 21425311 | 朱麟勇 | 2015/10/1--2018/10/31 | 120 | 国家杰出青年科学基金 |
| 7 | 精细有机化工 | 21325625 | 朱为宏 | 2014/10/1--2017/10/31 | 80 | 国家杰出青年科学基金 |
| 8 | 多相反应过程中的表界面结构和相际传递现象研究 | 91334203 | 刘洪来 | 2014/1/1--2017/12/31 | 120 | 国基金-重大研究计划 |
| 9 | 木质生物质到烃类的定向转化及催化化学研究 | 91545103 | 王艳芹 | 2016/1/1--2018/12/31 | 105 | 国基金-重大研究计划 |
| 10 | 分子探针实时监测非可控炎癌转化过程的基础研究 | 91529101 | 吴君臣 | 2015/10/1--2017/10/1 | 72 | 国基金-重大研究计划 |
| 11 | 推-拉型电活性高分子信息存储材料和器件的关键基础问题研究 | 51333002 | 陈彧 | 2014/1/1--2018/12/31 | 90 | 国基金-重点项目 |
| 12 | 界面传递过程的非平衡热力学\* | 21136004 | 彭昌军 | 2012/1/1--2016/12/31 | 54 | 国基金-重点项目 |
| 13 | 基于位阻型烯桥的光致变色染料的设计极其产品工程科学基础 | 21636002 | 朱为宏 | 2017/1--2021/1 | 147 | 国基金-重点项目 |
| 14 | 光电功能分子设计及其表界面特性研究 | 21420102004 | 田禾 | 2015/1/1--2018/12/31 | 90 | 国际(地区)合作与交流项目 |
| 15 | 近红外荧光染料 | 21622602 | 郭志前 | 2017/1--2019/12 | 78 | 国家优秀青年科学基金项目 |
| 16 | 基于聚集诱导发光的有机双光子荧光传感器 | 21372082 | 花建丽 | 2014/1/1--2017/12/31 | 51 | 国家自然科学基金 |
| 17 | 响应性型Pickering乳化剂的界面行为及其在多相催化反应中的应用 | 91534103 | 韩霞 | 2016/1/1--2018/12/31 | 46.8 | 国家自然科学基金 |
| 18 | 具有多重限幅机制的纳米激光防护功能材料的设计和制备 | 61378072 | 陈彧 | 2014/1/1--2017/12/31 | 40 | 国家自然科学基金 |
| 19 | 后过渡金属卡宾中间体的分离、表征及相关催化机理研究 | 21671066 | 张军 | 2017/1/1--2020/12/31 | 37 | 国家自然科学基金 |
| 20 | 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 | 2016/1/1--2017/12/31 | 35.78 | 国家自然科学基金 |
| 21 | 化学和机械力驱动的分子机器聚合物 | 21672060 | 曲大辉 | 2017/1/1--2020/12/31 | 33 | 国家自然科学基金 |
| 22 | 二氧化钛材料的氧空位调制及光催化降解室内气相污染物应用 | 21677049 | 陈锋 | 2017/1/1--2020/12/31 | 33 | 国家自然科学基金 |
| 23 | 多肽配体导向的自组分子探针对蛋白酶激活受体识别的研究 | 21572057 | 吴君臣 | 2015/10/1--2018/10/31 | 32.5 | 国家自然科学基金 |
| 24 | 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 | 2016/1/1--2019/12/31 | 32.5 | 国家自然科学基金 |
| 25 | 基于亚砜识别功能团的新型硫化氢荧光探针 | 21672062 | 赵春常 | 2017/1/1--2020/12/31 | 32.5 | 国家自然科学基金 |
| 26 | 基于表面增强拉曼光谱的细胞内气体信号分子原位检测新技术 | 21575041 | 李大伟 | 2016/01/01--2019/12/31 | 30 | 国家自然科学基金 |
| 27 | 刺激-响应的功能性超分子聚合物及性能 | 21476075 | 马骧 | 2015/01/01--2018/12/31 | 27 | 国家自然科学基金 |
| 28 | 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 | 2015/10/1--2018/10/31 | 25.5 | 国家自然科学基金 |
| 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 | 2015/01/01--2018/12/31 | 25.2 | 国家自然科学基金 |
| 30 | 二维流体的分子热力学 | 21476070 | 彭昌军 | 2015/1/1--2018/12/31 | 24 | 国家自然科学基金 |
| 31 | 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 | 2014/1/1--2017/12/31 | 16.7 | 国家自然科学基金 |
| 32 | 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 | 2014/10/1--2017/10/31 | 16.4 | 国家自然科学基金 |
| 33 | PDMAEMA基共聚物的多重响应和多重相转变行为及其应用 | 21176065 | 韩霞 | 2015/1/1--2017/12/31 | 16 | 国家自然科学基金 |
| 34 | 具有N-芳基骨架轴手性配体的设计合成及其不对称催化应用研究 | 21372075 | 王飞军 | 2014/1/1--2017/12/31 | 16 | 国家自然科学基金 |
| 35 | 芳基磺酰胺类化合物的氟气氟化反应及其应用研究 | 21372077 | 杨先金 | 2014/1/1--2017/12/31 | 16 | 国家自然科学基金 |
| 36 | 具有大Stokes位移的氟硼吡咯、类氟硼吡咯衍生物及其功能 | 21372083 | 赵春常 | 2014/1/1/2017/12/31 | 16 | 国家自然科学基金 |
| 37 | 非易失性D-A型高分子信息存储功能材料的设计和制备 | 21404037 | 张斌 | 2015/1/1--2017/12/31 | 15 | 国家自然科学基金 |
| 38 | 结直肠癌多种microRNA的单分子检测研究 | 21505043 | 应佚伦 | 2016/01/01--2018/21/31 | 12.6 | 国家自然科学基金 |
| 39 | 基于聚集诱导发光特性的肿瘤探针的合成及构效关系研究 | 21604023 | 梅菊 | 2017/1/1--2019/12/31 | 12 | 国家自然科学基金 |
| 40 | 基于含氟稀土Lewis酸催化的氟代芳基碘盐亲电芳基化反应方法学研究及其应用 | 21272069 | 王利民 | 2012/2016 | 10 | 国家自然科学基金 |
| 41 | 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 | 2015/10/1--2017/10/31 | 2.5 | 国家自然科学基金 |
| 42 | 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 | 2013/1/1--2016/12/31 | 0 | 国家自然科学基金 |
| 43 | 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 | 2013/1/1——2016/12/31 | 0 | 国家自然科学基金 |
| 44 | 用于单分子间弱相互作用研究的光电分析系统 | 21327807 | 龙亿涛 | 2014/01/01--2018/12/31 | 0 | 国家自然科学基金 |
| 45 | 金属-分子梭框架材料 | 21372076 | 王巧纯 | 2014/1/1--2017/12/31 | 0 | 国家自然科学基金 |
| 46 | 新型探测禽流感病毒的糖荧光探针构建 | 21572058 | 贺晓鹏 | 2016/1/1--2019/12/31 | 0 | 国家自然科学基金 |
| 47 | 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 | 2016/6/1--2019/12/31 | 0 | 国家自然科学基金 |
| 48 | 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 | 2016/1/1--2019/12/31 | 0 | 国家自然科学基金 |
| 49 | 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 | 2016/1/1--2019/12/31 | 0 | 国家自然科学基金 |
| 50 | 层层解装：等离子体纳米探针用于从细胞表面到细胞质内肿瘤相关生物分子的逐层解析 | 21605048 | 钱若灿 | 2017/01/01--2019/12/31 | 0 | 国家自然科学基金 |
| 51 | 基于“光富集-气富集”策略的CH4-CO2转化研究 | 21673073 | 王灵芝 | 2017/01--2020/12 | 0 | 国家自然科学基金 |
| 52 | 光生电荷定向迁移型光催化剂对重金属-难降解有机物复合污染的协同降解研究 | 21677048 | 张金龙 | 2017/1--2020/12 | 0 | 国家自然科学基金 |
| 53 | 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 | 2013/1/1--2016/12/31 | 0 | 国家自然科学基金 |
| 54 | 丙烷等低碳烃净化催化剂的研究与应用 | 2016YFC0204302 | 卢冠忠 | 2016/7/1--2020/12/31 | 480.9 | 国家科技重大专项 |
| 55 | 芳香纳米材料制备与应用研究\* | 2016YFA0200302 | 朱为宏 | 2016/7--2021/6 | 480 | 国家科技重大专项 |
| 56 | 含氯等杂原子VOCs 净化催化剂的研究与应用\* | 2016YFC0204303 | 郭杨龙 | 2016/7/1--2020/12/31 | 210.7 | 国家科技重大专项 |
| 57 | 电荷空间分离技术同步光催化降解重金属-有机污染物废水的研究 | 2016YFA0204200 | 邢明阳 | 2016/07--2021/06 | 92 | 国家科技重大专项 |
| 58 | 化工行业典型VOCs 催化净化技术的研究及应用示范 | 2016YFC0204300 | 卢冠忠 | 2016/7/1--2020/12/31 | 0 | 国家科技重大专项 |
| 59 | 有机功能分子机器 | WJ1616011 | 曲大辉 | 2016/10/1--2017/10/31 | 40 | 教育部基本科研业务费 |
| 60 | 新型非易失性高分子阻变存储材料的设计和器件性能 | WJ1514311 | 张斌 | 2015/11/1--2017/11/30 | 10 | 教育部基本科研业务费 |
| 61 | 糖荧光探针在癌细胞识别中的“石墨烯尺寸效应” | WJ1414010 | 贺晓鹏 | 2014/7/1--2016/6/30 | 0 | 教育部基本科研业务费 |
| 62 | 等离子体纳米探针用于细胞聚糖和p53蛋白逐层成像 | 2016T90339 | 钱若灿 | 2016/01/01--2017/12/31 | 15 | 教育部项目 |
| 63 | 基于生物纳米通道的环二核苷酸单分子分析研究 | 2016T90340 | 应佚伦 | 2016/06/01--2017/06/31 | 15 | 教育部项目 |
| 64 | 基于三苯胺的高分子阻变材料的制备与性能研究 | 15CG28 | 张斌 | 2016/1/1--2017/12/31 | 6 | 上海市晨光 |
| 65 | 东方学者跟踪项目 | GZ2016006 | 解永树 | 2016/05/01--2019/04/30 | 40 | 上海市东方学者 |
| 66 | 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 | 2013/9/1--2016/8/31 | 8 | 上海市科委 |
| 67 | 肿瘤特异性血清标志物的分子诊断P | K1002P13086 | 田禾 | 2013/1/1--2014/12/31 | 20.5 | 上海市配套 |
| 68 | 新型高分子忆阻材料的设计、制备和神经突触仿生研究 | 16PJ14022400 | 张斌 | 2016/7/1--2018/6/30 | 20 | 上海市浦江人才 |
| 69 | 糖分子探针的化学生物学研究 | 16QA1401400 | 贺晓鹏 | 2016/1/1--2018/12/31 | 40 | 上海市启明星项目 |
| 70 | 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 | 2013/9/1--2016/8/31 | 0 | 上海市项目 |
| 71 | 界面光电分析新方法与新技术 | 15XD1501200 | 龙亿涛 | 2015/01/01--2017/12/21 | 0 | 上海市项目 |
| 72 | 用于癌症早期诊断的荧光生物探针的研究与开发 | 16YF1402200 | 梅菊 | 2016/6/1--2019/5/31 | 20 | 上海市扬帆计划 |
| 73 | 高活性和高稳定性的分子筛型NH3选择性还原NOx催化剂的研究 | 16ZR1407900 | 詹望成 | 2016/7/1——2019/6/30 | 20 | 上海市自然科学基金 |
| 74 | 硫杂环荧光团分子体系的构建及其高效化学传感特性研究 | 16ZR1408000 | 王成云 | 2016/6/30--2019/6/1 | 20 | 上海市自然科学基金 |
| 75 | 校杰出青年人才培育基金 |  | 解永树 | 2016/06/01--2016/12/31 | 40 | 省部级 |
| 76 | 基于官能化有机硼酸作为双亲核前体在过渡金属催化下的不对称串联成环反应研究 | 16PJD017 | 王飞军 | 2016/9/1--2018/8/31 | 20 | 省部级 |
| 77 | 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 | 2015/10/1--2018/9/30 | 0 | 省部级 |
| 78 | 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 | 2014/1/1--2017/12/31 | 0 | 省部级 |
| 79 | 定向传输光生电荷型纳米光催化剂的设计、制备和表征 | 16JC1401400 | 张金龙 | 2016/7--2019/6 | 0 | 省部级 |
| 80 | 聚氨酯成分检测分析 |  | 解永树 | 2016/10/01--2017/03/30 | 3 | 其他 |
| 81 | 三乙基铝做助催化剂的高效乙烯三聚、四聚反应研究 | 20141219110234800 | 张军 | 2014/1/1--2016/12/31 | 18 | 其他 |
| 82 | 有机颜料的商品化处理 | J200-81207 | 王利民 | 2012/1/1--2017/12/31 | 10 | 其他 |
| 83 | 造纸副产品的深加工 | J200-81605 | 王利民 | 2016/2017 | 7 | 其他 |
| 84 | 激光染料与染料降解催化剂的研制 | J200-JG1613 | 张金龙 | 2016/11--2017/10 | 0 | 其他 |
| 85 | 近红外菁类荧光化学传感器研究 | KF1509 | 郭志前 | 2015/12-- 2018/03/ | 2.5 | 其他 |
| 86 | 氟化石墨作为氟化试剂研究 | 无 | 杨先金 | 2014/12/1--2016/11/30 | 0.7 | 其它 |
| 87 | N-氟-α-苯乙胺的重排反应研究 | 无 | 杨先金 | 2016/12/31--2017/11/ 30 | 0.8 | 其它 |
| 88 | 精细化工新产品联合开发 | 无 | 杨先金 | 2016/9/8--2019/9/7 | 10 | 其它 |
| 89 | 糖平台出发经催化转化制生物航煤的基础研究 | ST15013 | 王艳芹 | 2015/1/1--2017/12/31 | 30 | 中石化总公司 |
| 90 | 生物质制备呋喃二甲酸和异山梨醇的研究 | ST14010 | 王艳芹 | 2014/1/1--2016/12/31 | 20 | 中石化总公司 |
| 91 | 涂层变色添加剂有机硅表面活性剂及助剂的研究 | 无 | 田禾 | 2016/9/28--2018/9/30 | 0 | 企业横向 |
| 92 | 涂层变色固化性组分用有机硅交联剂的制备研究 | 无 | 田禾 | 2016/9/28--2017/9/30 | 30 | 企业横向 |
| 93 | 优质冰片清洁高效生产技术研发及产业化项目 | 无 | 田禾 | 2015/2/12--2018/3/30 | 0 | 企业横向 |
| 94 | 高性能颜料、功能色素及专用助剂的研发 | 无 | 田禾 | 2012/1/1--2020/12/31 | 30 | 企业横向 |
| 95 | 新型萘并砒喃光致变色化合物的制备研究 | 无 | 田禾 | 2016/9/28--2019/9/30 | 0 | 企业横向 |

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** |
| 有机光电功能材料 | 田禾 | 朱为宏，陈彧，花建丽，解永树 |
| 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 |
| 催化功能材料的设计与制备 | 卢冠忠 | 郭杨龙，郭耘，陈锋 |
| 微生物采油调控技术及应用 | 牟伯中 | 王幸宜 |
| 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 |

**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 | 贺晓鹏 | 研究人员 | 男 | 博士 | 副研究员 | 32 | 2011年至今 |
| 44 | 田宝柱 | 研究人员 | 男 | 博士 | 副研究员 | 47 | 2008年至今 |
| 45 | 邢明阳 | 研究人员 | 男 | 博士 | 副教授 | 31 | 2014年至今 |
| 46 | 李晶 | 管理人员 | 女 | 博士 | 高级工程师 | 37 | 2003年至今 |
| 47 | 刘晓晖 | 管理人员 | 女 | 博士 | 副研究员 | 41 | 2003年至今 |
| 48 | 赵平 | 管理人员 | 女 | 博士 | 讲师 | 42 | 2006年至今 |
| 49 | 张隽佶 | 研究人员 | 男 | 博士 | 讲师 | 31 | 2014年至今 |
| 50 | 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 | 应佚伦 | 博士后 | 女 | 29 | 特聘副研究员 | 中国 | 华东理工大学 | 2014.07/2016.06 |
| 2 | 钱若灿 | 博士后 | 女 | 29 | 特聘副研究员 | 中国 | 华东理工大学 | 2014.10/2016.10 |
| 3 | 华鑫 | 博士后 | 女 | 28 | 博士后 | 中国 | 华东理工大学 | 2015.09/2017.08 |
| 4 | 静超 | 博士后 | 女 | 28 | 博士后 | 中国 | 华东理工大学 | 2015.05/2017.04 |

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**

|  |
| --- |
| 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。  本年度实验室的朱为宏教授入选第二批国家“万人计划”科技创新领军人才，获得了“上海市自然科学牡丹奖”。2016年10月进入华东理工大学精细化工研究所工作的吴永真入选上海市“东方学者”特聘教授。郭志前获批“国家优秀青年科学基金项目”。应佚伦特聘副研究员获得欧莱雅-联合国教科文组织“世界最具潜力女科学家奖”。贺晓鹏副研究员获得上海市青年科技启明星。梅菊博士入选“上海市青年科技英才扬帆计划”。 |

**（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。  本实验室龙亿涛教授指导的研究生曹婵在生物纳米孔道单分子检测方面的研究工作取得了喜人的成绩，以第一作者发表在Nature. Nanotechnology 上发表论文（Chan Cao, Yi-Lun Ying, Zheng-Li Hu, Dong-Fang Liao, He Tian and Yi-Tao Long. Discrimination of oligonucleotides of different lengths with a wild-type aerolysin nanopore. Nature. Nanotechnology, 2016, 11, 713-718.）；在2016年举办的Genomics Frontiers Symposium和The 251st ACS National Meeting & Exposition国际会议上做口头报告，并获2016美国化学会上海分会研究生学术成就一等奖。  其他高水平论文发表：  朱为宏教授指导的研究生蔡云松，顾开智，吴玥分别在J. Am. Chem. Soc.，Materials Horizons国际著名期刊上发表高水平论文。花建丽教授指导的研究生张晓瑜和马骧教授协助指导的研究生张琪玮均在J. Am. Chem. Soc.上发表高水平论文   1. Yunsong Cai, Zhiqian Guo, Jianmei Chen, Wenlong Li, Liubiao Zhong, Ya Gao, Lin Jiang, Lifeng Chi, He Tian, and Wei-Hong Zhu\*, “Enabling light work in helical self-assembly for dynamic amplification of chirality with photoreversibility”, *J. Am. Chem. Soc.*, 2016, 138, 2219-2224. 2. Kaizhi Gu, Yisheng Xu, Hui Li, Zhiqian Guo, Shaojia Zhu, Shiqin Zhu, Ping Shi, Tony D. James, He Tian, and Wei-Hong Zhu\*, “Real-Time Tracking and In Vivo Visualiziation of β-Galactosidase Activity in Colorectal Tumor with a Ratiometric NIR Fluorescent Probe”, *J. Am. Chem. Soc.*, 2016, 138, 5334-5340. 3. Yue Wu, Zhiqian Guo, Wei-Hong Zhu\*, Wei Wan, Junji Zhang, Wenlong Li, Xin Li, He Tian and Alexander D. Q. Li, “Photoswitching between black and colourless spectra exhibits resettable spatiotemporal logic”, *Materials Horizons*, 2016, 3, 124-129. 4. Qi-Wei Zhang, Dengfeng Li, Xin Li, Paul White, Jasmin Mecinovic, **Xiang Ma\***, Hans Ågren,  Roeland Nolte, He Tian\*. “Multicolor Photoluminescence Including White-Light Emission by a Single Host-Guest Complex”, J. Am. Chem. Soc., **2016**, 138(41), 13541-13550. 5. Xiaoyu Zhang, Yaoyao Xu, Fabrizio Giordano, Marcel Schreier, Norman Pellet, Yue Hu, Chenyi Yi, Neil Robertson, Jianli Hua\*, Shaik M. Zakeeruddin\*, He Tian, and Michael Grätzel\*, “Molecular engineering of potent sensitizers for very efficient light harvesting in thin-film solid-state dye-sensitized solar cells”, *J. Am, Chem. Soc.,* 2016, 138（34）: 10742−10745. |

**（3）研究生参加国际会议情况（列举5项以内）**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 | 口头报告 | 曹婵 | 博士 | Genomics Frontiers Symposium | 龙亿涛 |
|  | 口头报告 | 曹婵 | 博士 | The 251st ACS National Meeting & Exposition | 龙亿涛 |
| 2 | 其他 | 王俊刚 | 博士 | 4th International Conference on Frontiers of Plasmonics | 龙亿涛 |
| 3 | 其他 | 顾震 | 博士 | The 251st ACS National Meeting & Exposition | 龙亿涛 |
| 4 | 其他 | 马慧 | 博士 | Faraday Discussion: Single Entity Electrochemistry | 龙亿涛 |
| 5 | 其他 | 蔡云松 | 博士 | 第三十届中国化学会学术年会，大连理工大学 | 朱为宏 |
| 6 | 其他 | 蔡云松 | 博士 | 第八届国际光致变色会议，华东理工大学 | 朱为宏 |
| 7 | 其他 | 顾开智 | 博士 | 第三十届中国化学会学术年会，大连理工大学 | 朱为宏 |

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**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 | 第八届光致变色国际会议 | 华东理工大学 | 田禾 | 2016.11．4-7 | 250 | 全球性 |

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**   | **序号** | **大会报告名称** | **报告人** | **会议名称** | **时间** | **地点** | **类型** | | --- | --- | --- | --- | --- | --- | --- | | 1 | 糖分子探针的构建与人类重大疾病诊断 | 贺晓鹏 | 中国化学会第30届年会 | 2016/7/2 | 大连理工大学，中国 | 区域性 | | 2 | Small-Molecular Glycoprobes and Supramolecular Material Glycocomposites for Disease Diagnosis and Theranostics | 贺晓鹏 | 5th Molecular Sensors and Molecular Logic Gates Symposium (MSMLG 2016) | 2016/7/25 | 巴斯大学，英国 | 全球性 | | 3 | Fluorogenic glycoprobes and 2D material composites that can be selectively “Switched-On” by receptor proteins | 贺晓鹏 | International Symposium on Photochromism 2016 (ISOP2016) | 2016/11/6 | 华东理工大学，中国 | 全球性 | | 4 | Catalytic transformation of glycerol to 1-propanol， | 侯震山 | Pre 16th ICC International Symposium on Catalytic Conversion of Energy and resources | 2016/6/30--2016-7-2 | 韩国，首尔 | 全球性 | | 5 | Single molecule analysis by biological nanopores | 龙亿涛 | The 251st ACS National Meeting & Exposition | 2016/3/13--2016-3/17 | San Diego, California, USA | 全球性 | | 6 | Electrochemical Sensing Single Nucleotide with Nanopore | 龙亿涛 | The 7th International Symposium on Bioanalysis, Biomedical Engineering, and Nanotechnology | 2016/5/26--2016-5/30 | 中国，长沙 | 全球性 | | 7 | Single Nucleotide Analysis Approach: Aerolysin and Scattering Nanopore | 龙亿涛 | The 2016 International Symposium on Analytical Chemistry Frontiers & China-US Analytical Chemistry Workshop | 2016/6/3-2016/6/6 | 中国，厦门 | 双边性 | | 8 | Single Oligonucleotide Discrimination with Aerolysin Nanopore | 龙亿涛 | 2016 Genomics Frontiers Symposium | 2016/7/27-2016/7/30 | 中国，沈阳 | 全球性 | | 9 | Single oligonucleotide discrimination with aerolysin nanopore | 曹婵 | The 251st ACS National Meeting & Exposition | 2016/3/13-2016/3/17 | San Diego, California, USA | 全球性 | | 10 | Imaging electrocatalytic processes on single gold nanorods | 静超 | Faraday discussion:Single Entity Electrochemistry | 2016/8/31-2016/9/2 | York，UK | 全球性 | | 11 | ToF-SIMS and Microfluidic Technique-based in situ Analysis of Biointerphase | 华鑫 | SIMS Europe 2016 | 2016/9/18-2016/9/20 | Munster, Germany | 全球性 | | 12 | Stimuli-Responsive Organic Functional Supramolecular Polymers in Aqueous Solution | 马骧 | The 8th Sino-US Joint Conference of Chemical Engineering (SUChE 2016) | 2016/10/12--2016/10/16 | Shanghai | 双边性 | | 13 | Facile detection of thiols based on di(ethylidenemalononitrile)-functionalized siloles | 梅菊 | Aggregation Induced Emission: Faraday Discussion | 2016/11/18-2016/11/20 | 中国广州 | 全球性 | | 14 | Direct Hydrodeoxygenatin of Raw Woody Biomass into Liquid Alkanes | 王艳芹 | International Symposium on Catalytic Conversions of Biomass | 2016/6/27--2016/7/1 | 台北 | 全球性 | | 15 | Direct hydrodeoxygenation of lignin into aromatic hydrocarbons over Ru/Nb2O5 catalyst | 王艳芹 | International Symposium on Catalytic Activation and Selective Conversion of Energy-Related Molecules | 2016/7/10--2016/7/12 | 厦门 | 全球性 | | 16 | Peptide Self-assembly Probes: an Emerging Paradigm for the Diagnosis and Therapy of Cancer | 吴君臣 | CPS2016中国国际多肽会议 | 2016/7/4 | 南京 | 区域性 | | 17 | Design and Synthesis of Silica-Based Organic–Inorganic Hybrid Nanomaterials for the Applications in Biology and Biomedicine | 张金龙 | 5th International Symposium on Biomedical Materials: Clinical Requirements and Regulatory Affairs（ISBN2016） | 2016/12/13--2016/12/16 | Lahore, Pakistan | 全球性 | | 18 | Design and Synthesis of Silica-Based Organic–Inorganic Hybrid Nanomaterials for the Applications in Biology and Biomedicine | 张金龙 | 福州纳米会议 | 2016/12/7--2016/12/10 | Fuzhou, China | 区域性 | | 19 | Masazazu Anpo; Economic Hydrophobicity Triggering of CO2 Photoreduction for Selective CH4 Generation on Noble-Metal-Free TiO2-SiO2 Composite | 张金龙 | The 16th International Congress on Catalysis | 2016/7/3--2016/7/7 | Beijing, China | 全球性 | | 20 | Development of TiO2 photocatalyst | 张金龙 | 5th OPU-KIST-ECUST-TKU Joint Symposium on Advanced Materials and Their Applications | 2016/9/25--2016/9/29 | Seoul, Korea |  | | 21 | Surface-enhanced Raman Scattering (SERS) Achieved by TiO2 Photocatalysts | 王灵芝，邢明阳，张金龙 | International Symposium on Nanostructured Photocatalysts and Catalysts (NPC2016) | 2016/4/9--2016/4/11 | Osaka, Japan | 全球性 | | 22 | SANDWICHED GRAPHENE MODIFIED MESOPOROUS TITANIA SINGLE CRYSTALS WITH UNIQUE AND EXCELLENT PHOTOOXIDATION SURFACE | 邢明阳，张金龙 | The XXVIth IUPAC Symposium on Photochemistry | 2016/4/4--2016/4/7 | Osaka, Japan | 全球性 | | 23 | Light-regulation of Spiropyran: RNA interactions in Single Molecular Level | 张隽佶 | 2016第8届国际光致变色会议 | 2017/11/6 | 上海 | 全球性 | | 24 | Unprecedentedly targeted customization of molecular energy levels with auxiliary-group in organic solar cell sensitizers | 朱为宏 | 第二届有机光电材料与器件国际会议 | 2016/11/11--2016/11/13 | 宁波 | 全球性 | | 25 | Light-Triggered Reversible Supramolecular System with Photochromic Unit | 朱为宏 | International Symposium on Photochromism 2016 (ISOP2016) | 2016/11/4--2016/11/7 | 上海 | 全球性 | | 26 | Benzobis(thiadiazole)-Based Diarylethenes: Sterical Hinderance Offering Full Separation of Conformers with Chiral Resolution | 朱为宏 | 12th Japan-Chuna Joint Symposium on Conduction and Photoconduction in Organic Solids and Related Phenomena | 2016/10/16--2016/10/18 | Wasede University, Tokyo, Japan | 双边 | | 27 | NIR Fluorescent Organic Nanoprobe | 朱为宏 | 5th International Conference on Molecular Sensors and Molecular Logic Gates (MSMLG 2016) | 2016/7/24--2016/7/28 | University of Bath, UK | 全球性 | | 28 | Insight into D-A-π-A Featured Organic Sensitizers | 朱为宏 | 29th Meeting of the Electrochemical Society | 2016/5/29--2016/6/3 | San Diego, CA, USA | 全球性 | | 29 | Dicyanomethylene-4H-pyran (DCM) Fluorescent Derivatives for Optical Chemosensors | 郭志前 | International Symposium on Photochromism 2016 (ISOP2016) | 2016/11/4--2016/11/7 | 上海 | 全球性 | | 30 | Dual-channel Near-infrared Theranostic Prodrug for in vivo Tracking Thiol-triggered Chemotherapy | 郭志前 | 5th International Conference on Molecular Sensors and Molecular Logic Gates (MSMLG 2016) | 2016/7/24--2016/7/28 | University of Bath, UK | 全球性 | | 31 | Yolk-Shell Nanorattles Encapsulating A Movable Au Nanocore in Eletroactive Polyaniline Shells for Flexible Memory Device | 陈彧 | 8th International Symposium on Nano &Supramolecular Chemistry (8th ISNSC) | 2016/7/13--2016/7/16 | 澳大利亚昆士兰州布里斯班市 | 全球性 |   **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**  2016年9月26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95项，科研经费总到款4107.4万元；其中973、863和国家重大科技专项项目（包括合作项目）9项，到款1759.9万元；国家自然科学基金项目49项，到款金额1850.98万余元，其他省部级项目21项，到款334.5万余元，企业横向项目16项，到款162万元。  2016年本重点实验室发表发表包括*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264篇，其中SCI影响因子大于5的文章123篇。2016年有17国发明专利授权，1项美国专利授权,发表中英文专著8本。  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4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5名博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：本重点实验室承办了第八届光致变色国际会议，共有250余位国内外学者参加了这次会议，围绕“光致变色分子体系”“超分子光致变色”“新型光致变色功能和应用”的主题进行了研讨。不仅促进了我国光电功能材料化学与化工相关领域的发展，提高该领域我国在世界的影响和地位，还通过与世界各地科学家的近距离交流与成果分享，加强我国在有机光致变色功能分子及其相关功能材料的设计相关领域研究队伍的建设，推动该领域青年人才的成长。  （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 |