

批准立项年份	2012
通过验收年份	

国家级实验教学示范中心年度报告

(2017 年 1 月——2017 年 12 月)

实验教学中心名称: 能源与动力工程专业国家级实验教学示范中心 (西安交通大学)

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2018 年 1 月 30 日填报

第一部分 年度报告

一、人才培养工作和成效

（一）人才培养基本情况

能源与动力工程专业实验教学中心是 2012 年获教育部批准的国家级实验教学示范中心。中心依托的建设单位—能源与动力工程学院是西安交通大学创建最早、学科设置最齐全、师资力量最雄厚、实验设备最先进的学院之一。学院设有能源与动力工程、新能源科学与工程、核工程与核技术、环境工程 4 个本科专业，目前在读本科生 1688 人，硕士研究生 1071 人，博士研究生 807 人，非全日制工程硕士生 216 人，留学生 74 人。

目前，中心除承担能动、机械、化工、人居、材料、航空航天、食品等学院 10 余个专业，共计 39 门课程的实验教学任务外，还承担学院本科生项目设计、毕业设计、双创项目、课外科技竞赛等创新性实验项目的指导教学。2017 年度，中心在实践教学体系构建、实践教学运行和实践教学条件建设等方面都取得了长足的发展。

1. 注重能力培养，构建“全覆盖、两依托、三层次”的实践教学体系

以学校大类招生的推行以及本科生新版培养方案的修订为契机，以国家实施创新发展战略为导向，在学校以“夯实基础，重视实践，突出创新，注重个性”为目标的人才培养指导思想下，中心配合学院对 4 个本科专业的知识体系、课程体系和培养环节进行梳理、整合和优化，注意在夯实基础的同时，构建和完善“全覆盖（覆盖本科教育全过程）、两依托（依托科学研究、依托行业企业）、三层次（基础实践、专业实践、研究创新）”的实践教学体系。特别是在实践教学环节的设置上，通过课内实验、开放实验、金工实习、生产实习、课程设计、毕业设计、项目设计、双创项目、课外科技竞赛等不同层次的实践教学环节，营造浓厚的工程实践和研究探索氛围，将对学生实践能力和创新创业意识的培养始终贯穿于人才培养的全过程。

2. 重视课程建设，积极开发新的实验项目

配合 2015 版培养方案的实施，完成了院开 39 门课程实验教学大纲的编写修

订，出版实验教材 1 本。完成了 2015 版培养方案新开课程《环境工程原理实验》、《热物性测量技术》实验项目设计，新增实验项目 10 个，并完成实验指导书的编写。《热与流体课程实验》新增实验项目 4 个，并完成相关实验指导书的编写工作。

3. 强化过程管理，高质量完成年度实践教学任务

(1) 本年度春季学期，中心面向院内外本科生开设独立实验课程 2 门、含实验课程 19 门，涉及实验项目 76 项。本年度秋季学期，中心面向院内外本科生开设独立实验课程 6 门，含实验课程 10 门，涉及实验项目 71 项。本年度的全部实验皆能按计划开出，参加实验的学生来自 5 个学院 12 个专业，实验人时数总计 48404。

(2) 中心充分发挥学院学科、基地、科研优势，鼓励和支持学生积极参加课外科技活动，培养学生的实践能力和创新能力。本年度中心教师面向学生开设开放性实验项目 170 项，选课学生达 357 人次，开放性实验主要是结合指导教师的在研项目，利用科研平台，给学生提供尽早进实验室、参加科研活动的机会。2017 年学院学生共承担国家级大学生创新训练项目 25 项、省级大学生创新训练项目 16 项、校级 24 项。按照学校统一安排，学院已于 2017 年 11 月对以上项目进行中期考核。要求各项目组以答辩的方式汇报项目进展情况、后续规划及存在的问题，以促进项目按期完成。

(3) 通过与企业共建实践教学中心和实践基地，为学生搭建广阔的实景化实践教学平台，为学生了解行业最新技术发展动态、开阔职业视野创造条件。本年度夏季小学期，2015 级 438 位同学参加了认知实习，在学院统一组织下参观了渭河热电厂、陕西鼓风机责任有限公司等企业。2014 级 399 位同学分为 12 个实习分队分赴全国各地的校外实践基地进行生产实习，2 个实习队被评为校级先进实习队。

(4) 2014 级 399 位同学分为 82 个项目组，历时一年利用课外时间完成了项目设计，2013 级 447 位同学完成了毕业设计。5 个学生的毕业设计论文被评为校级优秀毕业设计论文。项目设计和毕业设计的题目以指导教师承担的国家级、省部级科研项目和企业技术开发项目为主，学生在“真刀实枪”参与科学研究和技术开发过程中，通过潜移默化、耳濡目染的熏陶，领略教师的思维方式、治学

态度，激发探索兴趣，培养创新能力。

4. 狠抓实验室建设，实践教学条件持续改善

本年度完成的实验室建设项目有：

（1）完成了服务于《热能与动力测试技术》课程的的压力表校验及压力传感器标定实验台的改造。

（2）完成了服务于 2015 版培养方案新开课程《热物性测量技术》的实验基础平台建设，自主研制了饱和蒸气压测量实验台、下落法比热容测量实验台、液体饱和密度测量实验台等。

（3）完成了服务于 2015 版培养方案新开课程《环境工程原理实验》的实验平台建设，自主开发恒压过滤实验装置一套。

（4）完成了透平叶片与叶轮振动专业实验室建设，建成轮盘振动实验台、叶片及叶片组固有频率锤击法测量试验台，可分别进行单叶片、叶片组和轮盘的固有频率的测定实验和叶轮机械轮盘的振动特性实验。

（5）利用示范中心专项建设经费，继续推进能源化工综合实验平台建设。

（二）人才培养成效评价

1. 创新教育成效显著，课外科技竞赛频频获奖

中心的创新教育取得了丰硕成果，培养的学生基本理论扎实、创新实践能力强，无论是参加课内实践环节、还是课外科技活动，都表现突出，成绩斐然：2017 年度，学院学生共获批国家级大学生创新训练项目 25 项、省级大学生创新训练项目 16 项、校级创新训练项目 24 项。132 名本科生在 2017 年“第十届全国大学生节能减排社会实践与科技竞赛”、“美国大学生数学建模竞赛”、“RoboMasters 全国大学生机器人大赛”、“第十六届全国大学生机器人大赛（Robocon）”“SAE 国际大学生航空设计竞赛”、“第十一届周培源力学竞赛”等全国性课外科技竞赛中获奖，其中 1 人获国际奖，67 人获国家级奖，64 人获省部级奖。中心 3 位本科生获校年度优秀标兵称号。中心学生在国内外刊物上发表 SCI 论文 16 篇，获批专利 4 项。

2. 综合素质广受赞誉，毕业生就业层次高

中心培养的学生基础理论扎实、综合素质高，毕业生深受国内外知名高校、研究单位、行业骨干企业青睐，在能源、动力、石油、化工等行业的各条战线上发挥着骨干和领军人物的作用。2017 年度，学院 412 名本科毕业生中，升学读研 257 人，占 59.08%；出国出境深造 43 人，占 9.89%；就业 92 人，占 21.15%；灵活就业 21 人，占 4.83%。

二、教学改革与科学研究

（一）教学改革立项、进展、完成等情况。

中心重视教学改革，围绕服务国家创新驱动发展战略、学校双一流建设的宏伟目标，聚焦于“培养什么样的人？如何培养？”这一办学的根本问题，积极开展教学研究和改革。转变教育教学理念，在教育教学中，从以传授知识为主转向以培养学生综合能力为主，从强调掌握知识的系统性转向强调解决实际问题的能力，着力培养学生独立的批判性思维和创造性思维能力。坚持通识教育和专业教育的相互渗透与有机衔接，实现学生知识、能力与素质协调发展的目的。强化实践教学，通过科教融合、校企合作，为学生创新创业能力的培养搭建宽广的平台。以实现培养目标为导向，重构课程体系，强化课程内涵建设。改进教学方式方法，建立以学生为中心、以教师为主导的教学模式。

1. 2017 年度，中心教师共承担省部级以上教改项目 19 项。

2. 能源与动力工程学院获批 2017 年陕西省高等学校创新创业教育改革试点学院（系）建设单位，学院四个专业皆入选陕西省“一流专业”。

3. 李娜老师在陕西省教育厅组织的“陕西省第二届高校教师微课教学比赛”中荣获二等奖。

4. 在中国高等教育学会组织的 2017 年度高校教学改革优秀案例征集评选活动中，刘迎文教授申报的“教辅软件与《热流课程》的结合与互补”入选。

5. 单建强教授负责的“压水堆核电厂事故仿真模拟”被认定为 2017 年度陕西省示范性虚拟仿真实验教学项目。

6. 丰镇平等、何茂刚等获西安交通大学第十五届教学成果特等奖。苏光辉等、

吴宏春等获西安交通大学第十五届教学成果一等奖。

7. 年初启动了《传热学》等 5 门 MOOC 课程建设, 2 位教师、5 门课程、3 本教材分别入选 2017 年西安交通大学名师、名课、名教材项目。

8. 作为教育部能源动力类教指委主任单位和中国机械工业教育协会能源与动力工程学科教学委员会主任单位, 组织启动了“高等学校能源动力类新工科研究与实践项目”申报工作, 组织召开了“2017 中国机械工业教育协会能动学科教学研讨会”。

(二) 科学研究等情况。

1. 2017 年度, 中心教师申报国家自然科学基金 116 项, 获批 51 项, 获批率 44%, 其中, 面上 33 项, 青年 12 项, 优青 1 项, 重点 1 项, 国际合作 1 项, 海外及港澳学者 1 项, 仪器研制 1 项, 创新研究群体 1 项。创历史新高。

2. 2017 年度, 中心教师新增各类纵向、横向科研课题 414 项。主持国家重点研发计划 3 项, 主持课题课题、子课题共 24 项。年度科研到款共 25373.73 万元, 人均到款约 100 万元。创历史新高

3. 2017 年度, 中心教师共发表 SCI 论文 645 篇, EI 论文 431 篇, ESI 论文 91 篇, 热点论文 5 篇。

4. 2017 年度, 中心教师获批授权专利 161 项, 其中发明专利 117 项, 实用新型专利 44 项; 登记软件著作权 28 项。专利转化 10 项, 总金额 732.4 万元。

5. 2017 年度, 中心教师荣获国家科学技术奖 4 项, 其中创新团队奖 1 项, 自然科学奖 1 项, 技术发明奖 1 项, 科技进步奖 1 项。获陕西省科学技术奖 3 项, 其中一等奖 1 项, 二等奖 2 项。

三、人才队伍建设

(一) 队伍建设基本情况

2017 年度, 中心共有固定人员 290 人, 其中教授 95 人, 副教授 105 人, 讲师 45 人, 各类工程技术人员 35 人。师资队伍中, 两院院士 4 人, 千人学者 2 人, 长江学者 11 人, 杰青 9 人, 其它各类人才 40 余人。

(二) 队伍建设的举措与取得的成绩

中心围绕建设世界一流学科和一流学院的总体目标，积极推进“人才强院”战略，本着定位明确、层次清晰、衔接紧密，促进优秀人才可持续发展的原则，以学科发展前沿、国家重大需求、国民经济主战场为导向，以培养和引进一批具有国际领先水平、引领学科发展方向的学科带头人、一群具有创新能力和发展潜力的青年学术带头人和学术骨干为目标，建立在国际能源动力、核科学与技术、环境工程领域富有创新能力和挑战精神、学科及学缘结构合理、能够引领国际学术前沿和国家重大需求与行业创新发展方向的人才队伍与科技创新团队，同时建立高效合理的用人机制和运行管理模式，不断提高对优秀人才的吸引力，保证持续稳定的创新研究能力，真正使中心成为优秀人才聚集和高层次人才辈出的创新基地。

2017 年度，中心新增中科院院士 1 人；双聘院士 1 人，青千 1 人；优青 1 人，青拔 5 人。新聘兼职教授 8 人。入选陕西省杰青 2 人；陕西省普通高校青年杰出人才支持计划 2 人。

2017 年度，中心教师何雅玲院士入选中央候补委员，郭烈锦教授荣获首届全国创新争先奖，黄佐华教授荣获“陕西省先进工作者”称号。

四、信息化建设、开放运行和示范辐射

(一) 信息化资源、平台建设，人员信息化能力提升等情况。

能源与动力工程专业实验教学示范中心建有自己的网站，网址为 <http://sfnd.xjtu.edu.cn>。网络教学资源包括：中心的实验教学平台介绍、中心开设的实验课程、实验项目介绍、实验指导书、实验教学大纲等。2017 年度网站访问总量 9015 人次，其中，信息化资源总量 132Mb，信息化资源年度更新量 21Mb。

2017 年度，核电厂-火电厂虚拟仿真实验教学示范中心建设取得了长足发展，完成了场地集中、设备安装、系统调试，并聘用了专职管理人员。目前中心面向全院师生开放的各类虚拟仿真实验项目 26 个，与实体实验相互补充，相得益彰。

配合热与流体实验课程的传热学实验教学,开通了传热学实验室的微信公众号,并在微信公众号内向学生提供实验用小程序,增加了实验教学信息化资源,提高了青年教师信息化应用的能力。

(二) 开放运行、安全运行等情况。

为提高教学实验仪器设备投资效益和使用效率,实现资源共享,中心面向校内外开放,并制定了相关管理实施细则。中心鼓励、支持校内外本科和研究生来中心进行开放性实验、双创项目、课外科技竞赛项目。2017 年度中心教师面向本科生开设开放性实验项目 170 项,选课学生达 357 人次。

中心全年运行安全、稳定,未发生任何的安全险情和事故。

(三) 对外交流合作、发挥示范引领、支持中西部高校实验教学改革等情况。

2017 年度,中心参加示范中心联系会活动 3 人次,承办国内外大型学术会议 10 次,在国内外大型会议做特邀报告 34 人次,举办第十届全国大学生节能减排大赛校内选拔赛,在广东省、湖北省重点中学做科普讲座 14 场次,与法国电力 EDF 联合举办了 2017 年 Code_Saturne 软件培训班,国内 20 余家高校、企业的 50 多位学员参加培训。接待了西北农林科技大学、南京能源学院、南京工业大学、山西能源学院、大连海事大学等高校相关领导和实验技术人员及北京“八一”学校师生、西安交大城市学院大一新生、能动学院毕业 30 周年返校校友的参观访问。

五、示范中心大事记

(一) 有关媒体对示范中心的重要评价,附相应文字和图片资料。

中心太阳能光热/光电利用综合实验平台郭烈锦教授团队承担的“煤炭超临界水气化制氢发电多联产技术”项目产业化在 2016 年 12 月 25 日正式启动。该成果改变了传统燃煤、煤气化锅炉及其发电技术“一把火烧煤”形式,成功将煤炭化学能高效转化为氢能,实现了煤炭能源的高效、洁净、无污染转化和利用。该项重大成果的产业化引发中央及地方媒体的高度关注,中央人民广播电台、新

华社、中国新闻社、中国日报、中国科学报、科技日报、文汇报、陕西日报、陕西电视台、东方卫视等媒体到场见证并相继于显著位置刊发深度专题报道，启动会入选了 2016 年陕西十大科技新闻。该项目还在 2017 年 2 月 9 日央视新闻联播播出的专题报道“陕西：释放收益权 加强科技成果转化”中进行了其产业化推进经验的介绍。



图为中央及地方媒体高度关注中心郭烈锦教授团队“煤炭超临界水气化制氢发电多联产技术”项目产业化。

（二）省部级以上领导同志视察示范中心的图片及说明等。

（三）其它对示范中心发展有重大影响的活动等。

六、示范中心存在的主要问题

- 1. 示范中心的网络化、信息化建设仍需进一步推进。加快建设示范中心信息化管理系统，积极开发虚拟仿真实验项目。
- 2. 受物理空间限制，示范中心的实验室、特别是专业实验室比较分散，既增加了管理难度，也影响了示范中心的展示度。
- 3. 示范中心应建立常态化的实验室建设和运行经费支持机制。

七、所在学校与学校上级主管部门的支持

能源与动力工程专业国家级实验教学示范中心（西安交通大学）在建设过程中得到了学校、学院的大力支持。中心获批 5 年来，学校先后投入 850 余万元资金支持中心的建设，并且在人才引进、设备采购、教改立项、国际交流、对外宣传等方面为中心提供支持和帮助。

八、下一年发展思路

1. 积极争取和利用“一流大学”“一流学科”建设经费，做好中心实验条件建设工作，重点做好新版培养方案新开实验项目所需的实验平台建设，做好老旧设备的升级换代改造。

2. 完成能源化工交叉实验平台建设，并面向全校本科生、研究生开放。

3. 充分利用已建成的7个大型综合实验平台，面向本科生、研究生开设一批探索性、创新性实验项目。

4. 加快中心的信息化建设步伐，依托中心的网络平台，建设中心的实验教学管理系统，逐步实现实验教学网上预习、预约登记、实验报告提交、批改等，精心设计和上线一批MOOC实验项目。

注意事项及说明：

1.文中内容与后面示范中心数据相对应，必须客观真实，避免使用“国内领先”、“国际一流”等词。

2.文中介绍的成果必须具有示范中心的署名。

3.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。

第二部分 示范中心数据

(数据采集时间为 1 月 1 日至 12 月 31 日)

一、示范中心基本情况

示范中心名称		能源与动力工程专业国家级实验教学示范中心（西安交通大学）			
所在学校名称		西安交通大学			
主管部门名称		教育部			
示范中心门户网站		http://sfnd.xjtu.edu.cn/			
示范中心详细地址		西安市咸宁西路 28 号		邮政编码	710049
固定资产情况		12000 万元			
建筑面积	5180 m²	设备总值	5152 万元	设备台数	510 台套
经费投入情况		850 万元			
主管部门年度经费投入 （直属高校不填）		万元	所在学校年度经费投入		250 万元

注:(1)表中所有名称都必须填写全称。(2)主管部门:所在学校的上级主管部门,可查询教育部发展规划司全国高等学校名单。

二、人才培养情况

(一)示范中心实验教学面向所在学校专业及学生情况

序号	面向的专业		学生人数	人时数
	专业名称	年级		
1	能源与动力工程	2014 级	274	17262
2	核工程与核技术	2014 级	129	5780
3	新能源科学与工程	2014 级	30	1890
4	环境工程	2014 级	31	2976
5	过程装备与控制工程	2014 级	42	2352
6	建筑环境与设备工程	2014 级	30	1440
7	土木工程	2014 级	27	108

8	机械工程	2014 级	218	872
9	车辆工程	2014 级	22	88
10	测控技术与仪器	2014 级	30	360
11	飞行器设计与工程	2014 级	35	1680
12	测控技术与仪器(食品方向)	2014 级	30	360
13	能源与动力工程	2015 级	286	6750
14	核工程与核技术	2015 级	84	992
15	新能源科学与工程	2015 级	29	1102
16	环境工程	2015 级	22	2112
17	建筑环境与设备工程	2015 级	23	138
18	能源与动力工程 核工程与核技术 新能源科学与工程 环境工程	2014 级 2015 级 2016 级 2017 级	357	2142
合计			1699	48404

注：面向的本校专业：实验教学内容列入专业人才培养方案的专业。

（二）实验教学资源情况

实验项目资源总数	346 个
年度开设实验项目数	319 个
年度独立设课的实验课程	7 门
实验教材总数	3 种
年度新增实验教材	1 种

注：(1) 实验项目：有实验讲义和既往学生实验报告的实验项目。(2) 实验教材：由中心固定人员担任主编、正式出版的实验教材。(3) 实验课程：在专业培养方案中独立设置学分的实验课程。

（三）学生获奖情况

学生获奖人数	132 人
学生发表论文数	16 篇（SCI）
学生获得专利数	5 项

注：(1) 学生获奖：指导教师必须是中心固定人员，获奖项目必须是相关项目的全国总决赛以上项目。(2) 学生发表论文：必须是在正规出版物上发表，通

讯作者或指导老师为中心固定人员。(3) 学生获得专利：为已批准专利，中心固定人员为专利共同持有人。

三、教学改革与科学研究情况

(一) 承担教学改革任务及经费

序号	项目/课题名称	文号	负责人	参加人员	起止时间	经费(万元)	类别
1	核电厂与火电厂系统虚拟仿真实验教学中心	教高厅函【2015】3号	吴宏春, 严俊杰		2014.12- -		a类
2	第二期来华留学英语授课品牌课程《流体力学》	教外司留[2017]40号	孙金菊	孙金菊、刘海湖、孙中国、王志恒、宋鹏	2017-2019	6.5	a类
3	适用能动专业大类基础课的《燃烧学》课程体系整体优化与教学内容改革	NDJZW2016Z-46	周屈兰	李娜、王海军、王跃社	2016.12-2018.12	5.0	a类
4	《热能与动力机械测试技术》课程综合实验平台的开发	NDJZW2016Y-64	张可	刘齐寿, 孟婧, 王小丹, 张瑜, 王桂芳	2016.12-2018.12	2.0	a类
5	传热学演示实验教学模式的改革与探索	NDJZW2016Y-59	孟婧		2016.12-2018.12	2.0	a类
6	能源环境专业设计性教学实验视的改革与实践	NDJZW2016Y-65	张瑜		2016.12-2018.12	2.0	a类
7	《自动控制原理》课程物理模拟实验系统的开发	NDJZW2016Y-61	王桂芳		2016.12-2018.12	2.0	a类
8	课内外实践教学相结合, 提升能源动力类专业本科生交叉学科创新能力的探索与实践	NDJZW2016Y-55	陈磊		2016.12-2018.12	2.0	a类

9	基于“90 后”能源动力类大学生的第二课堂综合素质培养研究	NDJZW2016Y-56	高琼#等		2016.12-2018.12	2.0	b 类
10	结合PBL 教学法《燃烧学》微课建设的探索研究	NDJZW2016Y-57	李娜		2016.12-2018.12	2.0	a 类
11	“卓越化、国际化、研究型”导向的EES在热流课程中的研究与实践	NDJZW2016Y-58	刘迎文		2016.12-2018.12	2.0	a 类
12	依托国家精品资源共享课《制冷与低温技术原理》的师资队伍建设	NDJZW2016Y-60	蒲亮		2016.12-2018.12	2.0	a 类
13	学生能力为本的人才培养模式创新与实践--以《工程热力学》为例	NDJZW2016Y-62	王晓坡		2016.12-2018.12	2.0	a 类
14	《流体力学》互动式教学和生成式教材建设模式改革探索	NDJZW2016Y-63	张荻		2016.12-2018.12	2.0	a 类
15	新工科”建设背景下“三位”一体培养能源动力自主创新型人才	NDXGK2017Z-01	王秋旺	陈磊、曾敏、赵存陆、杨剑、马挺	2018-2020	5.0	a 类
16	适用新工科发展的热流人才“双一流”个性化培养探索	NDXGK2017Z-04	唐桂华	马挺、付雷、李平、陈磊、杨富鑫、许清源、汤敏	2017.12-2019.12	5.0	a 类
17	适应新工科理念的《燃烧学》教学信息化探索与实践	NDXGK2017Z-12	周屈兰	李娜,王海军,王跃社,汤成龙	2017.12~2019.12	5.0	a 类
18	《能源与经济》多学科交叉复合的全英文课程的建设	NDXGK2017Y-40	李明佳	席奂、程泽东、汤敏、徐丹、郭嘉琪	2017.12~2019.12	2.0	a 类
19	以实践教学为推手,提升工科大		陶文铨	陈磊、冀文涛、李增耀、	2015.5-2017.9	5.0	a 类

	学生跨学科创新能力的探索与实践			张剑飞			
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注：(1) 此表填写省部级以上教学改革项目（课题）名称：项目管理部门下达的有正式文号的最小一级子课题名称。(2) 文号：项目管理部门下达文件的文号。(3) 负责人：必须是中心固定人员。(4) 参加人员：所有参加人员，其中研究生、博士后名字后标注*，非本中心人员名字后标注#。(5) 经费：指示范中心本年度实际到账的研究经费。(6) 类别：分为 a、b 两类，a 类课题指以示范中心为主的课题；b 类课题指本示范中心协同其它单位研究的课题。

（二）承担科研任务及经费

序号	项目/课题名称	文号	负责人	参加人员	起止时间	经费 (万元)	类别
1	跨音速轴流压气机内部激波-边界层干涉机理及控制研究	51606141	宋鹏		201701-201912	20	a 类
2	Cu 等离子体共振增强光电催化性能的双重构效关系耦合调控	51672210	沈少华		201701-202012	62	a 类
3	燃煤锅炉烟气深冷过程积灰与低温腐蚀的耦合作用机理研究	51606144	王云刚		201701-201910	20	a 类
4	重金属废液高效处理、产电及资源回收技术研究	2017JM5004	陈庆云		201701-201812	5	a 类
5	电堆性能预测模型及设计通用软件开发研究	2017YFB0102703	屈治国		201707-202106	464	a 类
6	微细多孔介质中耦合多相流和传质反应过程机理孔尺度研究	51776159	陈黎		201801-202112	56	a 类

7	高温固体散料余热梯级回收及品位提升技术	2017YFB0603500	王秋旺		201707-202006	1927	a 类
8	动力工程多相流国家重点实验室	2017 国重实开放运行费-1	郭烈锦		201701-201712	500	a 类
9	Cu ₂ ZnSnS ₄ 光电功能材料成分、结构和性能的自掺杂调控及其作用机制	21606175	陈玉彬		201701-201912	20	a 类
10	无水坝抽水蓄能系统及其内部高压溶气问题研究	51676151	王焕然		201701-202012	50	a 类
11	固体氧化物燃料电池多重衰退机理及辨识研究	51676161	张兄文		201701-202012	60	a 类
12	通航/无人机动力特殊构件铣削工艺研究与验证	2016KTZDCY-01-02HZ	樊宏周		201703-201801	25	a 类
13	池式钠冷快堆盒间流传热机理及其对余热排出能力影响研究	11605131	张亚培		201701-201912	23	a 类
14	页岩气吸脱附扩散多尺度传输机理研究	51676153	屈治国		201701-202012	67	a 类
15	典型间壁式热交换器能效指标和评价方法研究	2017YFF0209802HZ02	骆政园		201707-202012	35	a 类
16	熔盐堆氦输运特性及其与堆物理-热工特性相互作用机制研究	11705138	王成龙		201801-202012	25	a 类
17	池式钠冷快堆钠池热分层形成机理及对事故余热排出特性影响研究	11705139	王明军		201801-202012	28	a 类
18	快堆钠池自由液面卷吸现象机理及其缓解措施研究	11775174	巫英伟		201801-202112	70	a 类

19	页岩气吸附、解吸和流动机理研究	2017JM5131	陈磊		201701-201812	3	a 类
20	雾霾治理中的热物理性质基础问题研究	省科协 20170501	宋渤		201801-201912	1	a 类
21	固体散料余热高效梯级回收利用集成与示范	2017YFB0603504	戴义平		201707-202006	465	a 类
22	油藏条件下二甲醚-烃类体系相平衡及黏/密度实验与理论研究	51776170	王晓坡		201801-202112	60	a 类
23	吸热型碳氢燃料流体动力学理论建立和实验验证	51776167	毕勤成		201801-202112	60	a 类
24	湿度均匀性控制中液滴与空气热湿交换机理研究	51641608	蒲亮		201701-201712	15	a 类
25	纳米颗粒吸附界面对流场中液滴动力学行为的调控机理	51606146	骆政园		201701-201912	20	a 类
26	往复活塞磁力导向的多场耦合规律及协同调控机制研究	51676150	余小玲		201701-202012	60	a 类
27	大尺寸单晶硅提拉生长过程中熔体流动不稳定性及其对结晶界面形态的影响机理	51676154	刘立军		201701-202012	74	a 类
28	基于速率理论并结合相场及原子尺度计算的适用于快堆金属燃料的裂变气体释放及燃料肿胀模型研究	11675126	恽迪		201701-202012	60	a 类
29	陕西省高校科协青年人才托举计划项目	2016 青年人才托举工程 02	马挺		201701-201812	1	a 类
30	碳氢燃料导热系数的实验研究	51676160	赵小明		201701-202012	60	a 类

31	两流体双压力模型数值算法研究及其在多尺度核电厂系统瞬态分析中的应用	11675125	单建强		201701-202012	60	a 类
32	离子液体预处理生物质中液液相平衡的实验与理论研究	51606147	杨富鑫		201701-201912	21	a 类
33	燃气轮机高温叶片随机不确定性量化的研究	51676149	宋立明		201701-202012	65	a 类
34	Si-CO ₂ 热功转换机理和透平设计理论	2017YFB0601804	李军		201707-202106	447	a 类
35	基于光学调控机制的微纳颗粒悬浮液相界面特性及其颗粒动力学研究	51776165	敬登伟		201801-202112	60	a 类
36	电催化氧化过程中的动态电流调控机制研究	2017JM2015	徐浩		201701-201812	4	a 类
37	碘在过渡金属及其氧化物和矿物表面吸附的微观机理研究	11775168	赵耀林		201801-202112	64	a 类
38	碱性直接液体燃料电池质-荷-电耦合传输特性研究	51776156	李印实		201801-202112	58	a 类
39	第四代核电钠-空气换热器传热关键技术研发	2017 其他纵向07	李会雄		201701-201812	9	a 类
40	造纸黑液超临界水气化多联产能源动力系统集成与优化研究	51606150	曹长青		201701-201912	20	a 类
41	新型低碳制冷剂 R450A 在折面螺旋折流板管束间冷凝机理及其传热强化的研究	51676146	文键		201701-202012	70	a 类

42	横向非均匀加热大宽高比矩形窄缝通道内流动换热特性研究	11675127	张大林		201701-20 2012	70	a 类
43	核能发展基础科学问题研	11645008	曹良志		201701-20 1712	19	a 类
44	页岩气传输的多尺度多物理高阶格子玻尔兹曼模型	51711530 130	刘海湖		201701-20 1712	10	a 类
45	高保真的全堆芯共振参数计算方法研究	11605128	祖铁军		201701-20 1912	25	a 类
46	超临界二氧化碳直接冷却快堆的瞬态特性及控制策略研究	11605132	吴攀		201701-20 1912	24	a 类
47	加压富氧煤粉燃烧模式下灰颗粒和 SO ₃ 的演化及耦合作用机理	51676157	王学斌		201701-20 2012	60	a 类
48	建筑室内空气颗粒物与温湿度控制策略及方法研究	2017YFC 0702702 HZ	陶文铨		201707-20 2006	120	a 类
49	磁性纳米颗粒流体在液滴型振动能量转换装置的应用及其动力学行为研究	51728602	唐桂华		201801-20 1912	18	a 类
50	抽水压缩空气蓄能系统研究	2017ZDX M-GY-12 7	王焕然		201701-20 1912	45	a 类
51	核电厂反应堆的高保真核热耦合瞬态分析方法研究	11775169	吴宏春		201801-20 2112	74	a 类
52	工业 VOCs 废气低温等离子体控制技术的基础研究	2017JM5 067	刘红霞		201701-20 1812	3	a 类
53	S-CO ₂ 燃煤发电系统流动传热机理及关键换热技术	2017YFB 0601803	唐桂华		201707-20 2106	667	a 类

54	高压下湍流和火焰自身不稳定性对预混湍流火焰结构影响规律研究	51706172	张猛		201801-20 2012	26	a 类
55	一带一路重点国别研究——能源发展战略研究	2017 其 他纵向 03	王海军		201708-20 1712	10	a 类
56	射流凝结气液界面动态演化及诱发噪声机理研究	51706174	徐强		201801-20 2012	24	a 类
57	深低温系统氦两相透平膨胀机内自发凝结流动特性研究	51776148	陈双涛		201801-20 2112	60	a 类
58	富氢燃料输运特性及湍流尺度对预混湍流火焰动力学影响机制研究	51776164	王金华		201801-20 2112	60	a 类
59	数值反应堆多物理耦合分析不确定度量化方法研究	11735011	曹良志		201801-20 2212	310	a 类
60	车载质子直线加速器中子源长寿命固态锂靶系统关键问题研究	11775166	王盛		201801-20 2112	68	a 类
61	一维有序分枝型复合光催化剂构筑及光生载流子强化利用研究	2017JM2 022	杨国锐		201701-20 1812	3	a 类
62	中国汽油的基础燃烧特性和化学反应动力学机理研究	91641124	胡二江		201701-20 1912	60	a 类
63	压力容器下封头内熔融物动态分层行为的机理研究	11605129	李根		201701-20 1912	24	a 类
64	超临界 H ₂ O/CO ₂ /H ₂ 中氢的燃烧与混合工质化学反应流及	2016YFB 0600102- 2HZ	吕友军		201701-20 1912	165	a 类

	其数理建模仿真						
65	核反应堆严重事故下蒸汽爆炸研究	2016 青年人才托举工程 03	陈荣华		201701-201812	1	a 类
66	超临界水循环流化床反应器提升管两相流动传热特性及机理研究	51676158	吕友军		201701-202012	65	a 类
67	大功率 LED 照明器具的生命周期加速测试及高效冷却技术	2017YFE0100600	赵亮		201710-202009	223	a 类
68	反应堆物理程序在新型快堆设计中应用的确认方法研究	11775170	郑友琦		201801-202112	70	a 类
69	数值堆系统设计与数学物理建模	2017YFB0202301 HZ	秋穗正		201707-202106	165	a 类
70	铁素体钢中碳化物对 Cr 元素晶界辐照诱导偏析的影响研究	11705137	柳文波		201801-202012	29	a 类
71	能源高效利用中关键热流科学问题的基础研究	51721004	何雅玲		201801-202312	1050	a 类
72	泡沫陶瓷部分燃烧的煤气化焦油消除重整关键技术研究	2017GY-167	高宁博		201701-201812	10	a 类
73	用于压水堆核电厂多尺度瞬态分析的三维三流场两相流模型及高保真高效算法研究	11775173	苟军利		201801-202112	58	a 类
74	碱金属富集型燃料焦炭燃烧与多模态 PM 生成特性及其耦合机理	51776161	牛艳青		201801-202112	60	a 类
75	气液两相燃烧过程化学反应流	51722603	汤成龙		201801-202012	130	a 类

76	复合改性表面低沸点工质相变换热机理研究	51776160	冀文涛		201801-202112	61	a 类
77	太阳能驱动的超临界 CO ₂ 布雷顿发电系统运行特性与协调控制研究	2017JM5091	赵攀		201701-201812	3	a 类
78	高精度时空间断谱元方法求解复杂区域跨音速流动及声传播问题	51776155	秦国良		201801-202112	60	a 类
79	固体氧化物燃料电池电极微观结构内的多物理场耦合效应及多目标优化研究	51776172	李国君		201801-202112	62	a 类
80	太阳能驱动的“热-电-污”综合能源利用系统集成及运行特性研究	51706176	席奂		201801-202012	24	a 类
81	燃煤发电机组变工况瞬态过程高效性与灵活性的协同机理研究	51776146	刘明		201801-202112	60	a 类
82	超声导波驱动的疏水表面液滴输运行为机理研究	51776149	龚建英		201801-202112	60	a 类
83	燃料电池堆过程建模仿真、状态观测及寿命评价方法研究	2017YFB0102700	屈治国		201707-202106	1832	a 类
84	高温高压条件下 CO ₂ /长链重质烷烃体系的热物理性质研究	51776171	毕胜山		201801-202112	60	a 类
85	高温热电转换系统的流-热-电耦合机理、梯级调控及对流强化	51676155	马挺		201701-202012	60	a 类
86	羧降解菌 <i>Pseudomonas putida</i> ND6 中接合转移系统的作用	31670512	李珊珊		201701-202012	62	a 类

	机制及环境迁移性能研究						
87	基于鸟类翅膀的多元耦合仿生叶片协同降噪机理研究	51676152	刘小民		201701-20 2012	60	a 类
88	丙烷旋转式压缩机启动过程气缸内工质液化机理研究	51676147	吴建华		201701-20 2012	60	a 类
89	高温高压高黏度标准物质的研究	51676159	孟现阳		201701-20 2012	65	a 类
90	失控放射源探测定位与处置智能机器人技术研究	2017CXG C0916	贺朝会		201701-20 2012	63	a 类
91	先进低碳燃烧过程中超细颗粒物的形成机理研究	51761125 012HZ	王学斌		201701-20 2112	72	a 类
92	典型接触式热交换设备能效评价关键键技术研究	2017YFF 0209803 HZ	孟婧		201701-20 2012	30	a 类
93	煤炭超临界水气化制氢反应器煤浆喷嘴技术研究	2017ZDX M-GY-06 7	敬登伟		201701-20 1912	45	a 类
94	车载加速器中子照相系统关键技术研究	2016YFE 0128900	王盛		201701-20 1912	167.78	a 类
95	锗硅异质结双极晶体管的质子辐照效应及影响因素研究	11775167	贺朝会		201701-20 2112	78	a 类
96	微型低温节流制冷器热力过程与换热耦合调控机理研究	51706169	陈良		201701-20 2012	25	a 类
97	第十二届国际绿色能源会议	51742607	王秋旺		201701-20 1712	6	a 类
98	动密封微小通道内动压效应诱发气流激振的流固耦合机理与增稳抑振研究	51776152	李志刚		201701-20 2112	58	a 类
99	考虑槽缝和气膜孔射流冷气掺混	51776151	李军		201701-20 2112	60	a 类

	的高负荷透平静叶非轴对称端壁气热性能和流热耦合机理研究						
100	甲醇掺入对不同不饱和度环烃化学反应动力学特性扰动作用机制研究	51776163	李倩倩		201701-202112	60	a 类
101	基于高保真堆芯热工水力与燃料行为耦合模型的快堆金属燃料包壳失效机制研究	11705140	张博		201701-202012	25	a 类
102	多联供能源转换系统集成优化技术研究	2017YFB0603904 HZ	王顺森		201701-202112	68	a 类
103	“气-水-电-热-力”多场耦合模型研究	2017YFB0102702	陈黎		201701-202112	288	a 类
104	混合型纳米流体冲击射流流动和换热机理研究	2017JQ5096	李平		201701-201812	3	a 类
105	动力工程多相流国家重点实验室	2017 国重实仪器设备费-1	郭烈锦		201701-201712	523	a 类
106	基于大规模并行的数值反应堆高保真三维耦合输运计算方法研究	11605130	刘宙宇		201701-201912	26	a 类
107	汽液直接接触换热过程汽泡湮灭致压力振荡的机理研究	51606145	邱斌斌		201701-201912	21	a 类
108	先进核反应堆多尺度物理热工耦合设计及安全分析	11622541	田文喜		201701-201912	130	a 类
109	双超临界流体间传热特性及复杂通道对其影响研究	11675128	王海军		201701-202012	60	a 类
110	碳量子点耦合钙钛矿可见光催化	2017 开放基金	饶永芳		201701-201812	10	a 类

	剂的合成及净化 NO _x 的效能	14					
111	典型间壁式热交 换器能效指标和 评价方法研究	2017YFF 0209802 HZ01	刘佳		201701-20 2012	20	a 类
112	S-CO ₂ 燃煤发电系 统概念设计与评 价理论	2017YFB 0601801 HZ	李明佳		201701-20 2106	120	a 类
113	温和灸治疗溃疡 性结肠炎的热物 理机理及量效关 系研究	51706177	邝九杰		201701-20 2012	24	a 类
114	加压富氧煤粉燃 烧模式下灰颗粒 和 SO ₃ 的演化及耦 合作用机制	2017JZ01 0	王学斌		201701-20 1912	10	a 类
115	基于气泡尺度的 携砂 VES-CO ₂ 泡沫 液在裂缝中的多 相流动与颗粒运 移机制	51706173	景泽锋		201701-20 2012	24	a 类
116	孔尺度视角下焦 炭颗粒-超临界水 界面反应的热质 传递特性研究	51776169	金辉		201701-20 2112	61	a 类
117	双燃料缸内直喷 发动机反应活性 控制压燃 (RCCI) 混合过程对燃烧 影响的机理研究	51706171	杨博		201701-20 2012	25	a 类
118	深低温氦透平膨 胀机的设计理论 与自耦匹配特性 研究	51776150	侯予		201701-20 2112	63	a 类
119	离子液体基纳米 流体对 HF ₀ 制冷剂 吸收机理的研究	2017JQ50 53	刘向阳		201701-20 1812	3	a 类
120	基于激光散斑成 像的皮肤组织结 构无损探测与血 管性皮肤病个性 化智能精准诊疗 装置	51727811	陈斌		201701-20 2212	547.66	a 类

121	浓盐水在中高温环境下喷雾蒸发析盐过程的热动力学特性研究	51776145	郭朋华		201701-20 2112	60	a 类
122	反应活性可控氛围下预混压燃发动机颗粒物微观理化特性及其形成机理的研究	51776162	汪映		201701-20 2112	58	a 类
123	含微细粉体颗粒流能质传递机理及强化方法	2017YFB 0603501	王秋旺		201701-20 2006	523	a 类
124	基于微介孔分子筛限域的铂族金属-稀土复合材料上含氮/氧 VOCs 的氧化过程与反应机制	21677114	何炽		201701-20 2012	67	a 类
125	准东煤燃料特性及锅炉燃用准东煤性能研究	2015BAA 04B02HZ	邓磊		201701-20 1812	61.5	a 类
126	动力工程多相流国家重点实验室	2017 国 重实基本 科研费-1	郭烈锦		201701-20 1712	600	a 类
127	超临界水流化床反应器介尺度流动结构形成机理及对动量传递作用机制	91634109	吕友军		201701-20 1912	67	a 类
128	PM2.5 与 Hg 的联合脱除关键技术及应用	2016YFB 0600605	杨富鑫		201701-20 2012	89	a 类
129	高压湍流火焰结构测量与表征	2017 开 放基金 20	王金华		201701-20 1812	4.9	a 类
130	西安 PM2.5 中棕碳气溶胶的光学特征及来源	2017 开 放基金 23	沈振兴		201701-20 1812	10	a 类
131	核与辐射安全监督技术支持	2017 环 保部项目 01	张大林		201701-20 1712	17	a 类
132	稳定同位素与宏基因组学技术联合研究陕北黄土	31670510	梁继东		201701-20 2012	62	a 类

	石油污染原位生物修复机制						
133	含微细粉体宽粒径颗粒流直接/间接传热及强化	2017YFB0603502-2HZ	杨剑		201701-202006	110	a 类
134	超低渗透率油藏条件下 CO ₂ /原油体系热物理性质及封存规律研究	2017KW-038	吴江涛		201701-201812	20	a 类
135	液态溶渣离心粒化及余热高效回收和利用系统集成技术	2017YFB0603604	王树众		201701-202006	614	a 类
136	超低挥发碳基燃料低 NO _x 燃烧技术	2017YFB0602003	王长安		201701-202012	492	a 类
137	海峡两岸太阳能领域合作共识研讨会	51781260633	沈少华		201701-201712	1.97	a 类
138	我国家用燃煤源气溶胶的光学性质及其对辐射强迫的影响	41705106	田杰		201701-202012	24	a 类
139	钙钛矿氧化物催化过硫酸盐对含氮消毒副产物降解效能与机理研究	2017JM5074	饶永芳		201701-201812	3	a 类
140	压水堆堆芯 Pin-by-pin 燃料管理计算关键技术研究	11775171	李云召		201701-202112	76	a 类
141	考虑多源不确定性的离心叶轮气动外形与公差约束协同优化研究	51776154	琚亚平		201701-202112	58	a 类
142	吸热型遮光剂掺杂 SiO ₂ 气凝胶的隔热性能的理论实验研究	51776158	李增耀		201701-202112	64	a 类
143	特种设备工作经费	2017 其他纵向 02	屈治国		201701-201712	30	a 类
144	喷射器增效自复叠制冷系统的工	51776147	鱼剑琳		201701-202112	60	a 类

	质分布迁移机理及动态特性研究						
145	直接激光沉积中金属熔池演化过程能量运输的多尺度行为研究	51776157	曾敏		201701-20 2112	62	a 类
146	X 射线自由电子激光偏振控制的物理机制与诊断技术研究	11775293 HZ	张清民		201701-20 2112	35	a 类
147	核反应堆热工水力学科设置研讨会	51742602	苏光辉		201702-20 1706	10	a 类
148	高效环保型煤粉工业锅炉研究	2017YFB 0603902	王学斌		201707-20 2106	400	a 类
149	能源与环境中的热质传递国际联合研究中心	2017GHJ D-001	何雅玲		201701-20 1712	20	a 类
150	预混湍流火焰动力学实验及数值模拟研究	2017KJX X-65	王金华		201701-20 1912	10	a 类
151	榆林市高能醇基燃料工程技术研究	榆林 2017KJJ H-04	郭烈锦		201706-20 1906	20	a 类

注：此表填写省部级以上科研项目（课题）。

（三）研究成果

1. 专利情况

序号	专利名称	专利授权号	获准国别	完成人	类型	类别
1	一种非共沸混合工质分凝循环的新型冰箱制冷系统	ZL20151092 9109.8	中国	陈旗 晏刚 鱼剑琳	发明	独立完成
2	一种带截止功能的四通换向阀	ZL20151099 6301.9	中国	陈旗 晏刚 陈晓园 鱼剑琳	发明	独立完成
3	一种以二氧化碳为工质的低温热管换热器	ZL20161058 5764.0	中国	侯予 张泽 郭雨 陈双涛 刘秀芳 张兴群	发明	独立完成
4	一种填充气凝胶 ICF 冷冻靶系统	ZL20161079 3486.8	中国	厉彦忠 陈鹏玮 李翠	发明	独立完成

5	一种低温推进剂快速过冷装置	ZL201511004824.7	中国	厉彦忠 谢福寿 朱康 王鑫宝 马原	发明	独立完成
6	一种采用喷射器增效的自复叠单温或双温制冷循环系统	ZL201510931927.1	中国	晏刚 白涛 鱼剑琳	发明	独立完成
7	一种厨房冰箱空调一体机的制冷系统、结构及其控制方法	ZL201510375147.3	中国	晏刚 周敏	发明	独立完成
8	一种喷射器增效的分凝式蒸气压缩制冷循环系统	ZL201510243869.3	中国	鱼剑琳 陈佳恒 晏刚 刘小琴	发明	独立完成
9	一种气-气喷射器增效的自复叠蒸气压缩式制冷循环系统	ZL201610020605.6	中国	鱼剑琳 刘烨 陈佳恒 晏刚	发明	独立完成
10	一种带气液分离器的风冷蒸发器	ZL201410482575.1	中国	鱼剑琳 吕小龙 晏刚 刘小琴	发明	独立完成
11	一种基于半导体过冷增效的冷冻箱蒸气压缩复合循环系统	ZL201510227456.6	中国	鱼剑琳 朱琳 晏刚 刘晔	发明	独立完成
12	一种太阳能-褐煤耦合互补发电系统	ZL2014105628869	中国	刘明、严俊杰、陈伟雄、薛朝囡、韩小渠	发明	独立完成
13	一种轴向可伸缩的阶梯形组合式文丘里混合器	ZL201510725953.9	中国	孔伟佳 刘明 吴东垠	发明	独立完成
14	一种阶梯型文丘里混合器	ZL201510727761.1	中国	孔伟佳 刘明 吴东垠	发明	独立完成
15	一种根据经济价值指标进行优化运行的锅炉系统	ZL201610340229.9	中国	李明佳 吴明 陶文铨	发明	独立完成
16	一种多电晕线三角布置且收尘极板为凸凹型电除尘器	ZL201510390725.0	中国	刘继平 刘鹏坤 邢秦安 严俊杰 种道彤 王进仕 刘明 陈伟雄	发明	独立完成
17	一种利用汽轮机排汽余速损失的导流器	ZL201610070162.1	中国	刘继平 邢秦安 严俊杰 种道彤 王进仕 刘明	发明	独立完成
18	一种采用多级热泵的大热电比热	201511017757.2	中国	刘明 严俊杰 赖芬 种道彤 刘继	发明	独立完成

	电联产系统及其工作方法			平 邢秦安 王进仕		
19	一种基于磁性颗粒的光热磁耦合产氢实验装置	ZL2016106437961	中国	敬登伟,周建东,沈少华	发明	独立完成
20	一种用于研究变热负荷下吸热器受热面流量和管壁温度的实验装置	ZL2015103539244	中国	王跃社,郝芸,魏进家,胡甜	发明	独立完成
21	一种集输—立管系统内气液两相流流型的在线识别方法	ZL2015101846002	中国	郭烈锦、叶晶、周宏亮、李文升、谢晨	发明	独立完成
22	辐射能传播蒙特卡洛算法中的局部网格及光子加密方法	ZL2015101497853	中国	李东、陈斌、王国祥、何雅玲	发明	独立完成
23	一种动态控制分离器压力抑制严重段塞流的方法	ZL201510125591X	中国	郭烈锦、周宏亮、谢晨、李文升	发明	独立完成
24	一种在熔体区域具有搅拌环的直拉法单晶硅生长装置	ZL2015101117426	中国	刘立军、周俊安、赵文翰	发明	独立完成
25	超临界水气化偏二甲肼废液的方法	ZL2015100580726	中国	郭烈锦、伊磊、侯瑞琴、欧阳晓平、金辉、朱超	发明	独立完成
26	一种用于熔融盐冲刷腐蚀测量的实验装置	ZL201510312388.3	中国	毕勤成 姚凡 孙汝雷	发明	独立完成
27	一种基于折射的太阳能均光管式反应器或干燥器	ZL201510697002.5	中国	范亮亮 赵亮 赵宏	发明	独立完成
28	基于折射的太阳能均光管式反应器或干燥器及其设计方法	ZL201510691132.8	中国	范亮亮 赵亮 赵宏 杨艳	发明	独立完成
29	一种用于高温高压的双毛细管粘度计及其测试方法	ZL201410805224.X	中国	刘朝晖 杨竹强 毕勤成	发明	独立完成
30	一种可同时测量多种 SCR 催化剂	ZL2016104456239	中国	张晓璐;惠世恩;牛艳青;雷雨;吕	发明	独立完成

	的测试装置			媛		
31	一种褐煤半焦贫氧燃烧锅炉	ZL2016101532724	中国	刘银河;车得福;张勇;张玉斌;杨天亮;李庚达;刘汉强;郭桦	发明	独立完成
32	一种用于带压条件下的三相分离装置	ZL2016101368363	中国	王树众;王来升;李艳辉;王玉珍;张洁;宋文瀚;王明	发明	独立完成
33	一种用于超临界水氧化系统的中间介质换热装置	ZL2016101366940	中国	王树众;任萌萌;唐兴颖;张洁;王玉珍;李艳辉	发明	独立完成
34	同时控制生物质CFB 锅炉受热面结焦腐蚀和 NOx 排放的方法	ZL2015106954395	中国	王学斌,胡中发,张兰,李文广,谭厚章,吴红英	发明	独立完成
35	高温高压泡沫压裂液滤失伤害实验系统	ZL2015106958199	中国	王树众,罗向荣,吕明明,景泽锋,翟镇德,韩涛	发明	独立完成
36	一种多物料同步混合与连续微量给粉装置	ZL2015105419548	中国	牛艳青,刘兴,朱铁铭,谭厚章	发明	独立完成
37	一种生物质锅炉硅酸盐结渣趋势的判定方法	ZL2015104506587	中国	牛艳青,朱铁铭,刘兴,谭厚章	发明	独立完成
38	气体流量与组分浓度的一体化测量方法及装置	ZL2015102022673	中国	刘银河、刘晓倩、张云、刘子玉、车得福	发明	独立完成
39	管内相分隔式高含气率气液两相流体流量测量装置及方法	ZL201410276592.X	中国	王栋 卫鹏凯 王帅 杨杨	发明	独立完成
40	基于管内相分隔技术的液液两相流体流量测量装置及方法	ZL201410356391.0	中国	王帅 王栋 张兴凯 杨杨 史红卫 卫鹏凯 张荣幸	发明	独立完成
41	一种垂直烟道内的换热器布置结构	ZL201511027835.7	中国	杨文君 王云刚 赵 钦 新 马 信 张咪 谢昌亚	发明	独立完成
42	一种具有喉口插板的喉口面积可调节的临界流文丘里喷嘴	ZL201410851374.4	中国	张兴凯 王栋 郭省学 刘明 逯国成 史红卫 张雪 张荣幸	发明	独立完成

43	一种具有喉口转轮的喉口面积可调节的临界流文丘里喷嘴	ZL201410850442.5	中国	张兴凯 王栋 郭省学 刘明 逯国成 王帅 卫鹏凯 杨杨	发明	独立完成
44	一种窄间隙扁圆形双盘管整体冷凝锅炉	ZL201410140299.0	中国	赵钦新 陈中亚 王云刚 李钰鑫 陈衡 马海东 梁志远	发明	独立完成
45	一种抗湿烟气复合型低温腐蚀的烟气加热器	ZL201510522777.9	中国	赵钦新 潘佩媛 焦健 梁志远 王云刚	发明	独立完成
46	一种烟气除尘脱硫脱硝一体化系统及方法	ZL201510524102.8	中国	赵钦新 孙一睿 杨文君 潘佩媛 谢昌亚 王云刚	发明	独立完成
47	一种可水平放置的氟塑料管式换热器	ZL201610127712.9	中国	赵钦新 张咪 潘佩媛 梁志远 王云刚 严俊杰	发明	独立完成
48	一种三通道硫磺回收燃烧器	ZL201610424577.4	中国	周屈兰 黄山 李娜 张立胜 田芳勇	发明	独立完成
49	一种获取反应堆堆芯中子通量密度精细分布的方法	ZL201610472997.X	中国	李云召 梁博宁 吴宏春 郑友琦	发明	独立完成
50	蜂窝型燃料组件及长寿命超临界二氧化碳冷却小堆	ZL201510729024.5	中国	曹良志 刘保林 吴宏春	发明	独立完成
51	一种采用棒状燃料组件的超临界二氧化碳冷却小堆	ZL201610473614.0	中国	曹良志 刘保林 吴宏春 李云召	发明	独立完成
52	获取不同燃耗下有效增殖因子对截面的灵敏度系数的方法	ZL201510727634.1	中国	曹良志 杨超 吴宏春	发明	独立完成
53	一种精确计算燃料组件棒功率分布的方法	ZL201510726616.1	中国	李云召 田超	发明	独立完成
54	一种减小反应堆逐棒计算中组件外围棒功率误差的方法	ZL201510727633.7	中国	李云召 张斌	发明	独立完成
55	核反应堆堆芯下	ZL20161032	中国	苏光辉 孙汝雷	发明	独立完

	管座异物过滤性能研究可视化试验装置	7331.5		于国军 陈荣华 田文喜 秋穗正		成
56	一种基于热电厂辅汽系统的大型蒸汽试验系统及方法	ZL201510038989.X	中国	苏光辉 田文喜 蔚江涛 巫英伟 秋穗正 刘镝	发明	独立完成
57	一种汽水分离再热器换热管束实验装置及方法	ZL201510039037.X	中国	苏光辉 田文喜 蔚江涛 巫英伟 秋穗正 郑美银	发明	独立完成
58	一种超临界氟利昂换热实验系统及其实验方法	ZL201510740003.3	中国	苏光辉 于国军 田文喜 秋穗正 田永红	发明	独立完成
59	一种以导热油为热流体的高温工质换热试验系统及方法	ZL201510411463.1	中国	田文喜 蔚江涛 苏光辉 秋穗正 刘镝 郑美银 张魁 刘亚庆	发明	独立完成
60	一种诊断反应堆中子探测器失效的方法	ZL201610471993.X	中国	吴宏春 李茁 曹良志 郑友琦	发明	独立完成
61	一种采用双重洗涤法制备高纯度一水合硫酸锰的方法	ZL2014108333031	中国	冯江涛、刘建伟、徐浩、延卫	发明	独立完成
62	一种双壳式抽水蓄能系统	ZL2016101580268	中国	王焕然,李瑞雄,席光,姚尔人,王启明	发明	独立完成
63	电石冷却装置及其方法	ZL2015109084736	中国	王焕然,李瑞雄,席光,王启明	发明	独立完成
64	带级间冷却的两级大流量斜流压缩机	ZL2015106645298	中国	席光;唐永洪	发明	独立完成
65	带级间冷却的两级大流量斜流-离心组合压缩机	ZL2015106617616	中国	席光;唐永洪	发明	独立完成
66	具有边壁喷水管的喷雾轴流风机	ZL2015103749365	中国	李景银;熊璘;崔浩禹	发明	独立完成
67	基于分区域切削的离心压缩机叶轮五坐标铣削方法	ZL2015103323108	中国	樊宏周,席光,王伟	发明	独立完成
68	一种冷热电联供的压缩空气储能系统	ZL2014107832761	中国	王焕然、姚尔人、席光	发明	独立完成

69	离心压缩机扩压器的端壁结构及端壁处理方法	ZL2015100580745	中国	陈雪飞、秦国良	发明	独立完成
70	用于扩大离心风机出口面积的降噪蜗壳	ZL2015100472990	中国	李景银、陈聪聪、耿文倩	发明	独立完成
71	一种具有局部柔性结构的离心式风机叶轮叶片	ZL2013106387564	中国	张家忠、段思明、任小龙、王乐	发明	独立完成
72	一种可适应大范围背压及流量的超临界二氧化碳透平装置	ZL2016104072239	中国	张荻,王雨琦,谢永慧	发明	独立完成
73	一种核态池沸腾降噪减振节能的方法	ZL2016102794550	中国	李印实,田地,夏斯琦,严天	发明	独立完成
74	一种采用瞬态热膜法测量流体导热系数的装置及求解方法和测量方法	ZL2016108252616	中国	赵小明;姚传奇	发明	独立完成
75	一种非均匀分布肋片的高温高压板式换热器	ZL2015109412228	中国	王秋旺;褚雯霄;马挺;曾敏	发明	独立完成
76	一种被动式直接液体燃料电池及其制备方法	ZL2015106838820	中国	李印实,曹杨,何雅玲,陈杰	发明	独立完成
77	一种蜂窝状腔极一体化燃料电池电极及其制备方法	ZL2015104389920	中国	李印实,陈杰,贾哲,姜飒	发明	独立完成
78	一种紧凑式圆柱形离子交换膜燃料电池及其制备方法	ZL2015104377181	中国	李印实,曹杨,何雅玲,贾哲	发明	独立完成
79	一种流场梯级分布的一体化燃料电池电极及其制备方法	ZL2015104383572	中国	李印实,曹杨,陈杰,王一丰	发明	独立完成
80	一种动叶片叶根平台减振承压阻尼结构	ZL201510391544X	中国	张荻,赵伟,袁瑞山,谢永慧	发明	独立完成
81	一种替代 R502 的混合制冷剂及其	ZL2014104554158	中国	赵小明、吕二立	发明	独立完成

	制备方法和应用					
82	一种替代 HCFC-22 的混合制冷剂及其制备方法和应用	ZL201410456221X	中国	赵小明、吕二立	发明	独立完成
83	一种替代 HCFC-22 的混合制冷剂及其制备方法和应用	ZL2014104556007	中国	赵小明、吕二立	发明	独立完成
84	一种替代 HCFC-22 的混合制冷剂及其制备方法和应用	ZL2014104555998	中国	赵小明、吕二立	发明	独立完成
85	一种封闭式高效蒸发-冷凝即热式热水器	ZL2015102502115	中国	王秋旺、苏博渊、宋鹤群、刘璐园、刘妍杉	发明	独立完成
86	一种芯片冷却系统	ZL2015102095316	中国	陈磊、郭磊、郭鼎、洪超、韩颖、张佳琪、	发明	独立完成
87	一种地热、燃气以及超临界二氧化碳联合发电系统	ZL2015101320181	中国	张荻、陈会勇、谢永慧	发明	独立完成
88	一种定形相变材料相变函数测量方法	ZL2013101998699	中国	王晓非、宋博	发明	独立完成
89	一种用于烟气余热回收的自清灰换热器及采用该换热器的自清灰方法	ZL201610209675.6	中国	何雅玲 汤松臻 陶文铨 王飞龙 王睿	发明	独立完成
90	一种可快速降温的飞行器地面热模拟试验装置	ZL201510820839.4	中国	何雅玲 文哲希 严超 曹学伟	发明	独立完成
91	一种废气余热回收换热器	ZL201610340116.9	中国	陶文铨 田恩 金宇 冀文涛 何雅玲	发明	独立完成
92	一种具有侧向抽气槽及球窝的透平叶片尾缘冷却结构	ZL2016105462650	中国	谢永慧,施东波,张荻	发明	独立完成
93	一种适应大变工况范围的柔性静叶装置	ZL2016103692342	中国	谢永慧;高科科;张荻	发明	独立完成

94	一种降低扰流损失的拉筋结构	ZL201610125061X	中国	谢永慧;高科科;张荻	发明	独立完成
95	带端面齿的燃气轮机拉杆转子高速动平衡能力优化设计方法	ZL2016100692815	中国	袁奇,刘洋,陈谦,王梦瑶	发明	独立完成
96	利用振荡翼型的摇摆-扭转耦合运动采集流体动能的发电装置	ZL2015107423158	中国	谢永慧,姜伟,张荻,吕坤	发明	独立完成
97	汽轮机叶片材料及强化涂层抗冲刷和腐蚀性能试验系统	ZL201410816601X	中国	谢永慧、刘天源、赵鹏飞、张荻	发明	独立完成
98	一种阻尼结构优化叶片测试实验台及其实验方法	ZL2014107289898	中国	谢永慧、袁瑞山、张哲源、张荻	发明	独立完成
99	轮盘间平面接触的燃气轮机拉杆转子预紧力设计校核方法	ZL2014101785201	中国	袁奇、刘昕、刘洋	发明	独立完成
100	一种测量流动湿蒸汽湿度、压力和速度的传感器及方法	ZL2015101010575	中国	李亮、吴昕	发明	独立完成
101	一种测量湿蒸汽湿度的装置及方法	ZL2015100262776	中国	高铁瑜、徐佳敏、刘昌伟、李军、李国君、栾海峰	发明	独立完成
102	一种风管式 CO2 空调热泵机组	ZL2016106820130	中国	曹锋;崔靖;金磊	发明	独立完成
103	一种喷水螺杆蒸汽压缩机	ZL2016104545798	中国	田雅芬;沈九兵;王闯;邢子文	发明	独立完成
104	一种旋风分离器	ZL2016102726905	中国	冯健美,畅云峰,刘碧媛,夏宗飞,祁政	发明	独立完成
105	一种便于测量端面间隙及调整转子间间隙的罗茨真空泵	ZL2016101650735	中国	贾晓晗,孙属恺,张卫星,彭学院	发明	独立完成
106	一种跨临界 CO2 热泵最优压力的控制方法	ZL2016101411876	中国	曹锋,殷翔,杨东方	发明	独立完成
107	一种 CO ₂	ZL2016101445177	中国	曹锋,乔亦圆,宋昱龙	发明	独立完成

	跨临界复叠热泵系统及其级间压缩机容量配比方法					
108	一种两相分离器	ZL2016100083677	中国	冯健美,刘碧媛,王玲子,彭学院	发明	独立完成
109	一种双螺杆真空泵转子型线	ZL2015106794339	中国	郭蓓,陈晓乐,拓金梁,卢阳,耿茂飞	发明	独立完成
110	一种暖气片供暖用跨临界CO ₂ 热泵系统	ZL2015103644575	中国	曹锋;杨东方;金磊;殷翔;何永宁	发明	独立完成
111	一种CO ₂ 高温热泵系统	ZL2015100029358	中国	曹锋、何永宁、金磊、邢子文	发明	独立完成
112	一种双螺杆压缩机滑动轴承	ZL2014101199169	中国	邢子文、杨永才、李星星、赵兆瑞	发明	独立完成
113	一种具有中间抽气功能的双螺杆压缩机及多温区热泵系统	ZL2015102571721	中国	田雅芬、高磊、赵兆瑞、邢子文	发明	独立完成
114	一种两级压缩热泵热水器系统及其工作方法	ZL201510207791.X	中国	吴建华 林杰	发明	独立完成
115	一种用于空调制冷系统的微通道回热器	ZL201610177692.6	中国	吴建华 林杰 雷源 张泽	发明	独立完成
116	带气液分离功能的回热器及使用该回热器的制冷空调系统	ZL201610176143.7	中国	吴建华 林杰 张泽	发明	独立完成
117	一种高压大电流真空断路器散热结构	ZL201510818740.0	中国	余小玲 高兵 刘志远 马慧 李鹏	发明	独立完成

注：(1) 国内外同内容的专利不得重复统计。(2) 专利：批准的发明专利，以证书为准。(3) 完成人：所有完成人，排序以证书为准。(4) 类型：其它等同于发明专利的成果，如新药、软件、标准、规范等，在类型栏中标明。(5) 类别：分四种，独立完成、合作完成—第一人、合作完成—第二人、合作完成—其它。

如果成果全部由示范中心固定人员完成的则为独立完成。如果成果由示范中心与其它单位合作完成，第一完成人是示范中心固定人员则为合作完成—第一人；第二完成人是示范中心固定人员则为合作完成—第二人，第三及以后完成人是示范中心固定人员则为合作完成—其它。

2.发表论文、专著情况（仅列出国际期刊 SCI 和 Ei 收录论文）

序号	论文或专著名称	作者	刊物、出版社名称	卷、期（或章节）、页	类型	类别
1	A 1D model to predict ejector performance at critical and sub-critical operational regimes (vol 36, pg 1750, 2013)	Chen, Weixiong; Liu, Ming; Chong, Daotong; Yan, Junjie; Little, Adrienne Blair; Bartosiewicz, Yann	INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID	75	国外刊物	
2	A 3rd-order polynomial temperature profile model for the heating and evaporation of moving droplets	Zhou, Zhi-Fu; Li, Wei Yu; Chen, Bin; Wang, Guo-Xiang	APPLIED THERMAL ENGINEERING	110	国外刊物	
3	A bifunctional NiCoP-based core/shell cocatalyst to promote separate photocatalytic hydrogen and oxygen generation over graphitic carbon nitride	Qin, Zhixiao; Chen, Yubin; Huang, Zhenxiong; Su, Jinzhan; Guo, Liejin	JOURNAL OF MATERIALS CHEMISTRY A	5	国外刊物	
4	A bisection-sampling-based support vector regression-high-dimensional model representation metamodeling technique for high-dimensional problems	Ju, Yaping; Parks, Geoff; Zhang, Chuhua	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL	231	国外刊物	

			OF MECHANICAL ENGINEERING SCIENCE			
5	A combined GCMC and LBM simulation method for CH ₄ capture in Cu-BTC particle adsorption bed	Wang, H; Qu, Z G; Zhou, L	INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	88	国外 刊物	
6	A comprehensive model for analysis of real-time optical performance of a solar power tower with a multi-tube cavity receiver	Qiu, Yu; He, Ya-Ling; Li, Peiwen; Du, Bao-Cun	APPLIED ENERGY	185	国外 刊物	
7	A correlation of nanofluid flow boiling heat transfer based on the experimental results of AlN/H ₂ O and Al ₂ O ₃ /H ₂ O nanofluid	Wang, Y; Deng, K H; Liu, B; Wu, J M; Su, G H	EXPERIMENTAL THERMAL AND FLUID SCIENCE	80	国外 刊物	
8	A Depletion System Compression Method Based on Quantitative Significance Analysis	Li, Yunzhao; Huang, Kai; Wu, Hongchun; Cao, Liangzhi	NUCLEAR SCIENCE AND ENGINEERING	187	国外 刊物	
9	A fast iterative scheme for the linearized Boltzmann equation	Wu, Lei; Zhang, Jun; Liu, Haihu; Zhang, Yonghao; Reese, Jason M	JOURNAL OF COMPUTATIONAL PHYSICS	338	国外 刊物	
10	A forced convection heat transfer correlation of rarefied gases cross-flowing over a circular cylinder	Xie, Fushou; Li, Yanzhong; Liu, Zhan; Wang, Xinbao; Wang, Lei	EXPERIMENTAL THERMAL AND FLUID SCIENCE	80	国外 刊物	

11	A fully disposable and integrated paper-based device for nucleic acid extraction, amplification and detection	Tang, Ruihua; Yang, Hui; Gong, Yan; You, MinLi; Liu, Zhi; Choi, Jane Ru; Wen, Ting; Qu, Zhiguo; Mei, Qibing; Xu, Feng	LAB ON A CHIP	17	国外刊物	
12	A general strategy to synthesis Mg-Ti-O nanofibers by sol-gel assisted electrospinning	Yang, Guorui; Wang, Ling; Wang, Jianan; Yan, Wei	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	81	国外刊物	
13	A highly active biomass-derived electrode for all vanadium redox flow batteries	Zhang, Z H; Zhao, T S; Bai, B F; Zeng, L; Wei, L	ELECTROCHIMICA ACTA	248	国外刊物	
14	A high-performance mesoporous carbon supported nitrogen-doped carbon electrocatalyst for oxygen reduction reaction	Xu, Jingjing; Lu, Shiyao; Chen, Xu; Wang, Jianan; Zhang, Bo; Zhang, Xinyu; Xiao, Chunhui; Ding, Shuijiang	NANOTECHNOLOGY	28	国外刊物	
15	A lattice Boltzmann method for axisymmetric thermocapillary flows	Liu, Haihu; Wu, Lei; Ba, Yan; Xi, Guang	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	104	国外刊物	
16	A mathematical model for flow maldistribution study in a parallel plate-fin heat exchanger	Yang, Huizhu; Wen, Jian; Gu, Xin; Liu, Yuce; Wang, Simin; Cai, Wenjian; Li, Yanzhong	APPLIED THERMAL ENGINEERING	121	国外刊物	
17	A microscopic investigation of ion and electron transport in lithium-ion battery	Jiang, Z Y; Qu, Z G; Zhou, L; Tao, W Q	APPLIED ENERGY	194	国外刊物	

	porous electrodes using the lattice Boltzmann method					
18	A modified double distribution lattice Boltzmann model for axisymmetric thermal flow	Wang, Zuo; Liu, Yan; Wang, Heng; Zhang, Jiazhong	PHYSICS LETTERS A	381	国外刊物	
19	A modified lattice Bhatnagar-Gross-Krook model for axisymmetric thermal flow	Wang, Zuo; Dang, Nannan; Zhang, Jiazhong	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	108	国外刊物	
20	A moving particle semi-implicit method for free surface flow: Improvement in inter-particle force stabilization and consistency restoring	Xiang, Hao; Chen, Bin	INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS	84	国外刊物	
21	A Multilevel Finite Element Variational Multiscale Method for Incompressible Navier-Stokes Equations Based on Two Local Gauss Integrations	Zhang, Yamiao; Huang, Biwu; Zhang, Jiazhong; Zhang, Zexia	MATHEMATICAL PROBLEMS IN ENGINEERING		国外刊物	
22	A multiphase MPS solver for modeling multi-fluid interaction with free surface and its application in oil spill	Duan, Guangtao; Chen, Bin; Zhang, Ximin; Wang, Yechun	COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING	320	国外刊物	
23	A new quantitative measurement method for mixing and segregation of binary-mixture fluidized bed by capacitance probe	Huang, Jikai; Lu, Youjun; Wang, Hao	CHEMICAL ENGINEERING JOURNAL	326	国外刊物	

24	A new unidentified leak detection method based on the EVR ventilation condensate	Tian, Maolin; Cong, Tenglong; Ma, Zhenhui; Chen, Ronghua; Tian, Wenxi; Qiu, Suizheng; Su, G H	PROGRESS IN NUCLEAR ENERGY	98	国外 刊物	
25	A novel experimental facility for measuring internal flow of Solid-liquid two-phase flow in a centrifugal pump by PIV	Shi, Baocheng; Wei, Jinjia; Zhang, Yan	INTERNATIO NAL JOURNAL OF MULTIPHASE FLOW	89	国外 刊物	
26	A novel hybrid artificial photosynthesis system using MoS2 embedded in carbon nanofibers as electron relay and hydrogen evolution catalyst	Niu, Fujun; Dong, Chung-Li; Zhu, Changbao; Huang, Yu-Cheng; Wang, Miao; Maier, Joachim; Yu, Yan; Shen, Shaohua	JOURNAL OF CATALYSIS	352	国外 刊物	
27	A novel tool-path generation method for five-axis flank machining of centrifugal impeller with arbitrary surface blades	Fan, Hong-Zhou; Wang, Shang-Jin; Xi, Guang; Cao, Yan-Long	PROCEEDIN GS OF THE INSTITUTION OF MECHANICA L ENGINEERS PART B-JOURNAL OF ENGINEERIN G MANUFACTU RE	231	国外 刊物	
28	A numerical investigation of the effect of flue gas recirculation on the evolution of ultra-fine ash particles during pulverized coal char	Niu, Yanqing; Liu, Xing; Wang, Shuai; Hui, Shi'en; Shaddix, Christopher R	COMBUSTIO N AND FLAME	184	国外 刊物	

	combustion					
29	A physically consistent FVM interpolation scheme based on the discretized convection-diffusion equation	You, Wei; Li, Zeng-Yao; Tao, Wen-Quan	NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS	71	国外刊物	
30	A POD-Galerkin reduced-order model for isotropic viscoelastic turbulent flow	Chen, Jingjing; Han, Dongxu; Yu, Bo; Sun, Dongliang; Wei, Jinjia	INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	84	国外刊物	
31	A quantitative evaluation of pleural effusion on computed tomography scans using B-spline and local clustering level set	Song, Lei; Gao, Jungang; Wang, Sheng; Hu, Huasi; Guo, Youmin	NUCLEAR SCIENCE AND ENGINEERING	186	国外刊物	
32	A Simple Iterative Method for Compensating the Response Delay of a Self-Powered Neutron Detector	Zhang, Qingmin; Hu, Zhigang; Deng, Bangjie; Xu, Mengxuan; Guo, Yuhang	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	56	国外刊物	
33	A Sodium-Ion-Conducting Direct Formate Fuel Cell: Generating Electricity and Producing Base	Li, Yinshi; Feng, Ying; Sun, Xianda; He, Yaling	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY	231	国外刊物	
34	A study on air-cooling waste heat recovery from molten slag of	Deng, Lei; Tang, Chunli; Tan, Xiaowen;	JOURNAL OF THE ENERGY	90	国外刊物	

	slag-tap boilers	Sun, Ke; Wu, Song; Che, Defu	INSTITUTE			
35	A study on deactivation of V2O5-WO3-TiO2 SCR catalyst by alkali metals during entrained-flow combustion	Deng, Lei; Liu, Xuan; Cao, Peiqing; Zhao, Yonggang; Du, Yongbo; Wang, Chang'an; Che, Defu	APPLIED THERMAL ENGINEERING	121	国外刊物	
36	A study on the adaptability of cyclone barrel to slag film in a cyclone-fired boiler	Wu, Song; Deng, Lei; Wang, Chang'an; Tang, Chunli; Bu, Yufan; Che, Defu	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	108	国外刊物	
37	A theoretical and numerical study on the gas-contributed thermal conductivity in aerogel	Li, Zeng-Yao; Zhu, Chuan-Yong; Zhao, Xin-Peng	JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY	31	国外刊物	
38	A thermal design method for the performance optimization of multi-stream plate-fin heat exchangers	Wang, Zhe; Han, Fenghui; Sunden, Bengt; Li, Yanzhong	NUCLEAR ENGINEERING AND DESIGN	320	国外刊物	
39	A thermoelectric generator based efficiency booster for performance enhancement of natural circulation systems	Wang, Dongqing; Jiang, Jin; Liu, Yu	INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	85	国外刊物	
40	A two-dimensional simulation method of the solar chimney power plant with a new radiation model for the collector	Huang, Ming-Hua; Chen, Lei; He, Ya-Ling; Cao, Jun-Ji; Tao, Wen-Quan	FUEL	209	国外刊物	

41	Ab initio calculation and kinetic modeling study of diethyl ether ignition with application toward a skeletal mechanism for CI engine modeling	Hu, Erjiang; Chen, Yulin; Zhang, Zihang; Chen, Jyh-Yuan; Huang, Zuohua	MICROFLUIDICS AND NANOFUIDICS	21	国外刊物	
42	Acoustofluidic waveguides for localized control of acoustic wavefront in microfluidics	Bian, Yusheng; Guo, Feng; Yang, Shujie; Mao, Zhangming; Bachman, Hunter; Tang, Shi-Yang; Ren, Liqiang; Zhang, Bin; Gong, Jianying; Guo, Xiasheng; Huang, Tony Jun	CHEMICAL ENGINEERING JOURNAL	316	国外刊物	
43	Adsorption mechanism of phosphate by polyaniline/TiO ₂ composite from wastewater	Wang, Ning; Feng, Jiangtao; Chen, Jie; Wang, Jianan; Yan, Wei	APPLIED ENERGY	205	国外刊物	
44	Aiming strategy optimization for uniform flux distribution in the receiver of a linear Fresnel solar reflector using a multi-objective genetic algorithm	Qiu, Yu; Li, Ming-Jia; Wang, Kun; Liu, Zhan-Bin; Xue, Xiao-Dai	JOURNAL OF POWER SOURCES	365	国外刊物	
45	Alkaline anion exchange membrane fuel cells for cogeneration of electricity and valuable chemicals	Pan, Z F; Chen, R; An, L; Li, Y S	FUEL	210	国外刊物	
46	An analytical model for shale gas transport in kerogen nanopores coupled with real gas effect and surface diffusion	Yin, Y; Qu, Z G; Zhang, J F	ANNALS OF NUCLEAR ENERGY	110	国外刊物	

47	An assessment of heat transfer models of water flow in helically coiled tubes based on selected experimental datasets	Gou, Junli; Ma, Haifu; Yang, Zijiang; Shan, Jianqiang	ELECTROCHIMICA ACTA	245	国外刊物	
48	An effective self-driven PFC-PEC hybrid system for hydrogen generation from organic substance	Liu, Xiao-He; Du, Fan; Chen, Qing-Yun; Wang, Yun-Hai	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	41	国外刊物	
49	An ejector-enhanced re-liquefaction process (EERP) for liquid ethylene vessels	Tan, Hongbo; Sun, Nannan; Zhao, Qingxuan; Li, Yanzhong	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	108	国外刊物	
50	An enthalpy method based on fixed-grid for quasi-steady modeling of solidification/melting processes of pure materials	Wu, Ming; Liu, Lijun; Ding, Junling	NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS	72	国外刊物	
51	An example for the effect of round-off errors on numerical heat transfer	Mou, Shan-Cong; Luan, Yu-Xuan; Ji, Wen-Tao; Zhang, Jian-Fei; Tao, Wen-Quan	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING	231	国外刊物	
52	An experimental investigation of the oil film distribution in an oil-gas cyclone separator	Wang, Lingzi; Feng, Jianmei; Xu, Shijing; Gao, Xiang; Peng, Xueyuan	INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	82	国外刊物	

53	An experimental study of the effect of air quality on frosting on cold flat surface	Gong, Jianying; Sun, Jinjuan; Li, Guojun	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	111	国外刊物	
54	An improved modeling on convection heat transfer of supercritical fluids for several advanced energy systems	Li, Hongzhi; Zhang, Yifan; Yao, Mingyu; Wang, Yueming; Wang, Haijun; Yang, Yu; Gao, Wei	JOURNAL OF INSTRUMENTATION	12	国外刊物	
55	An improved underground cosmic-ray detector made of RPCs	Zhang, Qingmin; Lv, Zhipeng; Deng, Bangjie; Zhang, Jiawen; Qian, Sen; Xu, Jilei	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	114	国外刊物	
56	An integral MPS model of blood coagulation by laser irradiation: Application to the optimization of multi-pulse Nd:YAG laser treatment of port-wine stains	Xiang, Hao; Chen, Bin; Wu, WenJuan; Zhang, Yong; Jia, Hao	CHINESE PHYSICS B	26	国外刊物	
57	An investigation of ionizing radiation damage in different SiGe processes	Li, Pei; Liu, Mo-Han; He, Chao-Hui; Guo, Hong-Xia; Zhang, Jin-Xin; Ma, Ting	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	113	国外刊物	
58	An numerical investigation on the cooling capacity of needle-ring type electrostatic fluid accelerators for round plate with uniform and non-uniform heat flux	Wang, Shuang; Zhang, Jianfei; Kong, Lingjian; Qu, Zhiguo; Tao, Wenquan	ENERGY CONVERSION AND MANAGEMENT	142	国外刊物	

59	An optimal multivariable controller for trans critical CO2 refrigeration cycle with an adjustable ejector	He, Yang; Deng, Jianqiang; Yang, Fusheng; Zhang, Zaoxiao	INTERNATIO NAL JOURNAL OF HEAT AND MASS TRANSFER	107	国外 刊物	
60	Analysis and numerical tests of lifting relations to reconstruct LBM distribution functions for coupling simulations	Tong, Zi-Xiang; Li, Ming-Jia; He, Ya-Ling; Tao, Wen-Quan	JOURNAL OF VIBRATION AND ACOUSTICS- TRANSACTIONS OF THE ASME	139	国外 刊物	
61	Analysis of Curved Panel Flutter in Supersonic and Transonic Airflows Using a Fluid-Structure Coupling Algorithm	Mei, Guanhua; Zhang, Jiazhong; Kang, Can	INTERNATIO NAL JOURNAL OF MULTIPHASE FLOW	88	国外 刊物	
62	Analysis of interphase forces and investigation of their effect on particle transverse motion in particle-laden channel turbulence	Li, Zhenzhong; Wei, Jinjia; Yu, Bo	ANNALS OF NUCLEAR ENERGY	105	国外 刊物	
63	Analysis of loss of residual heat removal system for CPR1000 under cold shutdown operation	Gou, Junli; Ma, Haifu; Yang, Zijiang; Shan, Jianqiang	CHEMICAL ENGINEERING SCIENCE	162	国外 刊物	
64	Analysis of powder rheometry of FT4: Effect of air flow	Nan, Wenguang; Ghadiri, Mojtaba; Wang, Yueshe	CHEMICAL ENGINEERING SCIENCE	173	国外 刊物	
65	Analysis of powder rheometry of FT4: Effect of particle shape	Nan, Wenguang; Ghadiri, Mojtaba; Wang, Yueshe	NUCLEAR SCIENCE AND TECHNIQUES	28	国外 刊物	
66	Analysis of SBLOCA on CPR1000 with a passive system	Yang, Zi-Jiang; Gou, Jun-Li; Shan, Jian-Qiang; Wu, Pan	PROGRESS IN NUCLEAR ENERGY	100	国外 刊物	

67	Analysis of the dynamic pressure from ex-vessel steam explosion for pressurized water reactor	Chen, Ronghua; Li, Chenxi; Wang, Jun; Su, G H; Qiu, Suizheng; Corradini, M L	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	28	国外刊物	
68	Application of a niching genetic algorithm to the optimization of a SiC crystal growth system	Chen, Xuejiang; Su, Juan; Li, Yuan	BIOMED RESEARCH INTERNATIONAL		国外刊物	
69	Application of Biotechnology for the Production of Biomass-Based Fuels	Zhu, Liandong; Gao, Ningbo; Cong, Rong-Gang	APPLIED THERMAL ENGINEERING	127	国外刊物	
70	Application of response surface methodology and desirability approach to investigate and optimize the jet pump in a thermoacoustic Stirling heat engine	Yang, Peng; Chen, Hui; Liu, Ying-wen	NUCLEAR ENGINEERING AND DESIGN	320	国外刊物	
71	Application of the virtual density theory in fast reactor analysis based on the neutron transport calculation	Zheng, Youqi; Xiao, Yunlong; Wu, Hongchun	COMBUSTION AND FLAME	182	国外刊物	
72	Assessing the predictions of a NOx kinetic mechanism on recent hydrogen and syngas experimental data	Zhang, Yingjia; Mathieu, Olivier; Petersen, Eric L; Bourque, Gilles; Curran, Henry J	ENERGY	138	国外刊物	
73	Assessment of off-design performance of a Kalina cycle driven by low-grade heat source	Wang, Jianyong; Wang, Jiangfeng; Dai, Yiping; Zhao, Pan	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	41	国外刊物	

74	Assessment of transient characteristics of fast reactors and influences of minor actinides using neutron transport method	He, Mingtao; Zheng, Youqi; Wu, Hongchun; Li, Zhuo; Du, Xianan	ADVANCED FUNCTIONAL MATERIALS	27	国外 刊物	
75	Atomic-Scale CoOx Species in Metal-Organic Frameworks for Oxygen Evolution Reaction	Dou, Shuo; Dong, Chung-Li; Hu, Zhe; Huang, Yu-Cheng; Chen, Jeng-Lung; Tao, Li; Yan, Dafeng; Chen, Dawei; Shen, Shaohua; Chou, Shulei; Wang, Shuangyin	INTERNATIO NAL JOURNAL OF HEAT AND MASS TRANSFER	108	国外 刊物	
76	Atomistic-continuum hybrid simulations for compressible gas flow in a parallel nanochannel	Zhou, Wen-Jing; Yu, Zhi-Qiang; Li, Zhong-Zhen; Wei, Jin-Jia; Tao, Wen-Quan	JOURNAL OF INSTRUMEN TATION	12	国外 刊物	

77	Back-n white neutron facility for nuclear data measurements at CSNS	An, Q; Bai, H Y; Bao, J; Cao, P; Chen, Y; Chen, Y L; Cheng, P J; Fan, R R; Feng, C Q; Gu, J; Gu, M H; He, B; He, G Z; He, W; He, Y C; He, Y F; Huang, H X; Huang, X R; Huang, W L; Ji, X L; Ji, X Y; Jing, H T; Li, B; Li, C B; Li, G; Li, Q; Li, Y; Liu, R; Liu, S B; Luan, G Y; Ma, Y L; Peng, M; Ning, C J; Qi, X C; Ren, J; Ruan, X C; Shi, B; Song, Z H; Su, X B; Sun, Z J; Tang, H Q; Tang, J Y; Tan, Z X; Wang, P C; Wang, Q; Wang, Q; Wang, Yan F; Wang, Z H; Wen, J; Wen, Z W; Wu, Q B; Wu, X G; Yang, Y W; Yu, T; Yu, Y J; Zhang, D L; Zhang, G H; Zhang, H Y; Zhang, J; Zhang, L Y; Zhang, Q W; Zhang, X P; Zhang, Y X; Zhao, Y T;	INTERNATIO NAL JOURNAL OF HYDROGEN ENERGY	42	国外 刊物	
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78	<p>Bio-oil production from hydrothermal liquefaction of waste Cyanophyta biomass: Influence of process variables and their interactions on the product distributions</p>	<p>Song, Wenhan; Wang, Shuzhong; Guo, Yang; Xu, Donghai</p>	<p>WATER ENVIRONME NT RESEARCH</p>	89	国外刊物	
79	<p>Biotransformation of RDX and HMX by Anaerobic Granular Sludge with Enriched Sulfate and Nitrate</p>	<p>An, Chunjiang; Shi, Yarong; He, Yanling; Huang, Guohe; Liu, Yonghong; Yang, Shucheng</p>	<p>JOURNAL OF COMPUTATI ONAL PHYSICS</p>	351	国外刊物	
80	<p>Block-diagonalization of the variational nodal response matrix using the symmetry group theory</p>	<p>Li, Zhipeng; Wu, Hongchun; Li, Yunzhao; Cao, Liangzhi</p>	<p>JOURNAL OF MATERIALS CHEMISTRY A</p>	5	国外刊物	

81	Bronsted base site engineering of graphitic carbon nitride for enhanced photocatalytic activity	Wang, Xue Lu; Fang, Wen Qi; Liu, Wenqing; Jia, Yi; Jing, Dengwei; Wang, Yun; Yang, Ling-Yun; Gong, Xue-Qing; Yao, Ye-Feng; Yang, Hua Gui; Yao, Xiangdong	JOURNAL OF ALLOYS AND COMPOUND S	693	国外 刊物	
82	C@CoFe ₂ O ₄ fiber-in-tube mesoporous nanostructure: Formation mechanism and high electrochemical performance as an anode for lithium-ion batteries	Wang, Jianan; Yang, Guorui; Wang, Ling; Yan, Wei; Wei, Wei	CHEMICAL ENGINEERING SCIENCE	172	国外 刊物	
83	Capsule equilibrium positions near channel center in Poiseuille flow	He, Long; Luo, Zhengyuan; Liu, W Robert; Bai, Bofeng	ELECTROCH IMICA ACTA	245	国外 刊物	
84	Cations Diffusion in Nafion117 Membrane of Microbial fuel cells	Huang, Dong; Song, Bing-Ye; He, Ya-Ling; Ren, Qinlong; Yao, Sen	NUMERICAL HEAT TRANSFER PART A-APPLICATIONS	71	国外 刊物	
85	CFD analysis of mist/air film cooling on a flat plate with different hole types	Zhou, Junfei; Wang, Xinjun; Li, Jun; Lu, Haikong	PROGRESS IN NUCLEAR ENERGY	98	国外 刊物	
86	CFD analysis to study the effect of non-condensable gas on stable condensation jet	Zhou, Lun; Wang, Lutao; Chong, Daotong; Yan, Junjie; Liu, Jiping	APPLIED THERMAL ENGINEERING	126	国外 刊物	

87	CFD investigation on combustion and NOx emission characteristics in a 600 MW wall-fired boiler under high temperature and strong reducing atmosphere	Du, Yongbo; Wang, Chang'an; Lv, Qiang; Li, Debo; Liu, Hu; Che, Defu	FUEL	200	国外刊物	
88	Characteristics of biomass fast pyrolysis in a wire-mesh reactor	Zhang, Yanru; Niu, Yanqing; Zou, Hao; Lei, Yu; Zheng, Jiang; Zhuang, Huiyong; Hui, Shien	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	56	国外刊物	
89	Characteristics of Methanol Hydrothermal Combustion: Detailed Chemical Kinetics Coupled with Simple Flow Modeling Study	Ren, Mengmeng; Wang, Shuzhong; Zhang, Jie; Guo, Yang; Xu, Donghai; Wang, Yulong	ATMOSPHERIC ENVIRONMENT	158	国外刊物	
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176	Effects of stator blade camber and surface viscosity on unsteady flow in axial turbine	Gao, Keke; Xie, Yonghui; Zhang, Di	NUMERICAL HEAT TRANSFER PART A-APPLICATI ONS	71	国外 刊物	
177	Effects of surface wettability, roughness and moving wall velocity on the Couette flow in nano-channel using multi-scale hybrid method	Jeong, Myunggeun; Kim, Youngjin; Zhou, Wenjing; Tao, Wen Quan; Ha, Man Yeong	JOURNAL OF ALLOYS AND COMPOUND S	718	国外 刊物	
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189	Enhanced biohydrogen production from cornstalk through a two-step fermentation: Dark fermentation and photofermentation	Zhang, Yang; Li, Qing; Wang, Xueqing; Yang, Honghui; Guo, Liejin	APPLIED THERMAL ENGINEERING	115	国外刊物	
190	Enhanced Photocatalytic Performance toward CO ₂ Hydrogenation over Nanosized TiO ₂ -Loaded Pd under UV Irradiation	Li, Naixu; Liu, Ming; Yang, Bin; Shu, Weixin; Shen, Quanhao; Liu, Maochang; Zhou, Jiancheng	ENERGY & FUELS	31	国外刊物	
191	Enhancement of condensation heat transfer on grooved surfaces: Numerical analysis and experimental study	Qi, Baojin; Wei, Jinjia; Li, Xiang	SMALL	13	国外刊物	
192	Enhancement of Hydrogen Production through a Mixed Culture of Enterobacter cloacae and Rhodobacter sphaeroides	Zhang, Yang; Guo, Liejin; Yang, Honghui	PHYSICAL REVIEW E	96	国外刊物	

193	Enhancing Performance of Large-Area Organic Solar Cells with Thick Film via Ternary Strategy	Zhang, Jianqi; Zhao, Yifan; Fang, Jin; Yuan, Liu; Xia, Benzheng; Wang, Guodong; Wang, Zaiyu; Zhang, Yajie; Ma, Wei; Yan, Wei; Su, Wenming; Wei, Zhixiang	CHEMICAL ENGINEERING SCIENCE	164	国外 刊物	
194	Enthalpy-based multiple-relaxation-time lattice Boltzmann method for solid-liquid phase-change heat transfer in metal foams	Liu, Qing; He, Ya-Ling; Li, Qing	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外 刊物	
195	Entrained droplets in two-phase churn flow	Wang, Ke; Ye, Jing; Bai, Bofeng	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	106	国外 刊物	
196	Entropy generation and Carnot efficiency comparisons of high temperature heat transfer fluid candidates for CSP plants	Xu, Xinhai; Guo, Penghua; Liu, Wenrui; Yang, Weikun	ENVIRONMENTAL SCIENCE & TECHNOLOGY	51	国外 刊物	
197	Entropy generation for mixed convection in a square cavity containing a rotating circular cylinder using a local radial basis function method	Wang, Tongsheng; Huang, Zhu; Xi, Guang	APPLIED THERMAL ENGINEERING	123	国外 刊物	
198	Environment-Friendly Carbon Quantum Dots/ZnFe ₂ O ₄ Photocatalysts: Characterization, Biocompatibility, and	Huang, Yu; Liang, Yanling; Rao, Yongfang; Zhu, Dandan; Cao, Jun-ji; Shen,	APPLIED ENERGY	193	国外 刊物	

	Mechanisms for NO Removal	Zhenxing; Ho, Wingkei; Lee, Shun Cheng				
199	Evaluating optimal cooling temperature of a single-stage thermoelectric cooler using thermodynamic second law	Tan, Hongbo; Fu, Hua; Yu, Jianlin	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外刊物	
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201	Evaluation and optimization of tritium breeding, shielding and nuclear heating performances of the helium cooled solid breeder blanket for CFETR	Cui, Shijie; Zhang, Dalin; Lian, Qiang; Cheng, Jie; Tian, Wenxi; Su, G H; Qiu, Suizheng	NUCLEAR SCIENCE AND ENGINEERING	186	国外刊物	
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203	Evaluation of Pin-Cell Homogenization Techniques for PWR Pin-by-Pin Calculation	Zhang, Bin; Wu, Hongchun; Li, Yunzhao; Cao, Liangzhi; Shen, Wei	JOURNAL OF ARID LAND	9	国外刊物	
204	Evaluation of wavy direct absorption solar collector (DASC) performance using different nanofluids	Hatami, M; Jing, D	ENERGY	119	国外刊物	
205	Evolution of crescent-shaped sand dune under the influence of injected sand flux: scaling law and wind tunnel experiment	Zhang, Yang; Wang, Yuan; Zhou, Xiaosi; Yang, Bin	ENERGY CONVERSION AND MANAGEMENT	135	国外刊物	

206	Exergy and exergoeconomic analyses of a supercritical CO ₂ cycle for a cogeneration application	Wang, Xurong; Yang, Yi; Zheng, Ya; Dai, Yiping	PROGRESS IN NUCLEAR ENERGY	96	国外 刊物	
207	Exergy efficiency analysis of ORC (Organic Rankine Cycle) and ORC-based combined cycles driven by low-temperature waste heat	Sun, Wenqiang; Yue, Xiaoyu; Wang, Yanhui	FUEL	195	国外 刊物	
208	Experiment research on thermal mixing in horizontal T-junction: In-pipe temperature and flow characteristic research	Ren, Wuyue; Yu, Guojun; Bian, Jiawei; Liu, Wang; Tian, Wenxi; Su, G H; Qiu, S Z; Wu, Qiao	PROCEEDIN GS OF THE COMBUSTIO N INSTITUTE	36	国外 刊物	
209	Experimental and kinetic modeling study on 2,4,4-trimethyl-1-pentene ignition behind reflected shock waves	Hu, Erjiang; Yin, Geyuan; Gao, Zhenhua; Liu, Yang; Ku, Jinfeng; Huang, Zuohua	INTERNATIO NAL JOURNAL OF HYDROGEN ENERGY	42	国外 刊物	
210	Experimental and kinetic study of pentene isomers and n-pentane in laminar flames	Cheng, Yu; Hu, Erjiang; Lu, Xin; Li, Xiaotian; Gong, Jing; Li, Qianqian; Huang, Zuohua	FUEL	189	国外 刊物	
211	Experimental and kinetic study on ignition delay times of lean n-butane/hydrogen/argon mixtures at elevated pressures	Jiang, Xue; Pan, Youshun; Liu, Yang; Sun, Wuchuan; Huang, Zuohua	INTERNATIO NAL JOURNAL OF HEAT AND MASS TRANSFER	108	国外 刊物	
212	Experimental and modeling study on ignition delay times of dimethoxy methane/n-heptane blends	Hu, Erjiang; Gao, Zhenhua; Liu, Yang; Yin, Geyuan; Huang, Zuohua	INTERNATIO NAL JOURNAL OF HEAT AND MASS TRANSFER	104	国外 刊物	

213	Experimental and numerical analysis of heat transfer to water at supercritical pressures	Shen, Zhi; Yang, Dong; Wang, Siyang; Wang, Wenyu; Li, Yaode	LASERS IN SURGERY AND MEDICINE	49	国外 刊物	
214	Experimental and numerical investigation of heat transfer and friction performance for turbine blade tip cap with combined pin-fin-dimple/protrusion structure	Xie, Yonghui; Shi, Dongbo; Shen, Zhongyang	FUEL	195	国外 刊物	
215	Experimental and Numerical Investigation on the Transient Vascular Thermal Response to Multi-Pulse Nd:YAG Laser	Li, Dong; Li, Ruohui; Jia, Hao; Chen, Bin; Wu, Wenjuan; Ying, Zhaoxia	JOURNAL OF CHEMICAL AND ENGINEERING DATA	62	国外 刊物	
216	Experimental and numerical study on the emission characteristics of laminar premixed biogas-hydrogen impinging flame	Wei, Z L; Zhen, H S; Leung, C W; Cheung, C S; Huang, Z H	APPLIED THERMAL ENGINEERING	125	国外 刊物	
217	Experimental Determination and Modeling of the Solubility of Sodium Chloride in Subcritical Water from (568 to 598) K and (10 to 25) MPa	Ding, Xin; Lei, Yali; Shen, Zhenxing; Yu, Yunsong; Zhou, Qiang; Wei, Jinjia; Fang, Tao	INTERNATIONAL JOURNAL OF REFRIGERATION- REVUE INTERNATIONALE DU FROID	77	国外 刊物	
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219	Experimental investigation of startup characteristics of R290 rotary compressor under low ambient temperature	Lin, Jie; Wu, Jianhua; Zhang, Ze; Chen, Zhenhua; Xie,	APPLIED THERMAL ENGINEERING	112	国外 刊物	

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222	Experimental investigation on boiling heat transfer of high pressure water in a SCWR sub-channel	Wang, Han; Wang, Weishu; Bi, Qincheng	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	115	国外刊物	
223	Experimental investigation on overall performance of a millimeter-scale radial turbine for micro gas turbine	Fu, Lei; Feng, Zhenping; Li, Guojun	EXPERIMENTAL THERMAL AND FLUID SCIENCE	82	国外刊物	
224	Experimental investigation on the driving force and energy conversion in direct contact condensation for steam jet	Qiu, Binbin; Liu, Jia; Yan, Junjie; Chong, Daotong; Wu, Xinzhuang	EXPERIMENTAL THERMAL AND FLUID SCIENCE	88	国外刊物	
225	Experimental investigation on the mechanism of pressure oscillation for steam jet in stable condensation region	Qiu, Binbin; Yan, Junjie; Chong, Daotong; Revankar, Shripad T	LASERS IN MEDICAL SCIENCE	32	国外刊物	
226	Experimental investigation on the propagation characteristics of pressure oscillation in	Qiu, Binbin; Yang, Qingchuan; Yan, Junjie; Li, Gen; Revankar,	PROGRESS IN NUCLEAR ENERGY	98	国外刊物	

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229	Experimental investigation on thermal-hydraulic characteristics of endothermic hydrocarbon fuel in 1 mm and 2 mm diameter mini-channels	Guo, Yong; Bi, Qincheng; Liu, Zhaohui; Yang, Zhuqiang; Jiang, Lei	EXPERIMENTAL THERMAL AND FLUID SCIENCE	81	国外刊物	
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231	Experimental investigation on two-phase flow instabilities of ultra supercritical pressure boiler with spirally water wall tubes	Wang, Wenyu; Yang, Dong; Liu, Wanyu; Nie, Xin; Wang, Siyang; Bi, Qincheng	EXPERIMENTAL THERMAL AND FLUID SCIENCE	80	国外刊物	
232	Experimental investigations of R134a and R123 falling film evaporation on enhanced horizontal	Zhao, Chuang-Yao; Jin, Pu-Hang; Ji, Wen-Tao; He, Ya-Ling;	JOURNAL OF CHEMICAL AND ENGINEERING DATA	62	国外刊物	

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233	Experimental investigations on single-phase convection and steam-water two-phase flow boiling in a vertical rod bundle	Zhang, K; Hou, Y D; Tian, W X; Fan, Y Q; Su, G H; Qiu, S Z	EXPERIMENTAL THERMAL AND FLUID SCIENCE	89	国外刊物	
234	Experimental Measurement of JP-10 Viscosity at 242.7-753.3 K under Pressures up to 6.00 MPa	Gong, Siyuan; Zhang, Xiangwen; Bi, Qincheng; Liu, Zhaohui; Liu, Guozhu	EXPERIMENTS IN FLUIDS	58	国外刊物	
235	Experimental research on liquid-vapor two-phase flow separation of zeotropic mixtures at an impacting T-junction	Zheng, Nan; Zhao, Li; Wei, Jinjia	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外刊物	
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237	Experimental studies on the poisoning properties of a low-plateau hydrogen storage alloy LaNi _{4.3} Al _{0.7} against CO impurities	Yang, F S; Chen, X Y; Wu, Z; Wang, S M; Wang, G X; Zhang, Z X; Wang, Y Q	INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID	75	国外刊物	
238	Experimental study of positive and negative DC electric fields in lean premixed spherically expanding flames	Li, Chao; Wu, Xiaomin; Li, Yiming; Wei, Xuxing	APPLIED THERMAL ENGINEERING	113	国外刊物	

239	Experimental study of the axial force on the rotors in a twin-screw refrigeration compressor	Hou, Feng; Zhao, Zhaorui; Yu, Zhiqiang; Xing, Ziwen	POWDER TECHNOLOG Y	318	国外 刊物	
240	Experimental study of the effect of a radiant tube on the temperature distribution in a horizontal heating furnace	Xu, H T; Liao, X W; Qu, Z G; Li, Y Z; Chen, J	ADVANCES IN MECHANICA L ENGINEERIN G	9	国外 刊物	
241	Experimental study on adsorption of potassium vapor in flue gas by coal ash	Liu, Yinhe; Duan, Xiaoli; Cao, Xiu; Che, Defu; Liu, Ke	INTERNATIO NAL JOURNAL OF HEAT AND MASS TRANSFER	108	国外 刊物	
242	Experimental study on bladeless turbine using incompressible working medium	Li, Ruixiong; Wang, Huanran; Yao, Erren; Li, Meng; Nan, Weigang	APPLIED THERMAL ENGINEERIN G	113	国外 刊物	
243	Experimental study on condensation of high-pressure steam in a horizontal tube with pool boiling outside	Nie, Zesen; Bi, Qincheng; Lei, Shiyi; Lv, Haicai; Guo, Yajun	APPLIED THERMAL ENGINEERIN G	115	国外 刊物	
244	Experimental study on cooling performance of multiple impinging jets with different nozzle arrangements in a ground fast cooling simulation device	He, Ya-Ling; Wen, Zhe-Xi	APPLIED THERMAL ENGINEERIN G	120	国外 刊物	
245	Experimental study on corrosion of steels for flue gas reheaters in a coal-fired power plant	Pan, PeiYuan; Chen, Heng; Liang, ZhiYuan; Zhao, QinXin	EXPERIMEN TAL THERMAL AND FLUID SCIENCE	80	国外 刊物	
246	Experimental study on heat transfer characteristics of a condenser in the presence of air	Liu, Guangyao; Wang, Jinshi; Chen, Tengfei; Liu, Jiping; Yan, Junjie	JOURNAL OF DISPERSION SCIENCE AND TECHNOLOG Y	38	国外 刊物	

247	Experimental study on heat transfer characteristics of LN2 saturated flow boiling in a horizontal corrugated tube	Su, Xuemei; Chen, Xingya; Zhang, Qiaoyu; Liu, Xiufang; Chen, Liang; Hou, Yu	ENERGY CONVERSION AND MANAGEMENT	145	国外 刊物	
248	Experimental study on high-pressure rheology of water/crude oil emulsion in the presence of methane	Sun, Le; Yang, Guangwei; Wang, Yechun; Jing, Dengwei	EXPERIMENTAL THERMAL AND FLUID SCIENCE	86	国外 刊物	
249	Experimental study on hydrogen production by lignite gasification in supercritical water fluidized bed reactor using external recycle of liquid residual	Jin, Hui; Fan, Chao; Guo, Liejin; Liu, Shanke; Cao, Changqing; Wang, Runyu	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	113	国外 刊物	
250	Experimental study on saturated flow boiling heat transfer of nitrogen in a small-diameter horizontal heated tube	Zhang, Qiaoyu; Chen, Jun; Li, Jiapeng; Cao, Jing; Chen, Liang; Hou, Yu	APPLIED THERMAL ENGINEERING	113	国外 刊物	
251	Experimental study on spray flash evaporation under high temperature and pressure	Cai, Benan; Zhang, Qi; Jiang, Yang; Gu, Hongfang; Wang, Haijun	BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING	34	国外 刊物	
252	Experimental study on temperature, heat flux, strain and stress distribution of boiler water walls	Fu, Jiapeng; Wei, Lin; Li, Na; Zhou, Qulan; Liu, Taisheng	FUEL	202	国外 刊物	
253	EXPERIMENTAL STUDY ON THE COLLABORATIVE DRAG REDUCTION PERFORMANCE OF A SURFACTANT SOLUTION IN GROOVED CHANNELS	Huang, Chonghai; Wei, Jinjia	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	114	国外 刊物	

254	Experimental study on the effect of injector nozzle K factor on the spray characteristics in a constant volume chamber: Near nozzle spray initiation, the macroscopic and the droplet statistics	Tang, Chenglong; Feng, Zehao; Zhan, Cheng; Ma, Wen'an; Huang, Zuohua	ENERGIES	10	国外刊物	
255	Experimental study on the interfacial behavior of stable steam jet condensation in a rectangular mix chamber	Zong, Xiao; Liu, Ji-ping; Liu, Jia; Yang, Xiao-ping; Yan, Jun-jie	APPLIED THERMAL ENGINEERING	122	国外刊物	
256	Experimental Study on the Performance of Water Source Trans-Critical CO ₂ Heat Pump Water Heater	Liu, Xiufang; Liu, Changhai; Zhang, Ze; Chen, Liang; Hou, Yu	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	115	国外刊物	
257	Experimental study on the pressure drop characteristics of steam-water two-phase flow at a low mass velocity in a four-head rifled tube	Zhu, Xiaojing; Yang, Zhuqiang; Bi, Qincheng	EXPERIMENTAL THERMAL AND FLUID SCIENCE	83	国外刊物	
258	Experimental study on the relation between internal flow and flashing spray characteristics of R134a using straight tube nozzles	Wang, Xin-Sheng; Chen, Bin; Wang, Rui; Xin, Hui; Zhou, Zhi-Fu	FUEL	188	国外刊物	
259	Experimental study on time-series characteristics in Marangoni condensation for ethanol-water mixtures on a horizontal surface	Li, Yong; Wang, Jinshi; Xia, Kai; Chen, Nana; Yan, Junjie	CERAMICS INTERNATIONAL	43	国外刊物	
260	Explosion characteristics of n-butanol/iso-octane-air mixtures	Hu, Erjiang; Tian, Hongzhen; Zhang, Xinyi;	JOURNAL OF ALLOYS AND COMPOUNDS	691	国外刊物	

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261	Fabrication and formation mechanism of Li ₂ MnO ₃ ultrathin porous nanobelts by electrospinning	Yang, Guorui; Wang, Ling; Wang, Jianan; Yan, Wei	SYNTHETIC METALS	226	国外刊物	
262	Fabrication of Cd _{0.5} Zn _{0.5} S nanoparticles decorated TiO ₂ nanotube arrays electrode and its enhanced photoelectrocatalytic performance	Wu, Jia; Xu, Hao; Yan, Wei	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外刊物	
263	Fabrication of electroactive liquid core-TANI shell microcapsules by self-assembly on Pickering emulsion surfaces	Lyu, Wei; Yu, Mengting; Feng, Jiangtao; Yan, Wei	JOURNAL OF MATERIALS SCIENCE	52	国外刊物	
264	Fabrication of MgTiO ₃ nanofibers by electrospinning and their photocatalytic water splitting activity	Wang, Ling; Yang, Guorui; Peng, Shengjie; Wang, Jianan; Ji, Dongxiao; Yan, Wei; Ramakrishna, Seeram	JOURNAL OF CHEMICAL AND ENGINEERING DATA	62	国外刊物	
265	Fabrication of one-dimensional CdFe ₂ O ₄ yolk/shell flat nanotubes as a high-performance anode for lithium-ion batteries	Wang, Jianan; Yang, Guorui; Wang, Ling; Yan, Wei	INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY	14	国外刊物	

266	Facile Modification of a Polythiophene/TiO ₂ Composite Using Surfactants in an Aqueous Medium for an Enhanced Pb(II) Adsorption and Mechanism Investigation	Chen, Jie; Wang, Ning; Ma, Hongyu; Zhu, Jinwei; Feng, Jiangtao; Yan, Wei	CATALYSIS SCIENCE & TECHNOLOG Y	7	国外 刊物	
267	Facile regeneration and modification of industrial used chelating resin for fuel oil desulfurization	He, C; Xu, B; Chen, S; Zhao, J	CHEMICAL ENGINEERIN G SCIENCE	165	国外 刊物	
268	Facile synthesis of CuSO ₄ /TiO ₂ catalysts with superior activity and SO ₂ tolerance for NH ₃ -SCR: physicochemical properties and reaction mechanism	Yu, Yanke; Miao, Jifa; Wang, Jinxiu; He, Chi; Chen, Jinsheng	NUCLEAR INSTRUMEN TS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELE RATORS SPECTROM ETERS DETECTORS AND ASSOCIATE D EQUIPMENT	870	国外 刊物	
269	Fast mass transport across two-dimensional graphene nanopores: Nonlinear pressure-dependent gas permeation flux	Sun, Chengzhen; Bai, Bofeng	INTERNATIO NAL JOURNAL OF MULTIPHASE FLOW	88	国外 刊物	
270	Fast neutron transmission imaging of the interior of large-scale concrete structures using a newly developed pixel-type detector	Seki, Yoshichika; Taketani, Atsushi; Hashiguchi, Takao; Wang, Sheng; Mizuta, Maki; Wakabayashi, Yasuo; Otake,	FUEL	208	国外 刊物	

		Yoshie; Yamagata, Yutaka; Baba, Hidetada; Kino, Koichi; Hirota, Katsuya; Tanaka, Shuji				
271	Fast recognition of global flow regime in pipeline-riser system by spatial correlation of differential pressures	Zou, Suifeng; Guo, Liejin; Xie, Chen	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外刊物	
272	Field study on the corrosion and ash deposition of low-temperature heating surface in a large-scale coal-fired power plant	Chen, Heng; Pan, Peiyuan; Wang, Yungang; Zhao, Qinxin	JOURNAL OF ALLOYS AND COMPOUNDS	693	国外刊物	
273	First principles study towards the influence of interstitial nitrogen on the hydrogen storage properties of the Mg ₂ Ni (010) surface	Wu, Z; Zhu, L; Zhang, Z; Jiang, Z; Yang, F; Wang, Y	NANOSCALE	9	国外刊物	
274	First-principles insights into influencing mechanisms of metalloid B on Mg-based hydrides	Wu, Zhen; Zhu, Luying; Yang, Fusheng; Jiang, Zhao; Zhang, Zaoxiao	JOURNAL OF NUCLEAR MATERIALS	492	国外刊物	
275	First-principles investigation of quantum emission from hBN defects	Tawfik, Sherif Abdulkader; Ali, Said; Fronzi, Marco; Kianinia, Mehran; Toan, Trong Tran; Stampfl, Catherine; Aharonovich, Igor; Toth, Milos; Ford, Michael J	APPLIED THERMAL ENGINEERING	110	国外刊物	

276	First-principles study of water reacting with the (110) surface of uranium mononitride	Bo, Tao; Lan, Jian-Hui; Zhao, Yao-Lin; He, Chao-Hui; Chai, Zhi-Fang; Shi, Wei-Qun	APPLIED THERMAL ENGINEERING	125	国外刊物	
277	Flow characteristics of liquid nitrogen through solid-cone pressure swirl nozzles	Liu, Xiufang; Xue, Rong; Ruan, Yixiao; Chen, Liang; Zhang, Xingqun; Hou, Yu	FUEL	203	国外刊物	
278	Flow mixing and heat transfer in nuclear reactor vessel with direct vessel injection	Weng, Yu; Wang, Haitao; Cai, Benan; Gu, Hongfang; Wang, Haijun	APPLIED THERMAL ENGINEERING	117	国外刊物	
279	Fouling characteristics analysis and morphology prediction of heat exchangers with a particulate fouling model considering deposition and removal mechanisms	Tang, Song-Zhen; Wang, Fei-Long; Ren, Qinlong; He, Ya-Ling	JOURNAL OF MOLECULAR LIQUIDS	240	国外刊物	
280	Fouling of the flue gas cooler in a large-scale coal-fired power plant	Chen, Heng; Pan, Peiyuan; Chen, Xiaolu; Wang, Yungang; Zhao, Qinxin	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	国外刊物	
281	Functionally reduced graphene oxide supported iron oxides composites as an adsorbent for the immobilization of uranium ions from aqueous solutions	Zong, Pengfei; Cao, Duanlin; Cheng, Yuan; Zhang, Hangzhou; Shao, Dadong; Wang, Shoufang; He, Chaohui; Zhao, Yaolin	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外刊物	

282	Gas diffusion on graphene surfaces	Sun, Chengzhen; Bai, Bofeng	INTERNATIONAL JOURNAL OF MULTIPHASE FLOW	91	国外刊物	
283	Gasification of diosgenin solid waste for hydrogen production in supercritical water	Cao, Wen; Cao, Changqing; Guo, Liejin; Jin, Hui; Dargusch, Matthew; Bernhardt, Debra; Yao, Xiangdong	APPLIED THERMAL ENGINEERING	126	国外刊物	
284	Gas-liquid two phase flow with high GVF through a horizontal V-Cone throttle device	He, Denghui; Bai, Bofeng	CHEMICAL ENGINEERING SCIENCE	164	国外刊物	
285	Gas-side fouling, erosion and corrosion of heat exchangers for middle/low temperature waste heat utilization: A review on simulation and experiment	Li, Ming-Jia; Tang, Song-Zhen; Wang, Fei-Long; Zhao, Qin-Xin; Tao, Wen-Quan	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	108	国外刊物	
286	Generalization of droplet entrainment rate correlation for annular flow considering disturbance wave properties	Liu, Li; Bai, Bofeng	INTERNATIONAL JOURNAL OF THERMAL SCIENCES	122	国外刊物	
287	Global simulation of coupled oxygen and carbon transport in an industrial directional solidification furnace for crystalline silicon ingots: Effect of crucible cover coating	Liu, Lijun; Ma, Wencheng; Qi, Xiaofang; Li, Zaoyang; Zhang, Yunfeng	JOURNAL OF CHEMICAL THERMODYNAMICS	111	国外刊物	
288	Ground experimental investigation of thermodynamic vent system with HCFC123	Liu, Zhan; Li, Yanzhong; Xia, Siqi; Tan, Hongbo	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	112	国外刊物	

289	Heat capacity of isobutane in liquid phase at temperatures from 303 K to 413 K and pressures up to 12 MPa	Liu, Yu; Zhao, Xiaoming; Lv, Shaohua	JOURNAL OF SUPERCRITICAL FLUIDS	128	国外刊物	
290	Heat transfer and flow of a dense suspension between two cylinders	Wu, Wei-Tao; Zhou, Zhi-Fu; Aubry, Nadine; Antaki, James F; Massoudi, Mehrdad	SOLAR ENERGY	148	国外刊物	
291	Heat transfer and frictional resistance characteristics of the water wall tube of an ultra-supercritical CFB boiler	Wang, Wenyu; Yang, Dong; Jiang, Huiqing; Qu, Mofeng; Zhao, Yunjie	ANNALS OF NUCLEAR ENERGY	110	国外刊物	
292	Heat transfer performance evaluation of a large-size cavity receiver in the solar power tower plant based on angle factors	Deng, Qian; Xiao, Xinyue; Hao, Yun; Wang, Qizhi; Hu, Tian; Wang, Yueshe	FUEL	191	国外刊物	
293	Heterogeneous neutron-leakage model for PWR pin-by-pin calculation	Li, Yunzhao; Zhang, Bin; Wu, Hongchun; Shen, Wei	ENERGY & FUELS	31	国外刊物	
294	High temperature ignition delay time of DME/n-pentane mixture under fuel lean condition	Jiang, Xue; Deng, Fuquan; Yang, Feiyu; Zhang, Yingjia; Huang, Zuohua	RSC ADVANCES	7	国外刊物	
295	High-Efficiency Gasification of Wheat Straw Black Liquor in Supercritical Water at High Temperatures for Hydrogen Production	Cao, Changqing; Xu, Lichao; He, Youyou; Guo, Liejin; Jin, Hui; Huo, Ziyang	ENERGY	133	国外刊物	
296	Highly efficient adsorbent design using a Cu-BTC/CuO/ carbon fiber paper composite for high CH ₄ /N ₂ selectivity	Qu, Zhi-Guo; Wang, Hui; Zhang, Wen	CHEMICAL ENGINEERING JOURNAL	322	国外刊物	

297	High-temperature oxidation kinetics of iso-octane/n-butanol blends-air mixture	Li, Xiaotian; Hu, Erjiang; Meng, Xin; Lu, Xin; Huang, Zuohua	CHEMICAL ENGINEERING SCIENCE	158	国外刊物	
298	Hollow MnOx-CeO2 mixed oxides as highly efficient catalysts in NO oxidation	Shen, Qun; Zhang, Lingyun; Sun, Nannan; Wang, Hui; Zhong, Liangshu; He, Chi; Wei, Wei; Sun, Yuhan	RSC ADVANCES	7	国外刊物	
299	Huge wave and drop entrainment mechanism in gas-liquid churn flow (vol 108, pg 638, 2013)	Wang, Ke; Bai, Bofeng; Ma, Weimin	NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS	72	国外刊物	
300	Humidity-accelerated spreading of ionic liquids on a mica surface	Wang, Zhantao; Shi, Fuxi; Zhao, Cunlu	SCIENTIFIC REPORTS	7	国外刊物	
301	Hybrid central-WENO scheme for the large eddy simulation of turbulent flows with shocks	Li, Zhen; Ju, Yaping; Zhang, Chuhua	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外刊物	
302	Hybrid Dielectric-loaded Nanoridge Plasmonic Waveguide for Low-Loss Light Transmission at the Subwavelength Scale	Zhang, Bin; Bian, Yusheng; Ren, Liqiang; Guo, Feng; Tang, Shi-Yang; Mao, Zhangming; Liu, Xiaomin; Sun, Jinju; Gong, Jianying; Guo, Xiasheng; Huang, Tony Jun	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外刊物	

303	Hydrogen production by non-catalytic partial oxidation of coal in supercritical water: The study on reaction kinetics	Ge, Zhiwei; Guo, Liejin; Jin, Hui	POWDER TECHNOLOGY	313	国外刊物	
304	Hydrogen-rich syngas produced from the co-pyrolysis of municipal solid waste and wheat straw	Zhao, Jun; Wang, Shuzhong; Wu, Zhiqiang; Meng, Haiyu; Chen, Lin	BIORESOURCE TECHNOLOGY	232	国外刊物	
305	Hydromechanical Simulation of a Bubbling Fluidized Bed Using an Extended Bubble-based EMMS Model	Li, Jiageng; Tian, Xueyu; Yang, Bolun	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外刊物	
306	Hydrothermal liquefaction of sewage sludge under isothermal and fast conditions	Qian, Lili; Wang, Shuzhong; Savage, Phillip E	CHEMSUSCHEM	10	国外刊物	
307	Hydrothermal synthesis of pyramid-like In ₂ S ₃ film for efficient photoelectrochemical hydrogen generation	Feng, Xiaoyang; Chen, Yubin; Wang, Menglong; Guo, Liejin	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	国外刊物	
308	Hydroxide Self-Feeding High-Temperature Alkaline Direct Formate Fuel Cells	Li, Yinshi; Sun, Xianda; Feng, Ying	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	114	国外刊物	
309	Identifying electrochemical effects in a thermal-electrochemical co-driven system for CO ₂ capture	Liu, Guang X; Yu, Yun S; Hong, Ying T; Zhang, Zao X; Wei, Jin J; Wang, Geoff G X	PROCEEDINGS OF THE COMBUSTION INSTITUTE	36	国外刊物	

310	Identifying the multi-ion effects on the phase flow, mass and heat transfer in amine absorption of CO2	Yu, Yunsong; Zhang, Tingting; Liu, Guangxin; Zhang, Zaoxiao; Wang, Geoff	SCIENTIFIC REPORTS	7	国外刊物	
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312	Improved Analytical Sensitivity of Lateral Flow Assay using Sponge for HBV Nucleic Acid Detection	Tang, Ruihua; Yang, Hui; Gong, Yan; Liu, Zhi; Li, XiuJun; Wen, Ting; Qu, ZhiGuo; Zhang, Sufeng; Mei, Qibing; Xu, Feng	MATERIALS LETTERS	188	国外刊物	
313	Improved discrete nodal transport method for treating void regions	Xu, Zhitao; Wu, Hongchun; Li, Yunzhao; Zheng, Youqi	CARBON	117	国外刊物	
314	Improved performance of symmetrical solid oxide fuel cells with redox-reversible cermet electrodes	Chen, Yonghong; Cheng, Zhuanxia; Yang, Yang; Yu, Weili; Tian, Dong; Lu, Xiaoyong; Ding, Yanzhi; Lin, Bin	FUEL	210	国外刊物	
315	Improved quantification of curvature in high-resolution transmission electron	Wang, Chang'an; Huddle, Thomas;	INTERNATIONAL JOURNAL FOR	85	国外刊物	

	microscopy lattice fringe micrographs of soots	Huang, Chung-Hsuan; Zhu, Wenbo; Vander Wal, Randy L; Lester, Edward H; Mathews, Jonathan P	NUMERICAL METHODS IN FLUIDS			
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319	In situ evolution of highly dispersed amorphous CoOx clusters for oxygen evolution reaction	Chen, Dawei; Dong, Chung-Li; Zou, Yubin; Su, Dong; Huang, Yu-Cheng; Tao, Li; Dou, Shuo; Shen, Shaohua; Wang, Shuangyin	PHYSICS OF FLUIDS	29	国外 刊物	
320	Indoor Air Pollution Levels in Decorated Residences and Public Places over Xi'an, China	Chang, Tian; Ren, Dongxiao; Shen, Zhenxing; Huang, Yu; Sun, Jian; Cao, Junji; Zhou, Jiyang; Liu, Hongxia; Xu, Hongmei; Zheng, Chunli; Pan, Hua; He, Chi	NATURE COMMUNICA TIONS	8	国外 刊物	
321	Induced charge effects on electrokinetic entry flow	Prabhakaran, Rama Aravind; Zhou, Yilong; Zhao, Cunlu; Hu, Guoqing; Song, Yongxin; Wang, Junsheng; Yang, Chun; Xuan, Xiangchun	PROCEEDIN GS OF THE INSTITUTION OF MECHANICA L ENGINEERS PART E-JOURNAL OF PROCESS MECHANICA L ENGINEERIN G	231	国外 刊物	
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		Kuang, Qin; Wang, Zhao; Shan, Zhiwei; Jin, Mingshang; Yin, Yadong				
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324	Influence of Biomass Reburning on NOx Reductions during Pulverized Coal Combustion	Zhuang, Huiyong; Niu, Yanqing; Gong, Yanhao; Zhang, Yu; Zhang, Yanru; Hui, Shien	ENERGIES	10	国外 刊物	
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327	Influences of wake-effects on bubble dynamics by utilizing micro-pin-finned surfaces under microgravity	Qi, Baojin; Wei, Jinjia; Wang, Xueli; Zhao, Jianfu	FUEL	203	国外 刊物	
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346	Investigation on the fast co-pyrolysis of sewage sludge with biomass and the combustion reactivity of residual char	Deng, Shuanghui; Tan, Houzhang; Wang, Xuebin; Yang, Fuxin; Cao, Ruijie; Wang, Zhao; Ruan, Renhui	APPLIED SCIENCES-BASEL	7	国外刊物	
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359	LaTiO ₂ N-LaCrO ₃ : continuous solid solutions towards enhanced photocatalytic H ₂ evolution under visible-light irradiation	Shi, Jinwen; Zhang, Yazhou; Zhou, Zhaohui; Zhao, Yixiang; Liu, Jingyuan; Liu, Hongbing; Liao, Xiang; Hu, Yuchao; Zhaoa, Daming; Shen, Shaohua	INTERNATIO NAL COMMUNICA TIONS IN HEAT AND MASS TRANSFER	81	国外 刊物	
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377	Mechanisms of voltage spikes and mitigation strategies for proton exchange membrane fuel cells with dead-ended anode under pressure swing operation	Yang, Yupeng; Zhang, Xu; Guo, Liejin; Liu, Hongtan	ENERGY CONVERSION AND MANAGEMENT	139	国外刊物	
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379	Migration Behavior of Trace Elements at a Coal-Fired Power Plant with Different Boiler Loads	Zhao, Shilin; Duan, Yufeng; Wang, Chenping; Liu, Meng; Lu, Jianhong; Tan, Houzhang; Wang, Xuebin; Wu, Lituo	ANNALS OF NUCLEAR ENERGY	110	国外刊物	
380	Mitigation strategies for hydrogen starvation under dynamic loading in proton exchange membrane fuel cells	Jia, Fei; Guo, Liejin; Liu, Hongtan	INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID	83	国外刊物	
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389	Mo-doped Pr _{0.6} Sr _{0.4} Fe _{0.8} Ni _{0.2} O _{3-δ} as potential electrodes for intermediate-temperature	Lu, Xiaoyong; Yang, Yang; Ding, Yanzhi; Chen, Yonghong; Gu,	POLYMERS	9	国外刊物	

	e symmetrical solid oxide fuel cells	Qingwen; Tian, Dong; Yu, Weili; Lin, Bin				
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402	Multi-size unit cells to predict effective thermal conductivities of 3D four-directional braided composites	Gou, Jian-Jun; Fang, Wen-Zhen; Dai, Yan-Jun; Li, Shuguang; Tao, Wen-Quan	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	国外刊物	
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404	Nd:YAG laser-induced morphology change and photothermal conversion of gold nanorods with potential application in the treatment of port-wine stain	Xing, Linzhuang; Chen, Bin; Li, Dong; Ma, Jun; Wu, Wenjuan; Wang, Guoxiang	NONLINEAR DYNAMICS	88	国外刊物	
405	Neutronic design and evaluation of a PWR fuel assembly with accident tolerant-Fully Ceramic Micro-Encapsulated (AT-FCM) fuel	Awan, M Qasim; Cao, Liangzhi; Wu, Hongchun	SCIENTIFIC REPORTS	7	国外刊物	
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410	Non-monotonic behaviors of laminar burning velocities of H-2/O-2/He mixtures at elevated pressures and temperatures	Lu, Xin; Hu, Erjiang; Li, Xiaojie; Ku, Jinfeng; Huang, Zuohua	HEAT TRANSFER ENGINEERING	38	国外刊物	
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413	Nucleate boiling performance evaluation of cavities at mesoscale level	Mu, Yu-Tong; Chen, Li; He, Ya-Ling; Kang, Qin-Jun; Tao, Wen-Quan	PLASMA SCIENCE & TECHNOLOGY	19	国外刊物	
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415	Numerical analysis of the dissolution of uranium dioxide by molten zircaloy using MPS method	Li, Yonglin; Chen, Ronghua; Guo, Kailun; Tian, Wenxi; Qiu,	INTERNATIONAL JOURNAL OF HEAT AND MASS	110	国外刊物	

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448	Numerical study on flow pattern of sonic steam jet condensed into subcooled water	Zhou, Lun; Chong, Daotong; Liu, Jiping; Yan, Junjie	ENERGIES	10	国外 刊物	
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465	Parameter study on the fouling characteristics of the H-type finned tube heat exchangers	Wang, Fei-Long; He, Ya-Ling; Tang, Song-Zhen; Tong, Zi-Xiang	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL	535	国外 刊物	

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478	Performance comparison between the combined R134a/CO2 heat pump and cascade R134a/CO2 heat pump for space heating	Song, Yulong; Li, Dongzhe; Yang, Dongfang; Jin, Lei; Cao, Feng; Wang, Xiaolin	CHINESE JOURNAL OF CHEMICAL ENGINEERING	25	国外刊物	
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501	Pore-scale study of multiphase reactive transport in fibrous electrodes of vanadium redox flow batteries	Chen, Li; He, YaLing; Tao, Wen-Quan; Zelenay, Piotr; Mukundan, Rangachary; Kang, Qinjun	APPLIED THERMAL ENGINEERING	112	国外刊物	
502	Porous YFe _{0.5} Co _{0.5} O ₃ thin sheets as cathode for intermediate-temperature solid oxide fuel cells	Cui, Jiajia; Wang, Junkai; Fan, Weiwei; Wan, Yiheng; Zhang, Xiongwen; Li, Guojun; Wu, Kai; Cheng, Yonghong; Zhou, Jun	FUSION ENGINEERING AND DESIGN	121	国外刊物	
503	Postsynthesis of mesoporous ZSM-5 zeolites with TPAOH-assisted desilication and determination of activity performance in N ₂ O decomposition	Shen, Qun; Zhang, Lingyun; Wu, Minfang; He, Chi; Wei, Wei; Sun, Nannan; Sun, Yuhan	JOURNAL OF POLYMERS AND THE ENVIRONMENT	25	国外刊物	

504	Preliminary accident analysis of Loss of Off-Site Power and In-Box LOCA for the CFETR helium cooled solid breeder blanket	Lian, Qiang; Cui, Shijie; Tian, Wenxi; Zhang, Jing; Zhang, Dalin; Su, G H	APPLIED THERMAL ENGINEERING	124	国外 刊物	
505	Preliminary design and off-design performance analysis of an Organic Rankine Cycle radial-inflow turbine based on mathematic method and CFD method	Zheng, Ya; Hu, Dongshuai; Cao, Yue; Dai, Yiping	CHEMICAL ENGINEERING SCIENCE	174	国外 刊物	
506	Preliminary safety assessment on two LOCAs under ITER-like condition for the optimized CFETR helium cooled solid breeder blanket	Lian, Qiang; Tian, Wenxi; Cui, Shijie; Qiu, Suizheng; Su, G H	ANNALS OF NUCLEAR ENERGY	101	国外 刊物	
507	Preparation of Fe ₃ O ₄ /TiO ₂ /Polypyrrole Ternary Magnetic Composite and Using as Adsorbent for the Removal of Acid Red G	Feng, Jiangtao; Sun, Nana; Wu, Danyu; Yang, Honghui; Xu, Hao; Yan, Wei	INTERNATIO NAL JOURNAL OF HEAT AND MASS TRANSFER	104	国外 刊物	
508	Pressure drop for highly subcooled water flow boiling under high heat and mass fluxes	Yan, Jianguo; Guo, Pengcheng; Bi, Qincheng; Liu, Zhaohui; Zhang, Qiaoling; Yang, Zhendong	PROCEEDIN GS OF THE COMBUSTIO N INSTITUTE	36	国外 刊物	
509	Pressure drop, void fraction and wave behavior in two-phase non-Newtonian churn flow	Wang, Ke; Jiang, Fan; Bai, Bofeng; Wong, Teck Neng; Duan, Fei; Skote, Martin	FUEL	203	国外 刊物	

510	Pressure losses and interfacial drag for two-phase flow in porous beds with coarse particles	Li, Liangxing; Kong, Liubo; Zou, Xumao; Wang, Huasheng	CHEMICAL ENGINEERING SCIENCE	163	国外刊物	
511	Pressure oscillation and a new method to calculate the heat transfer coefficient for steam jet condensation	Qiu, Binbin; Yan, Junjie; Revankar, Shripad T; Wu, Xinzhuang	APPLIED THERMAL ENGINEERING	125	国外刊物	
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513	Process optimization, kinetic and thermodynamic studies on biodiesel production by supercritical methanol transesterification with CH ₃ ONa catalyst	Zeng, Dan; Yang, Liu; Fang, Tao	APPLIED THERMAL ENGINEERING	118	国外刊物	
514	Profile of huge wave in gas-liquid churn flow	Wang, Ke; Ye, Jing; Bai, Bofeng	APPLIED THERMAL ENGINEERING	118	国外刊物	
515	Promoting hydrogen-rich syngas production from catalytic reforming of biomass pyrolysis oil on nanosized nickel-ceramic catalysts	Gao, Ningbo; Han, Ying; Quan, Cui; Wu, Chunfei	CATALYSIS SCIENCE & TECHNOLOGY	7	国外刊物	

516	Properties of Novel BZCY-(Li/Na)(2)CO ₃ Composite Electrolytes for LT-SOFC	Wu, Guochun; Wang, Cheng; Hei, Yuanfei; Huang, Jianbing; Wang, Xiaomin; Mao, Zongqiang	SCIENTIFIC REPORTS	7	国外刊物	
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518	Prospective fully-coupled multi-level analytical methodology for concentrated solar power plants: General modelling	Li, Lu; Sun, Jie; Li, Yinshi	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	41	国外刊物	
519	Pulsed laser-deposited n-Si/NiOx photoanodes for stable and efficient photoelectrochemical water splitting	He, Lingyun; Zhou, Wu; Cai, Dongping; Mao, Samuel S; Sun, Ke; Shen, Shaohua	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	104	国外刊物	
520	Radiation Resistance of Silicon Carbide Schottky Diode Detectors in D-T Fusion Neutron Detection	Liu, Linyue; Liu, Ao; Bai, Song; Lv, Ling; Jin, Peng; Ouyang, Xiaoping	APPLIED THERMAL ENGINEERING	117	国外刊物	
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523	Real-time fouling characteristics of a typical heat exchanger used in the waste heat recovery systems	Wang, Fei-Long; He, Ya-Ling; Tong, Zi-Xiang; Tang, Song-Zhen	INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	85	国外刊物	
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533	ROLE OF CAPSAICIN- AND HEAT-SENSITIVE AFFERENTS IN STIMULATION OF ACUPOINT-INDUCED PAIN AND ANALGESIA IN HUMANS	Lei, Jing; Ye, Gang; Wu, Jiang-Tao; Pertovaara, Antti; You, Hao-Jun	CHEMISTRY OF MATERIALS	29	国外刊物	
534	Role of Internal Radiation in Oxide Crystal Growth by Heat Exchanger Method	Ma, Wencheng; Liu, Lijun	FUEL	203	国外刊物	
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536	Seasonal Variation and Health Risk Assessment of Heavy Metals in PM2.5 during Winter and Summer over Xi'an, China	Liu, Pingping; Lei, Yali; Ren, Huarui; Gao, Jinjin; Xu, Hongmei; Shen, Zhenxing; Zhang, Qian; Zheng, Chunli;	INTERNATIONAL JOURNAL OF THERMAL SCIENCES	111	国外刊物	

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537	Selective Stabilization and Photophysical Properties of Metastable Perovskite Polymorphs of CsPbI ₃ in Thin Films	Fu, Yongping; Rea, Morgan T; Chen, Jie; Morrow, Darien J; Hautzinger, Matthew P; Zhao, Yuzhou; Pan, Dongxu; Manger, Lydia H; Wright, John C; Goldsmith, Randall H; Jin, Song	APPLIED THERMAL ENGINEERING	124	国外 刊物	
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539	Silver nanoparticles-loaded activated carbon fibers using chitosan as binding agent: Preparation, mechanism, and their antibacterial activity	Tang, Chengli; Hu, Dongmei; Cao, Qianqian; Yan, Wei; Xing, Bo	MICROELECTRONICS RELIABILITY	71	国外 刊物	
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541	Simulation investigation on the design and operation strategy of a 660 MW coal-fired power plant coupled with a steam ejector to ensure NOx reduction ability	Chen, Weixiong; Li, Bingxin; Zhang, Shuangping; Liu, Ming; Liu, Jiping	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	139	国外刊物	
542	Simulation study on 660 MW coal-fired power plant coupled with a steam ejector to ensure NOx reduction ability	Chen, Weixiong; Zhang, Guozhu; Li, Bingxin; Liu, Ming; Liu, Jiping	ENERGY	133	国外刊物	
543	Single event effects sensitivity of low energy proton in Xilinx Zynq-7010 system-on chip	Du, Xuecheng; Liu, Shuhuan; Luo, Dongyang; Zhang, Yao; Du, Xiaozhi; He, Chaohui; Ren, Xiaotang; Yang, Weitao; Yuan, Yuan	APPLIED THERMAL ENGINEERING	125	国外刊物	
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545	Single-Crystal Thin Films of Cesium Lead Bromide Perovskite Epitaxially Grown on Metal Oxide Perovskite (SrTiO ₃)	Chen, Jie; Morrow, Darien J; Fu, Yongping; Zheng, Weihao; Zhao, Yuzhou; Dang, Lianna; Stolt, Matthew J; Kohler, Daniel D; Wang, Xiaoxia; Czech, Kyle J; Hautzinger, Matthew P; Shen,	WATER AIR AND SOIL POLLUTION	228	国外刊物	

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546	Single-valued prediction of markers on heat release rate for laminar premixed biogas-hydrogen and methane-hydrogen flames	Wei, Z L; Leung, C W; Cheung, C S; Huang, Z H	REVIEW OF SCIENTIFIC INSTRUMENTS	88	国外刊物	
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553	Sphere-Shaped Mn ₃ O ₄ Catalyst with Remarkable Low-Temperature Activity for Methyl-Ethyl-Ketone Combustion	Pan, Hua; Jian, Yanfei; Chen, Changwei; He, Chi; Hao, Zhengping; Shen, Zhenxing; Liu, Hongxia	ENERGY CONVERSION AND MANAGEMENT	141	国外刊物	
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579	Temporal characteristic analysis of single event effects in pulse width modulator	Zhao, Wen; Guo, Xiao-Qiang; Chen, Wei; Wang, Zu-Jun; Guo, Hong-Xia; Wang, Yuan-Ming	APPLIED THERMAL ENGINEERING	126	国外 刊物	
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604	Thermal hydraulic design and analysis of Thorium-based Advanced CANDU Reactor (TACR)	Wei, Shiyang; Wang, Chenglong; Tian, Wenxi; Qiu, Suizheng; Su, G H	ENVIRONME NTAL PROGRESS & SUSTAINABL E ENERGY	36	国外 刊物	
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702	Comparative Research on Effect of Positive/Negative Electric Field on Premixed Lean Burn Flame	Wei, Xuxing(1); Jia, Weidong(1); Hou, Juncai(1); Li, Yiming(1); Li, Chao(1); Wu, Xiaomin(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	

703	Comparative Study of Three Modes of Flue Gas Treatment for Power Plants	Tang, Chunli(1); Deng, Lei(1); Zhu, Xin(1); Che, Defu(1)	Journal of Energy Engineering		国外刊物	
704	Construction of Pd-M (M = Ni, Ag, Cu) alloy surfaces for catalytic applications	Li, Xiang(1); Wang, Xixi(1); Liu, Maochang(1); Liu, Hongyang(2); Chen, Qiang(1,3); Yin, Yadong(4); Jin, Mingshang(1)	Nano Research		国外刊物	
705	Control of melt-crystal interface shape during sapphire crystal growth by heat exchanger method	Wu, Ming(1); Liu, Lijun(1); Ma, Wencheng(1)	Journal of Crystal Growth		国外刊物	
706	Corrigendum to ‘Numerical simulation on sonic steam jet condensation in subcooled water through a double-hole nozzle’ (International Journal of Heat and Mass Transfer (2017) 115(Part PA) (143–147) (S0017931017300443) (10.1016/j.ijheatmasstransfer.2017.06.100))	Wang, Lutao(1); Chong, Daotong(1); Zhou, Lun(1); Chen, Weixiong(1); Yan, Junjie(1)	International Journal of Heat and Mass Transfer		国外刊物	
707	Corrigendum to “A 1D model to predict ejector performance at critical and sub-critical operational regimes” (International Journal of Refrigeration (2013) 36(6) (1750–1761))	Chen, Weixiong(1,2); Liu, Ming(1); Chong, Daotong(1); Yan, Junjie(1); Little, Adrienne Blair(3);	International Journal of Refrigeration		国外刊物	

	(S0140700713000984) (10.1016/j.ijrefrig.2013.04.009))	Bartosiewicz, Yann(2)				
708	Corrigendum to “Huge wave and drop entrainment mechanism in gas–liquid churn flow” (Chemical Engineering Science (2013) 104 (638–646) (S0009250913006350) (10.1016/j.ces.2013.09.022))	Wang, Ke(1); Bai, Bofeng(1); Ma, Weimin(2)	Chemical Engineering Science		国外刊物	
709	Coupled simulation of the combustion and fluid heating of a 300 MW supercritical CO ₂ boiler	Yang, Yu(1); Bai, Wengang(1); Wang, Yueming(1); Zhang, Yifan(1); Li, Hongzhi(1); Yao, Mingyu(1); Wang, Haijun(2)	Applied Thermal Engineering		国外刊物	
710	Coupling Analysis between Through Flow and Hub-Shroud Side Leakage Flow of a Centrifugal Compressor Stage	Wang, Shengmin(1,2); Ju, Yaping(1); Zhang, Chuhua(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
711	Critical parameters in design of active magnetocaloric regenerators for magnetic refrigeration applications	Qian, Suxin(1); Yuan, Lifen(1); Yu, Jianlin(1); Yan, Gang(1)	International Journal of Refrigeration		国外刊物	

712	Cross Vapor Stream Effect on Falling Film Evaporation in Horizontal Tube Bundle Using R134a	Zhao, Chuang-Yao(1); Ji, Wen-Tao(1); Jin, Pu-Hang(1); Tao, Wen-Quan(1)	Heat Transfer Engineering		国外刊物	
713	Current differential protection principle of HVDC transmission system	Gao, Shu-Ping(1); Liu, Qi(2,3); Song, Guo-Bing(2)	IET Generation, Transmission and Distribution		国外刊物	
714	Current progress in black phosphorus materials and their applications in electrochemical energy storage	Qiu, M.(1); Sun, Z.T.(2); Sang, D.K.(1); Han, X.G.(2); Zhang, H.(1); Niu, C.M.(2)	Nanoscale		国外刊物	
715	Defects Slow Down Nonradiative Electron-Hole Recombination in TiS ₃ Nanoribbons: A Time-Domain Ab Initio Study	Wei, Yaqing(1); Zhou, Zhaohui(2); Long, Run(1)	Journal of Physical Chemistry Letters		国外刊物	
716	Delay and Decoupling Analysis of a Digital Active EMI Filter Used in Arc Welding Inverter	Ji, Junpeng(1); Chen, Wenjie(2); Yang, Xu(3); Lu, Jingjie(4)	IEEE Transactions on Power Electronics		国外刊物	
717	Design of Multi-blade Centrifugal Fan Based on Grouping Model and Bionic Volute Tongue	Wang, Ke(1); Ju, Ya-Ping(1); Zhang, Chu-Hua(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	

718	Desulfurized flue gas corrosion coupled with deposits in a heating boiler	Pan, Peiyuan(1); Chen, Heng(1); Liang, Zhiyuan(1); Zhao, Qinxin(1)	Corrosion Science		国外 刊物	
719	Development of Gas Pulsation Damping Device for Twin Screw Refrigeration Compressor	Wu, Xiaokun(1); Chen, Wenqing(1,2); Zhou, Minglong(2); Yang, Qiaoming(2); Xing, Ziwen(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外 刊物	
720	Dielectric and thermal properties of epoxy resins with TiO ₂ nanowires	Xie, Qian(1); Cheng, Yonghong(1); Chen, Siyu(1); Wu, Guanglei(1,2); Wang, Zhengdong(1); Jia, Zirui(1)	Journal of Materials Science: Materials in Electronics		国外 刊物	
721	Different flow fields, operation modes and designs for proton exchange membrane fuel cells with dead-ended anode	Yang, Yupeng(1); Zhang, Xu(1,2); Guo, Liejin(1); Liu, Hongtan(2)	International Journal of Hydrogen Energy		国外 刊物	
722	Diffusion of gas molecules on multilayer graphene surfaces: Dependence on the number of graphene layers	Sun, Chengzhen(1); Bai, Bofeng(1)	Applied Thermal Engineering		国外 刊物	
723	Direct Contact Condensation Characteristics Experiment Research in T-junction	Ren, Wu-Yue(1,2); Wang, Liu(1,2); Yu, Guo-Jun(1,2); Bian,	Yuanzineng Kexue Jishu/Atomic Energy Science and Technology		国外 刊物	

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724	Direct solar photocatalytic hydrogen generation with CPC photoreactors: System development	Wei, Qingyu(1); Yang, Yan(1); Hou, Junyi(1); Liu, Huan(1); Cao, Fei(1,2); Zhao, Liang(1)	Solar Energy		国外刊物	
725	Discussions on problem analysis and solutions of a micro turbine test	Fu, Lei(1); Feng, Zhenping(2); Li, Guojun(1)	Microsystem Technologies		国外刊物	
726	Doping method for opacifier and fiber in aerogel composites	Guo, Jiangfeng(1); Zhao, Yue(2); Tang, Guihua(1)	Kexue Tongbao/Chinese Science Bulletin		国外刊物	
727	Dynamic characteristic of the air-cooled refrigerator with two parallel-evaporators in the control of short-cycle switching	Zhang, Zhenya(1); Huang, Dong(1); Leng, Yongqiang(1)	Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology		国外刊物	
728	Dynamic characteristics of the refrigerant migration during the on-off processes of a horizontal freezer	Leng, Yongqiang(1); Zhang, Zhenya(1); Huang, Dong(1)	Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology		国外刊物	

729	Dynamic characteristics of thermal components in lignite-fired supercritical boiler	Xue, Zhao-Nan(1,2); Zhai, Meng-Xu(1); Yan, Jun-Jie(1); Chong, Dao-Tong(1); Liu, Ming(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
730	Easy hydrothermal synthesis of multi-shelled La ₂ O ₃ hollow spheres for lithium-ion batteries	Qu, Shaohua(1); Yu, Yinkai(1); Lin, Kejun(1); Liu, Peiyu(1); Zheng, Chenhui(1); Wang, Liuding(1); Xu, Tingting(2); Wang, Zhengdong(3); Wu, Hongjing(1)	Journal of Materials Science: Materials in Electronics		国外刊物	
731	Effect of carrier gas on gasification performance of two-stage entrained-flow coal gasifier	Fan, Qiang(1); Liu, Yinhe(1); Li, Guangyu(1,2); Che, Defu(1)	Huagong Jinzhan/Chemical Industry and Engineering Progress		国外刊物	
732	Effect of defrost heat leakage on freezer temperature rise during periodical defrost cycles in a frost-free refrigerator-freezer with an electric defrost heater	Zhao, Rijing(1); Huang, Dong(1); Zhang, Zhenya(1); Leng, Yongqiang(1)	Science and Technology for the Built Environment		国外刊物	
733	Effect of di-n-butyl ether blending with soybean-biodiesel on the near-nozzle spray characteristics	Tang, Chenglong(1); Guan, Li(1,2); Feng, Zehao(1); Zhan, Cheng(1); Yang, Ke(1); Huang, Zuohua(1)	Fuel		国外刊物	

734	Effect of foam quality on flow behavior of liquid CO ₂ -based foam fracturing fluid stabilized by hydrofluoroether	Jing, Zefeng(1); Feng, Chenchen(1); Wang, Shuzhong(1); Xu, Donghai(1); Xu, Guixi(1)	Journal of Petroleum Science and Engineering		国外 刊物	
735	Effect of ground electrode on charge injection and surface potential of corona charged polyethylene film	Zhuang, Yuan(1); Hao, Miao(1); Chen, George(1); Chen, Xin(4); Zhang, Chong(2,4); Li, Wenpeng(3,4); Wang, Haitian(4); Zhou, Mingyu(4); Lei, Xianzhang(4)	Journal of Electrostatics		国外 刊物	
736	Effect of high temperature deformation on the microstructure, mechanical properties and hydrogen embrittlement of 2.25Cr–1Mo–0.25 V steel	Wang, Yafei(1); Cheng, Guangxu(1); Qin, Mu(1); Li, Qing(1); Zhang, Zaoxiao(1,2); Chen, Kang(3); Li, Yun(1); Hu, Haijun(1); Wu, Wei(1); Zhang, Jianxiao(4)	International Journal of Hydrogen Energy		国外 刊物	
737	Effect of Mg/Si ratio on the microstructure and hardness–conductivity relationship of ultrafine-grained Al–Mg–Si alloys	Han, Y.(1,2); Shao, D.(3); Chen, B.A.(2); Peng, Z.(3); Zhu, Z.X.(2); Zhang, Q.(2); Chen, X.(2); Liu, G.(3); Li, X.M.(4)	Journal of Materials Science		国外 刊物	

738	Effect of nucleation on instability of step meandering during step-flow growth on vicinal 3C-SiC (0001) surfaces	Li, Yuan(1); Chen, Xuejiang(1); Su, Juan(1)	Journal of Crystal Growth		国外 刊物	
739	Effect of Pressure Side Winglet on Film Cooling and Heat Transfer Performance of Blade Squealer Tip	Huang, Yan(1); Yan, Xin(1); He, Kun(1); Li, Jun(1); Feng, Zhenping(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外 刊物	
740	Effect of prompt dissociation of formyl radical on 1,3,5-trioxane and CH ₂ O laminar flame speeds with CO ₂ dilution at elevated pressure	Zhao, Hao(1); Fu, Jiapeng(1,2); Haas, Francis M.(3); Ju, Yiguang(1)	Combustion and Flame		国外 刊物	
741	Effect of Pulverized Coal Preheating on NO _x Reduction during Combustion	Niu, Yanqing(1); Shang, Tong(1,2); Zeng, Jun(1,3); Wang, Shuai(1); Gong, Yanhao(1); Hui, Shi'En(1)	Energy and Fuels		国外 刊物	
742	Effect of temperature gradient on space charge behavior in epoxy resin and its nanocomposites	Dong, Jinhua(1); Shao, Zhihui(1); Wang, Yang(1); Lv, Zepeng(1,2); Wang, Xia(1); Wu, Kai(1); Li, Wenpeng(3); Zhang, Chong(3)	IEEE Transactions on Dielectrics and Electrical Insulation		国外 刊物	

743	Effects of alternating electric fields on CH ₄ /O ₂ lean combustion flame under high pressure	Hou, Juncai(1); Wei, Xuxing(1); Duan, Hao(1); Li, Chao(1); Li, Yiming(1); Jia, Weidong(1); Wu, Xiaomin(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
744	Effects of carbon corrosion on mass transfer losses in proton exchange membrane fuel cells	Zhang, Xu(1); Yang, Yupeng(1); Guo, Liejin(1); Liu, Hongtan(2)	International Journal of Hydrogen Energy		国外刊物	
745	Effects of density on flow in a nano channel using a molecular-continuum hybrid method	Kim, Youngjin(1); Jeong, Myunggeun(1); Zhou, Wenjing(2); Tao, Wen Quan(3); Ambrosia, Matthew Stanley(4); Ha, Man Yeong(1)	Computers and Fluids		国外刊物	
746	Effects of Endwall Misalignment on Endwall Purge Flow Film Cooling	Yang, Xing(1); Liu, Zhao(1); Liu, Zhan-Sheng(1); Feng, Zhen-Ping(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
747	Effects of Fluid Inertia on Adhesion Behaviors of Elastic Capsules	Luo, Zheng-Yuan(1); Bai, Bo-Feng(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	

748	Effects of furnace pressure on oxygen and carbon coupled transport in an industrial directional solidification furnace for crystalline silicon ingots	Qi, Xiaofang(1,2); Liu, Lijun(1); Ma, Wencheng(1)	Journal of Crystal Growth		国外 刊物	
749	Effects of hydrogen addition on burning characteristics of RP-3 kerosene	Zeng, Wen(1); Zhang, Cunyang(1); Liu, Yu(1); Chen, Baodong(1); Hu, Erjiang(2)	Hangkong Dongli Xuebao/Journal of Aerospace Power		国外 刊物	
750	Effects of inertia on the deformation of drops enclosed by elastic interfaces in linear shear flow	Luo, Zhengyuan(1); Bai, Bofeng(1)	Kexue Tongbao/Chinese Science Bulletin		国外 刊物	
751	Effects of Initiation Radius Selection and Lewis Number on Extraction of Laminar Burning Velocities from Spherically Expanding Flames	Cai, Xiao(1); Wang, Jinhua(1); Zhao, Haoran(1); Xie, Yongliang(2); Huang, Zuohua(1)	Combustion Science and Technology		国外 刊物	
752	Effects of low-frequency alternating electric fields at frequency of 40 Hz on lean methane/air flames	Cui, Yuchen(1); Duan, Hao(1); Zhang, Cong(1); Wu, Xiaomin(1,2)	Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology)		国外 刊物	
753	Effects of mid-passage gap on endwall purge flow film cooling	Yang, Xing(1); Liu, Zhao(1); Liu, Zhan-Sheng(1); Feng, Zhen-Ping(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外 刊物	

754	Effects of nozzle arrangement on uniformity of multiple impinging jets heat transfer in a fast cooling simulation device	Wen, Zhe-Xi(1); He, Ya-Ling(1); Ma, Zhao(1)	Computers and Fluids		国外刊物	
755	Effects of oxidant distribution mode and burner configuration on oxy-fuel combustion characteristics in a 600 MW utility boiler	Li, Debo(1); Liu, Xuan(2); Feng, Yongxin(1); Wang, Chang'an(2); Lv, Qiang(2); Zha, Qiongliang(2); Zhong, Jun(1); Che, Defu(2)	Applied Thermal Engineering		国外刊物	
756	Effects of slip and rheological parameters on the flow and heat transfer of a Herschel-Bulkley fluid	Jing, Zefeng(1); Wang, Shuzhong(1); Zhai, Zhende(1)	International Journal of Numerical Methods for Heat and Fluid Flow		国外刊物	
757	Effects of Slot Purge Flow on Cooling and Heat Transfer Characteristics of End-Wall	Zhu, Pei-Yuan(1); Tao, Zhi(1); Song, Li-Ming(1); Li, Jun(1); Feng, Zhen-Ping(1)	Tuijin Jishu/Journal of Propulsion Technology		国外刊物	
758	Effects of twelve sodium dodecyl sulfate (SDS) on electro-catalytic performance and stability of PbO ₂ electrode	Li, Xiaoliang(1); Xu, Hao(1); Yan, Wei(1)	Journal of Alloys and Compounds		国外刊物	
759	Effects of water mal-distribution on thermostatic-expansion-valve stability	Huang, Dong(1); Leng, Yongqiang(1); Zhang, Zhenya(1)	Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology		国外刊物	

760	Electron-transfer dependent photocatalytic hydrogen generation over cross-linked CdSe/TiO ₂ type-II heterostructure	Chen, Yubin(1); Chuang, Chi-Hung(2); Qin, Zhixiao(1); Shen, Shaohua(1); Doane, Tennyson(2); Burda, Clemens(2)	Nanotechnology		国外刊物	
761	Emission Characteristics of Laser-Induced Plasma Using Collinear Long and Short Dual-Pulse Laser-Induced Breakdown Spectroscopy (LIBS)	Wang, Zhenzhen(1,2); Deguchi, Yoshihiro(2); Liu, Renwei(2,3); Ikutomo, Akihiro(2); Zhang, Zhenzhen(3); Chong, Daotong(1); Yan, Junjie(1); Liu, Jiping(3); Shiou, Fang-Jung(4)	Applied Spectroscopy		国外刊物	
762	Energy and exergy analyses of a lignite-fired power plant integrated with a steam dryer at rated and partial loads	Liu, Ming(1,2); Li, Gen(1); Han, Xiaoqu(1); Qin, Yuanzhi(1); Zhai, Mengxu(1); Yan, Junjie(1)	Drying Technology		国外刊物	
763	Energy, exergy and exergoeconomic analyses of a combined supercritical CO ₂ recompression Brayton/absorption refrigeration cycle	Wu, Chuang(1); Wang, Shun-sen(1); Feng, Xue-jia(1); Li, Jun(1)	Energy Conversion and Management		国外刊物	

764	Engineered WO ₃ nanorods for conformal growth of WO ₃ /BiVO ₄ core–shell heterojunction towards efficient photoelectrochemical water oxidation	Su, Jinzhan(1); Zhang, Tao(1); Wang, Lu(1)	Journal of Materials Science: Materials in Electronics		国外刊物	
765	Enhanced Photocatalytic Performance toward CO ₂ Hydrogenation over Nanosized TiO ₂ -Loaded Pd under UV Irradiation	Li, Naixu(1); Liu, Ming(1); Yang, Bin(1); Shu, Weixin(1); Shen, Quanhao(1); Liu, Maochang(4); Zhou, Jiancheng(1,2,3)	Journal of Physical Chemistry C		国外刊物	
766	Enhancement of heat transfer in Czochralski growth of silicon crystals with a chemical cooling technique	Ding, Junling(1); Liu, Lijun(1); Zhao, Wenhan(1)	Journal of Crystal Growth		国外刊物	
767	Epitaxial Growth of Urchin-Like CoSe ₂ Nanorods from Electrospun Co-Embedded Porous Carbon Nanofibers and Their Superior Lithium Storage Properties	Wang, Jinkai(1); Wang, Hongkang(1); Cao, Daxian(1); Lu, Xuan(1); Han, Xiaogang(1); Niu, Chunming(1)	Particle and Particle Systems Characterization		国外刊物	
768	Erosion Failure of Horizontal Pipe Reducing Wall in Power-Law Fluid Containing Particles via CFD–DEM Coupling Method	Cheng, Jiarui(1); Zhang, Ningsheng(1,2); Li, Zhen(3); Dou, Yihua(3); Cao, Yinping(3)	Journal of Failure Analysis and Prevention		国外刊物	

769	<p>Erratum to: The 2016 Thermal Spray Roadmap (Journal of Thermal Spray Technology, (2016), 25, 8, (1376-1440), 10.1007/s11666-016-0473-x)</p>	<p>Vardelle, Armelle(1); Moreau, Christian(2); Akedo, Jun(3); Ashrafizadeh, Hossein(4); Berndt, Christopher C.(5); Berghaus, Jörg Oberste(6); Boulos, Maher(7); Brogan, Jeffrey(8); Bourtsalas, Athanasios C.(9); Dolatabadi, Ali(2); Dorfman, Mitchell(10); Eden, Timothy J.(11); Fauchais, Pierre(1); Fisher, Gary(12); Gaertner, Frank(13); Gindrat, Malko(14); Henne, Rudolf(15); Hyland, Margaret(16); Irissou, Eric(17); Jodoin, Bertrand(18); Jordan, Eric H.(19); Khor, Khiam Aik(20); Killinger, Andreas(21);</p>	Journal of Thermal Spray Technology		国外刊物	
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770	Eu-Mn-Ti mixed oxides for the SCR of NO _x with NH ₃ : The effects of Eu-modification on catalytic performance and mechanism	Gao, Chen(1); Shi, Jian-Wen(1); Fan, Zhaoyang(1); Yu, Yanke(2); Chen,	Fuel Processing Technology		国外 刊物	

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771	Evaluation and analysis on the coupling performance of a high-speed turboexpander compressor	Chen, Shuangtao(1); Fan, Yufeng(2); Yang, Shanju(1); Chen, Xingya(1); Hou, Yu(1)	Cryogenics		国外刊物	
772	Evaporation and Movement Characteristics of Single Liquid Nitrogen Droplet in High-Speed Gas Flow	Ruan, Yixiao(1); Xue, Rong(1); Lai, Huan(1,2); Liu, Xiufang(1); Hou, Yu(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
773	Evolution of the Reactor Antineutrino Flux and Spectrum at Daya Bay	An, F.P.(1,44); Balantekin, A.B.(2); Band, H.R.(3); Bishai, M.(4); Blyth, S.(5,6); Cao, D.(7); Cao, G.F.(8); Cao, J.(8); Chan, Y.L.(9); Chang, J.F.(8); Chang, Y.(6); Chen, H.S.(8); Chen, Q.Y.(10); Chen, S.M.(11); Chen, Y.X.(12); Chen, Y.(13); Cheng, J.(10); Cheng, Z.K.(14); Cherwinka, J.J.(2); Chu, M.C.(9); Chukanov,	Physical Review Letters		国外刊物	

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774	Exergy and exergoeconomic analyses of a supercritical CO ₂ cycle for a cogeneration application	Wang, Xurong(1); Yang, Yi(1); Zheng, Ya(1); Dai, Yiping(1)	Energy		国外刊物	
775	Experiment for Partial Reflux Axial-Flow Cyclone Separator with Two-Stage Separation	Liu, Biyuan(1); Feng, Jianmei(1); Xia, Zongfei(1); Chang, Yunfeng(1); Peng, Xueyuan(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
776	Experimental and kinetic modeling study on 2,4,4-trimethyl-1-pentene ignition behind reflected shock waves	Hu, Erjiang(1); Yin, Geyuan(1); Gao, Zhenhua(1); Liu, Yang(1); Ku, Jinfeng(1); Huang, Zuohua(1)	Fuel		国外刊物	

777	Experimental and Numerical Analysis on the Internal Flow of Supersonic Ejector Under Different Working Modes	Chen, Weixiong(1); Xue, Kangkang(1); Chen, Huiqiang(1); Chong, Daotong(1); Yan, Junjie(1)	Heat Transfer Engineering		国外刊物	
778	Experimental evaluation of scattering phase function and optimization of radiation absorption in solar photocatalytic reactors	Hou, Junyi(1); Wei, Qingyu(1); Yang, Yan(1); Zhao, Liang(1)	Applied Thermal Engineering		国外刊物	
779	Experimental investigation on a capillary tube based transcritical CO ₂ heat pump system	Song, Yulong(1); Wang, Jing(1); Cao, Feng(1); Shu, Pengcheng(1); Wang, Xiaolin(2)	Applied Thermal Engineering		国外刊物	
780	Experimental Investigation on Critical Heat Flux in Vertical Rifled Tube of Near-critical Pressure Region	Xie, Hai-Yan(1); Li, Yao-De(1); Jiang, Hui-Qing(1); Yang, Dong(1)	Yuanzineng Kexue Jishu/Atomic Energy Science and Technology		国外刊物	
781	Experimental Investigation on Flash Speed of NaCl Solution in Circulatory Flash Vaporization	Wang, Yu(1); He, Qi(1); Yu, Long-Wen(1); Yan, Jun-Jie(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
782	Experimental Investigation on Heat Transfer of Supercritical Pressure Water Flowing in Sub-Channel with Triangle Distribution in Reactors	Xu, Weihui(1); Ma, Ziqiang(1); Wang, Weishu(1); Cui, Qiang(1); Zhu, Xiaojing(2); Lu, Tong(1); Bi,	Hedongli Gongcheng/Nuclear Power Engineering		国外刊物	

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783	Experimental investigation on heat transfer phenomenon in metal foam filled tubes	Wang, Hui(1); Guo, Lie-Jin(1); Hao, Jie(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysic s		国外 刊物	
784	Experimental investigation on methanation reaction based on coal gasification in supercritical water	Hui, Jin(1); Xiao, Zhao(1); Liejin, Guo(1); Chao, Zhu(1); Changqing, Cao(1); Zhenqun, Wu(1)	International Journal of Hydrogen Energy		国外 刊物	
785	Experimental Investigation on the NO ₂ Reduction Property under O ₂ /CO ₂ Combustion Condition	Wang, Pengqian(1); Wang, Chang'an(1); Du, Yongbo(1); Zhang, Longfei(1); Che, Defu(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外 刊物	
786	Experimental investigation on thermal-hydraulic characteristics of endothermic hydrocarbon fuel in 1 mm and 2 mm diameter mini-channels	Guo, Yong(1); Bi, Qincheng(1); Liu, Zhaohui(1); Yang, Zhuqiang(1); Jiang, Lei(1)	Applied Thermal Engineering		国外 刊物	
787	Experimental Research on Condensation Characteristics of Alkali Salts	Jin, Xi(1); Ye, Jia-Ming(1); Li, Yan(1); Deng, Lei(1); Che, De-Fu(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysic s		国外 刊物	

788	Experimental research on flow characteristics of boiling two-phase liquid sodium in annuli	Qiu, Zi-Cheng(1,2); Lan, Zhi-Ke(2); Qiu, Sui-Zheng(1); Gao, Xin-Li(1,3); Lu, Xiao-Dong(2); Sun, Du-Cheng(2)	Yuanzineng Kexue Jishu/Atomic Energy Science and Technology		国外刊物	
789	Experimental Research on Heat Transfer Characteristics of Boiling Two-phase Liquid Sodium in Annuli	Qiu, Zi-Cheng(1,2); Lan, Zhi-Ke(2); Qiu, Sui-Zheng(1); Xie, Xu(2); Lu, Xiao-Dong(2); Sun, Du-Cheng(2)	Yuanzineng Kexue Jishu/Atomic Energy Science and Technology		国外刊物	
790	Experimental research on macroscopic and microscopic characteristics of ethanol-fatty acid methyl ester blends sprays	Li, Junge(1); Yu, Xiaocao(1); Liu, Bin(1); Hu, Tiegang(1); Wang, Xibin(2)	Lecture Notes in Electrical Engineering		国外刊物	
791	Experimental research on the effect of pipe surface wettability on flow resistance in laminar flow	Jing, Jiaqiang(1,2); Qi, Hongyuan(1); Liang, Aiguo(3); Shi, Jianying(3); Jiang, Huayi(4); Zhang, Yixiang(4); Wang, Yulong(4,5); Sun, Nana(4)	Huagong Jinzhan/Chemical Industry and Engineering Progress		国外刊物	
792	Experimental Research on the Ground Thermodynamic Vent System	Liu, Zhan(1); Zhang, Shaohua(2); Zhang, Xiaoyu(2); Liu, Xin(2); Li, Yanzhong(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	

793	Experimental studies on the poisoning properties of a low-plateau hydrogen storage alloy LaNi _{4.3} Al _{0.7} against CO impurities	Yang, F.S.(1); Chen, X.Y.(1); Wu, Z.(1); Wang, S.M.(2); Wang, G.X.(3); Zhang, Z.X.(1,4); Wang, Y.Q.(5)	International Journal of Hydrogen Energy		国外刊物	
794	Experimental Study of Heat Transfer and Pressure Drop for H-type Finned Oval Tube with Longitudinal Vortex Generators and Dimples under Flue Gas	Zhao, Xuebin(1); Tang, Guihua(1); Shi, Yuetao(2); Li, Yongkuan(3)	Heat Transfer Engineering		国外刊物	
795	Experimental study of n-decane decomposition with microsecond pulsed discharge plasma	Song, Feilong(1); Jin, Di(1); Jia, Min(1); Wei, Wenwen(2); Song, Huimin(1); Wu, Yun(1,3)	Plasma Science and Technology		国外刊物	
796	Experimental study of the thermal characteristics of microencapsulated phase change composite cylinders	Fang, Y.(1); Qu, Z.G.(1); Fu, Y.D.(1)	Applied Thermal Engineering		国外刊物	
797	Experimental Study on Differential Pressure Fluctuations Characteristics of Unsteady Flow Pattern in Pipeline-riser System	Yao, Tian(1); Guo, Lie-Jin(1); Liu, Zhi-Gang(1); Wu, Quan-Hong(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
798	Experimental Study on Effects of Nanoparticles Deposition on Flow and Heat Transfer Characteristics of Nanofluid	Deng, Kuanghan(1); Wu, Junmei(1); Wang, Yun(2); Su, Guanghui(2)	Hedongli Gongcheng/Nuclear Power Engineering		国外刊物	

799	Experimental Study on Fluid Thermal Stratification During Operation of Thermodynamic Vent	Liu, Zhan(1); Zhang, Xiao-Yu(2); Zhang, Shao-Hua(2); Liu, Xin(2); Li, Yan-Zhong(1)	Yuhang Xuebao/Journal of Astronautics		国外刊物	
800	Experimental study on heat transfer characteristics of LN2saturated flow boiling in a horizontal corrugated tube	Su, Xuemei(1); Chen, Xingya(1); Zhang, Qiaoyu(1); Liu, Xiufang(1); Chen, Liang(1); Hou, Yu(1)	Experimental Thermal and Fluid Science		国外刊物	
801	Experimental study on pressure distributions around a circular cylinder in the branch of a T-junction	Yin, Yantao(1); Li, Shicong(1); Chen, Kai(1); Wang, Liangbi(2); Lin, Mei(1); Wang, Qiuwang(1)	Chemical Engineering Transactions		国外刊物	
802	Experimental Study on the Ash Deposition Characteristics of Heat Exchanger Tubes With Honeycomb Structure	Huang, Zhong(1,2); Liu, Guan-Jie(2); Chen, Lin(3); Ding, Lai-Xu(4); Yang, Li-Jun(3); Che, De-Fu(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
803	Experimental study on the difference of heat transfer characteristics between vertical and horizontal flows of supercritical pressure water	Lei, Xianliang(1); Li, Huixiong(1); Zhang, Weiqiang(1); Dinh, Nam T.(2); Guo, Yumeng(1); Yu, Shuiqing(1)	Applied Thermal Engineering		国外刊物	

804	Experimental Study on the Droplet Impact on Solid Surface with Different Roughness	Qin, Mengxiao(1); Zhang, Xuhui(1); Tang, Chenglong(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
805	Experimental Study on the Forced Convection Heat Transfer Characteristics of Air Flow Across a Cylinder under Low Vacuum Pressures	Xie, Fushou(1); Li, Yanzhong(1,2); Wang, Xinbao(1); Chen, Pengwei(1); Wang, Lei(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
806	Experimental Study on the Heat Transfer of Metal Foam Filled in Paraffin	Zhang, Jia-Jie(1); Qu, Zhi-Guo(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
807	Experimental study on the performance of water source trans-critical CO ₂ heat pump water heater	Liu, Xiufang(1); Liu, Changhai(2); Zhang, Ze(1); Chen, Liang(1,3); Hou, Yu(1)	Energies		国外刊物	
808	Experimental study on thermodynamic vent system with different influence factors	Liu, Zhan(1); Li, Yanzhong(1,2); Zhang, Shaohua(3); Zhang, Xiaoyu(3); Liu, Xin(3)	International Journal of Energy Research		国外刊物	
809	Experimental Study on Transient Process of Gas and Liquid Flow Rates in Pipeline-riser System	Zou, Sui-Feng(1); Guo, Lie-Jin(1); Liu, Wei-Zhi(1); Yao, Tian(1); Kuang, Shi-Cai(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	

810	Experimental Study on Water Recovery and Heat Transfer Characteristics of Lignite Drying Exhaust	Qin, Yuanzhi(1); Fu, Hao(1); Wang, Jinshi(1); Liu, Ming(1); Yan, Junjie(1)	Zhongguo Dianji Gongcheng Xuebao/Proce edings of the Chinese Society of Electrical Engineering		国外 刊物	
811	Fabrication and formation mechanism of Li ₂ MnO ₃ ultrathin porous nanobelts by electrospinning	Yang, Guorui(1); Wang, Ling(1); Wang, Jianan(1); Yan, Wei(1)	Ceramics International		国外 刊物	
812	Fabrication of Cd _{0.5} Zn _{0.5} S nanoparticles decorated TiO ₂ nanotube arrays electrode and its enhanced photoelectrocatalytic performance	Wu, Jia(1); Xu, Hao(1); Yan, Wei(1)	Journal of Alloys and Compounds		国外 刊物	
813	Fabrication of g-C ₃ N ₄ /Au/C-TiO ₂ Hollow Structures as Visible-Light-Driven Z-Scheme Photocatalysts with Enhanced Photocatalytic H ₂ Evolution	Zou, Yajun(1); Shi, Jian-Wen(1); Ma, Dandan(1); Fan, Zhaoyang(1); Niu, Chunming(1); Wang, Lianzhou(2)	ChemCatChe m		国外 刊物	
814	Fabrication of MgTiO ₃ nanofibers by electrospinning and their photocatalytic water splitting activity	Wang, Ling(1); Yang, Guorui(1,2); Peng, Shengjie(2); Wang, Jianan(1); Ji, Dongxiao(2); Yan, Wei(1); Ramakrishna, Seeram(2)	International Journal of Hydrogen Energy		国外 刊物	

815	Fabrication of one-dimensional CdFe ₂ O ₄ yolk/shell flat nanotubes as a high-performance anode for lithium-ion batteries	Wang, Jianan(1); Yang, Guorui(1); Wang, Ling(1); Yan, Wei(1)	Journal of Materials Science		国外刊物	
816	Facet-Selective Growth of Cadmium Sulfide Nanorods on Zinc Oxide Microrods: Intergrowth Effect for Improved Photocatalytic Performance	Guo, Xu(1); Chen, Yubin(1); Qin, Zhixiao(1); Su, Jinzhan(1); Guo, Liejin(1)	ChemCatChem		国外刊物	
817	Facile Modification of a Polythiophene/TiO ₂ Composite Using Surfactants in an Aqueous Medium for an Enhanced Pb(II) Adsorption and Mechanism Investigation	Chen, Jie(1); Wang, Ning(1); Ma, Hongyu(1); Zhu, Jinwei(1,2); Feng, Jiangtao(1); Yan, Wei(1)	Journal of Chemical and Engineering Data		国外刊物	
818	Facile synthesis of Co ₃ O ₄ spheres and their unexpected high specific discharge capacity for Lithium-ion batteries	Wang, Zhengdong(1); Qu, Shaohua(2); Cheng, Yonghong(1); Zheng, Chenghui(2); Chen, Siyu(1); Wu, Hongjing(2)	Applied Surface Science		国外刊物	
819	Facile synthesis of CuSO ₄ /TiO ₂ catalysts with superior activity and SO ₂ tolerance for NH ₃ -SCR: Physicochemical properties and reaction mechanism	Yu, Yanke(1,2); Miao, Jifa(2); Wang, Jinxiu(2); He, Chi(1,3); Chen, Jinsheng(2)	Catalysis Science and Technology		国外刊物	

820	First principles study towards the influence of interstitial nitrogen on the hydrogen storage properties of the Mg ₂ Ni (0 1 0) surface	Wu, Z.(1); Zhu, L.(1); Zhang, Z.(1,2); Jiang, Z.(1); Yang, F.(1); Wang, Y.(3)	International Journal of Hydrogen Energy		国外刊物	
821	Fluid Excited Rotordynamic Characteristics of Labyrinth Seal During Non-Uniform Inlet Flowing	Chen, Yaoxing(1); Li, Zhigang(1); Li, Jun(1,2)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
822	Gas emission source term estimation with 1-step nonlinear partial swarm optimization-Tikhonov regularization hybrid method	Ma, Denglong(1); Tan, Wei(1); Zhang, Zaoxiao(2,3); Hu, Jun(4)	Chinese Journal of Chemical Engineering		国外刊物	
823	Geometric Characteristic and Working Mechanism of Injection Process in Single Screw Compressor with Injection	Wang, Zengli(1); Shen, Yingfeng(1); Wang, Zhenbo(1); Wang, Jun(1); Feng, Quanke(2)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
824	Gold nanoshurikens with uniform sharp tips for chemical sensing by the localized surface plasmon resonance	Zhang, Lei(1); Sha, Xiao(1); Fan, Qikui(1); Han, Lu(2); Yin, Yadong(3); Gao, Chuanbo(1)	Nanoscale		国外刊物	
825	Guest Editorial Special Issue on Vacuum Discharge Plasmas (ISDEIV-PS)-2017	Shi, Zongqian(1); Taylor, Erik D.(2)	IEEE Transactions on Plasma Science		国外刊物	

826	Heat transfer performance of hollow aluminium structure filled with PCM	Zhang, Jiajie(1); Qu, Zhiguo(2); Ma, Suxia(1); Yang, Yanxia(1)	Huagong Xuebao/CIES C Journal		国外 刊物	
827	Heat transfer performances of cryogenic fluids in offset strip fin-channels considering the effect of fin efficiency	Yang, Yujie(1); Li, Yanzhong(1); Si, Biao(1); Zheng, Jieyu(1)	International Journal of Heat and Mass Transfer		国外 刊物	
828	Heat transfer prediction on film boiling of liquid hydrogen under normal gravity and microgravity environments	Wang, Lei(1); Zhu, Kang(1); Ma, Yuan(1); Xie, Fushou(1); Li, Yanzhong(1,2)	Hangkong Dongli Xuebao/Journal of Aerospace Power		国外 刊物	
829	Heavy ion micro-beam study of single-event transient (SET) in SiGe heterjunction bipolar transistor	Zhang, Jinxin(1); Guo, Hongxia(2,4); Zhang, Fengqi(4); He, Chaohui(3); Li, Pei(3); Yan, Yunyi(1); Wang, Hui(1); Zhang, Linxia(1)	Science China Information Sciences		国外 刊物	
830	High accuracy central-WENO scheme for large eddy simulations of compressible isotropic turbulence	Li, Zhen(1); Ju, Yaping(1); Zhang, Chuhua(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外 刊物	
831	High Pressure Ignition and Combustion Characteristics of Single Drop Fuel	Ma, Zhihao(1); Jia, Yi(1); Li, Zhibo(1); Zhu, Yudong(1); Chen, Zhanyao(1); Hu, Erjiang(2)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外 刊物	

832	High temperature gasification of high heating-rate chars using a flat-flame reactor	Li, Tian(1); Niu, Yanqing(2); Wang, Liang(3); Shaddix, Christopher(4); Løvås, Terese(1)	Applied Energy		国外刊物	
833	Highly efficient adsorbent design using a Cu-BTC/CuO/carbon fiber paper composite for high CH ₄ /N ₂ selectivity	Qu, Zhi-Guo(1); Wang, Hui(1); Zhang, Wen(2)	RSC Advances		国外刊物	
834	Highly Efficient Photocatalyst Based on a CdS Quantum Dots/ZnO Nanosheets 0D/2D Heterojunction for Hydrogen Evolution from Water Splitting	Ma, Dandan(1); Shi, Jian-Wen(1); Zou, Yajun(1); Fan, Zhaoyang(1); Ji, Xin(1); Niu, Chunming(1)	ACS Applied Materials and Interfaces		国外刊物	
835	Highly efficient photocatalytic H ₂ evolution using TiO ₂ nanoparticles integrated with electrocatalytic metal phosphides as cocatalysts	Song, Rui(1); Zhou, Wu(1); Luo, Bing(1); Jing, Dengwei(1)	Applied Surface Science		国外刊物	
836	Hollow MnO _x -CeO ₂ mixed oxides as highly efficient catalysts in NO oxidation	Shen, Qun(1); Zhang, Lingyun(1); Sun, Nannan(1); Wang, Hui(1); Zhong, Liangshu(1); He, Chi(2); Wei, Wei(1,3); Sun, Yuhan(1,3)	Chemical Engineering Journal		国外刊物	

837	Honeycomb-like carbon nanoflakes as a host for SnO ₂ nanoparticles allowing enhanced lithium storage performance	Wang, Hongkang(1); Wang, Jinkai(1); Cao, Daxian(1); Gu, Hangyu(1); Li, Beibei(1); Lu, Xuan(1); Han, Xiaogang(1); Rogach, Andrey L.(2); Niu, Chunming(1)	Journal of Materials Chemistry A		国外刊物	
838	HVPE of aluminum nitride, film evaluation and multiscale modeling of the growth process	Pons, M.(1,2); Su, J.(3); Chubarov, M.(1,2); Boichot, R.(1,2); Mercier, F.(1,2); Blanquet, E.(1,2); Giusti, G.(4); Pique, D.(4)	Journal of Crystal Growth		国外刊物	
839	Hybrid central–WENO scheme for the large eddy simulation of turbulent flows with shocks	Li, Zhen(1); Ju, Yaping(1); Zhang, Chuhua(1)	Numerical Heat Transfer, Part B: Fundamentals		国外刊物	
840	Hydrogen and electricity production in a light-assisted microbial photoelectrochemical cell with CaFe ₂ O ₄ photocathode	Chen, Qing-Yun(1); Zhang, Kai(1); Liu, Jian-Shan(1); Wang, Yun-Hai(2)	Journal of Photonics for Energy		国外刊物	
841	Hydrogen production from glucose by supercritical water gasification with Ni/Zr(Ce,Y)O ₂ - Δ catalysts	Huang, Jianbing(1); Lian, Xiaoyan(1,2); Wang, Li(1); Zhu, Chao(1); Jin, Hui(1); Wang, Runyu(1)	International Journal of Hydrogen Energy		国外刊物	

842	Hydrogen-rich syngas produced from the co-pyrolysis of municipal solid waste and wheat straw	Jun, Zhao(1); Shuzhong, Wang(1); Zhiqiang, Wu(1); Haiyu, Meng(1); Lin, Chen(1)	International Journal of Hydrogen Energy		国外 刊物	
843	Hydrothermal synthesis of pyramid-like In ₂ S ₃ film for efficient photoelectrochemical hydrogen generation	Feng, Xiaoyang(1); Chen, Yubin(1); Wang, Menglong(1); Guo, Liejin(1)	International Journal of Hydrogen Energy		国外 刊物	
844	Impact of H ₂ O on organic-inorganic hybrid perovskite solar cells	Huang, Jianbing(1); Tan, Shunquan(2,3); Lund, Peter D.(4); Zhou, Huanping(3)	Energy and Environmental Science		国外 刊物	
845	Improvements on Flow Distribution and Heat Transfer Performance of Plate-fin Heat Exchangers by Qusai-S Type Header Configuration	Yang, Huizhu(1); Wen, Jian(1); Gu, Xin(1); Li, Ke(1); Wang, Simin(2); Li, Yanzhong(1)	Heat Transfer Engineering		国外 刊物	
846	In situ evolution of highly dispersed amorphous CoOx clusters for oxygen evolution reaction	Chen, Dawei(1); Dong, Chung-Li(2); Zou, Yuqin(3); Su, Dong(4); Huang, Yu-Cheng(5); Tao, Li(1); Dou, Shuo(1); Shen, Shaohua(6); Wang, Shuangyin(1)	Nanoscale		国外 刊物	

847	In situ polymerization of modified graphene/polyimide composite with improved mechanical and thermal properties	Wu, Guanglei(1,2); Cheng, Yonghong(2); Wang, Zhengdong(2); Wang, Kuikui(1); Feng, Ailing(3)	Journal of Materials Science: Materials in Electronics		国外刊物	
848	In situ synthesis of C-doped TiO ₂ @g-C ₃ N ₄ core-shell hollow nanospheres with enhanced visible-light photocatalytic activity for H ₂ evolution	Zou, Yajun(1); Shi, Jian-Wen(1); Ma, Dandan(1); Fan, Zhaoyang(1); Lu, Lu(2); Niu, Chunming(1)	Chemical Engineering Journal		国外刊物	
849	Industry Development and Frontier Technology Roadmap of Thermal Power Generation	Yang, Qianpeng(1); Lin, Weijie(2); Wang, Yueming(1); He, Yaling(3)	Zhongguo Dianji Gongcheng Xuebao/Proceedings of the Chinese Society of Electrical Engineering		国外刊物	
850	Inertial particle focusing in microchannels with gradually changing geometrical structures	Fan, Liang-Liang(1); Yan, Qing(2); Guo, Jing(2); Zhao, Hong(1); Zhao, Liang(2); Zhe, Jiang(3)	Journal of Micromechanics and Microengineering		国外刊物	
851	Influence of Aging treatment on the microstructure and mechanical properties of T92/Super 304H dissimilar metal welds	Liang, Zhiyuan(1); Zhao, Qinxin(1); Deng, Jianguo(1); Wang, Yungang(1)	Materials at High Temperatures		国外刊物	

852	Influence of Biomass Reburning on NO _x Reductions during Pulverized Coal Combustion	Zhuang, Huiyong(1,2); Niu, Yanqing(3); Gong, Yanhao(3); Zhang, Yu(3); Zhang, Yanru(2); Hui, Shien(3)	Energy and Fuels		国外刊物	
853	Influence of Combustion Chamber on Natural Gas Engine Performance and Optimization	Han, Xudong(1); Huang, Zuohua(2); Chen, Qinxue(1); Yang, Qiang(1); Xiong, Jie(1); Yang, Xing(1)	Neiranji Xuebao/Transactions of CSICE (Chinese Society for Internal Combustion Engines)		国外刊物	
854	Influence of defects on flow and mass transfer in the channel with micro-fluidic chips	Li, Long(1); Yan, Xiaohong(2); Yang, Jian(1); Wang, Qiuwang(1)	Chemical Engineering Transactions		国外刊物	
855	Influence of diffuser on basic stage performance	Cheng, Chao(1,2); Qin, Guo-Liang(1); Zhang, Jia-Zhong(1); Chen, Dang-Min(2); Li, Xin-Hong(2)	Hangkong Dongli Xuebao/Journal of Aerospace Power		国外刊物	
856	Influence of geometrical modeling on the results of numerical prediction for the centrifugal compressor with shrouded impeller	Tang, Yonghong(1); Tian, Yubao(1); Wang, Zhiheng(1); Xi, Guang(1)	Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica		国外刊物	

857	Influence of Small-Molecule Oxygenous Fuel on Soot Precursor from n-Heptane Combustion	Wang, Ying(1); Ke, Xichun(1); Guo, Chunlan(1); Shen, Zhenxing(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外 刊物	
858	Insight into carrier transportation and hydrogen production activity of two novel morphological CdS films	Jiang, Jiangang(1,2); Ren, Wenyi(1); Chen, Yubin(2); Du, Guangyuan(1); Guo, Liejin(2)	International Journal of Hydrogen Energy		国外 刊物	
859	Insight into the fabrication and perspective of dendritic Ag nanostructures	Cai, Wen-Fang(1); Pu, Kai-Bo(1); Ma, Qian(1); Wang, Yun-Hai(1)	Journal of Experimental Nanoscience		国外 刊物	
860	Integration between supercritical CO ₂ Brayton cycles and molten salt solar power towers: A review and a comprehensive comparison of different cycle layouts	Wang, Kun(1); He, Ya-Ling(1); Zhu, Han-Hui(1)	Applied Energy		国外 刊物	
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862	Interface tailoring for charge injection control in polyethylene	Teyssedre, G.(1); Li, S.T.(2); Makasheva, K.(1); Zhao, N.(2); Milliere, L.(1); Laurent, C.(1)	IEEE Transactions on Dielectrics and Electrical Insulation		国外 刊物	

863	Investigation of coalesced droplet vertical jumping and horizontal moving on textured surface using the lattice Boltzmann method	Shi, Y.(1,2); Tang, G.H.(2)	Computers and Mathematics with Applications		国外刊物	
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865	Investigation of engines radiator heat recovery using different shapes of nanoparticles in H ₂ O/(CH ₂ OH) ₂ based nanofluids	Hatami, M.(2); Jafaryar, M.(3); Zhou, J.(1); Jing, D.(1)	International Journal of Hydrogen Energy		国外刊物	
866	Investigation of heat transfer and thermal stress during sapphire crystal growth process by heat exchanger method: Evaluation of radiation models	Ma, Wencheng(1); Liu, Lijun(1)	Journal of Crystal Growth		国外刊物	
867	Investigation of Hot Jet Effect on Detonation Initiation Characteristics	Wang, Zhiwu(1); Zhang, Yang(1,2); Chen, Xinggu(3); Liang, Zijian(1); Zheng, Longxi(1)	Combustion Science and Technology		国外刊物	
868	Investigation of the optimal intermediate water temperature in a combined r134a and transcritical CO ₂ heat pump for space heating	Song, Yulong(1); Li, Dongzhe(1); Cao, Feng(1); Wang, Xiaolin(2)	International Journal of Refrigeration		国外刊物	

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955	Optimization for Compressor Crankshaft by Multi-Body Dynamics Analysis Method	Wang, Feng(1); Chen, Zheng(1); Li, Hua(1); Feng, Jianmei(2)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
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958	Optimization on the performance of ground heat exchangers for GSHP using Kriging model based on MOGA	Pu, Liang(1); Qi, Di(1); Xu, Lingling(1); Li, Yanzhong(1)	Applied Thermal Engineering		国外刊物	
959	Overall and local effects of operating conditions in PEM fuel cells with dead-ended anode	Yang, Yupeng(1); Zhang, Xu(1); Guo, Liejin(1); Liu, Hongtan(2)	International Journal of Hydrogen Energy		国外刊物	
960	Parallel compatible transition closure model for high-speed transitional flow	Xu, Jiakuan(1); Bai, Junqiang(1); Fu, Ziyuan(1); Qiao, Lei(1); Zhang, Yang(2); Xu, Jinglei(3)	AIAA Journal		国外刊物	
961	Parametric evaluation and performance comparison of a modified CO ₂ transcritical refrigeration cycle in air-conditioning applications	Wang, Zhe(1,3); Han, Fenghui(2); Sundén, Bengt(1)	Chemical Engineering Research and Design		国外刊物	
962	Partial Decomposition for Distributed Electric Vehicle Charging Control Considering Electric Power Grid Congestion	Shao, Chengcheng(1); Wang, Xifan(1); Shahidehpour, Mohammad(2,3); Wang, Xiuli(1); Wang, Biyang(1)	IEEE Transactions on Smart Grid		国外刊物	

963	Particle aggregation behavior during photocatalytic ethanol reforming reaction and its correlation with the activity of H ₂ production	Luo, Bing(1); Song, Rui(1); Jing, Dengwei(1)	Colloids and Surfaces A: Physicochemical and Engineering Aspects		国外刊物	
964	Particle aspect of thermal science and engineering	Wen, Dongsheng(1,2); Guo, Liejin(3)	Applied Thermal Engineering		国外刊物	
965	Performance comparison between the combined R134a/CO ₂ heat pump and cascade R134a/CO ₂ heat pump for space heating	Song, Yulong(1); Li, Dongzhe(1); Yang, Dongfang(1); Jin, Lei(1); Cao, Feng(1); Wang, Xiaolin(2)	International Journal of Refrigeration		国外刊物	
966	Performance Evaluation of Plate-Fin Heat Exchanger Considering Effect of Axial Heat Conduction	Kang, Rui(1); Li, Yanzhong(1); Yang, Yujie(1); Wang, Zhe(1); Si, Biao(1); Zheng, Jieyu(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
967	Performance evolution on a dual-temperature CO ₂ transcritical refrigeration cycle with two cascade ejectors	Bai, Tao(1); Yan, Gang(1); Yu, Jianlin(1)	Applied Thermal Engineering		国外刊物	
968	Performance investigation of a pressure pulsation dampener applied in the discharge chamber of a twin screw refrigeration compressor	Wu, Xiaokun(1); Xing, Ziwen(1); Chen, Wenqing(2); Wang, Xiaolin(3)	International Journal of Refrigeration		国外刊物	

969	Performance of CO ₂ absorption in a diameter-varying spray tower	Wu, Xiaomei(1,2); Yu, Yunsong(1); Qin, Zhen(1,2); Zhang, Zaoxiao(1,2)	Chinese Journal of Chemical Engineering		国外刊物	
970	Performance optimization of a transcritical CO ₂ refrigeration system using a controlled ejector	He, Yang(1); Deng, Jianqiang(1); Zheng, Lixing(1); Zhang, Zaoxiao(1)	International Journal of Refrigeration		国外刊物	
971	Photodecomposition of NO _x on Ag/TiO ₂ composite catalysts in a gas phase reactor	Xu, Mengxi(1,2); Wang, Yunhai(2); Geng, Jiafeng(1); Jing, Dengwei(1)	Chemical Engineering Journal		国外刊物	
972	Physico-chemical properties and gasification reactivity of co-pyrolysis char from different rank of coal blended with lignocellulosic biomassEffects of the cellulose	Wu, Zhiqiang(1,2); Wang, Shuzhong(2); Luo, Zhengyuan(3); Chen, Lin(2); Meng, Haiyu(2); Zhao, Jun(2)	Bioresource Technology		国外刊物	
973	Physicochemical structure and gasification reactivity of co-pyrolysis char from two kinds of coal blended with lignocellulosic biomass: Effects of the carboxymethylcellulose sodium	Wu, Zhiqiang(1); Yang, Wangcai(1); Meng, Haiyu(2); Zhao, Jun(2); Chen, Lin(2); Luo, Zhengyuan(3); Wang, Shuzhong(2)	Applied Energy		国外刊物	

974	POD-Galerkin reduced-order model for viscoelastic turbulent channel flow	Chen, Jingjing(1); Han, Dongxu(2); Yu, Bo(2); Sun, Dongliang(2); Wei, Jinjia(3)	Numerical Heat Transfer, Part B: Fundamentals		国外 刊物	
975	Porous MnOx for low-temperature NH3-SCR of NOx: the intrinsic relationship between surface physicochemical property and catalytic activity	Shi, Jian-Wen(1); Gao, Chen(1); Liu, Chang(1); Fan, Zhaoyang(1); Gao, Ge(1); Niu, Chunming(1)	Journal of Nanoparticle Research		国外 刊物	
976	Porous YFe _{0.5} Co _{0.5} O ₃ thin sheets as cathode for intermediate-temperature solid oxide fuel cells	Cui, Jiajia(1); Wang, Junkai(2); Fan, Weiwei(2); Wan, Yiheng(2); Zhang, Xiongwen(1); Li, Guojun(1); Wu, Kai(2); Cheng, Yonghong(2); Zhou, Jun(2)	International Journal of Hydrogen Energy		国外 刊物	
977	Power System Economic Dispatch Considering Steady-State Secure Region for Wind Power	Shao, Chengcheng(1); Wang, Xifan(1); Shahidehpour, Mohammad(2,3) ; Wang, Xiuli(1); Wang, Biyang(1)	IEEE Transactions on Sustainable Energy		国外 刊物	
978	Preliminary System Design and Off-Design Analysis for a Gas Turbine and ORC Combined Cycle	Cao, Yue(1); Dai, Yiping(1)	Journal of Energy Engineering		国外 刊物	

979	Preparation of boz/glass fibers/cyanate ester resins laminated composites	Wang, Yiqun(1); Kou, Kaichang(1); Zhuo, Longhai(1); Wu, Guanglei(2)	Polymer Composites		国外刊物	
980	Product-based Carbon Constraint Energy Planning with pinch analysis for sustainable methanol industry in China	Qin, Zhen(1,2); Tang, Kai(1,2); Wu, Xiaomei(1,2); Yu, Yunsong(1); Zhang, Zaoxiao(1,2)	Chemical Engineering Transactions		国外刊物	
981	Products distribution and influence of nickel catalyst on glucose hydrothermal decomposition	Yin, Jiarong(1); Cheng, Zening(1); Guo, Liejin(1); Li, Sha(1); Jin, Hui(1)	International Journal of Hydrogen Energy		国外刊物	
982	Profile of huge wave in gas-liquid churn flow	Wang, Ke(1,2); Ye, Jing(3); Bai, Bofeng(2)	Chemical Engineering Science		国外刊物	
983	Properties of novel BZCY-(Li/Na) ₂ CO ₃ composite electrolytes for LT-SOFC	Wu, Guochun(1,2); Wang, Cheng(1); Hei, Yuanfei(3); Huang, Jianbing(3); Wang, Xiaomin(2); Mao, Zongqiang(1)	Xiyou Jinshu Cailiao Yu Gongcheng/Rare Metal Materials and Engineering		国外刊物	
984	Pulsed laser-deposited n-Si/NiOx photoanodes for stable and efficient photoelectrochemical water splitting	He, Lingyun(1); Zhou, Wu(1); Cai, Dongping(1); Mao, Samuel S.(2,3); Sun,	Catalysis Science and Technology		国外刊物	

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986	Rapid pyrolysis and CO ₂ gasification of anthracite at high temperature	Zha, Qiongliang(1); Zhao, Jing(1); Wang, Chang'an(1); Che, Defu(1)	Journal of the Energy Institute		国外 刊物	
987	Rational design of CdS@ZnO core-shell structure via atomic layer deposition for drastically enhanced photocatalytic H ₂ evolution with excellent photostability	Ma, Dandan(1); Shi, Jian-Wen(1); Zou, Yajun(1); Fan, Zhaoyang(1); Ji, Xin(1); Niu, Chunming(1); Wang, Lianzhou(2)	Nano Energy		国外 刊物	
988	Rationally Designed Porous MnO _x -FeO _x Nanoneedles for Low-Temperature Selective Catalytic Reduction of NO _x by NH ₃	Fan, Zhaoyang(1); Shi, Jian-Wen(1); Gao, Chen(1); Gao, Ge(1); Wang, Baorui(1); Niu, Chunming(1)	ACS Applied Materials and Interfaces		国外 刊物	

989	Real-time minimization of power consumption for air-source transcritical CO ₂ heat pump water heater system	Hu, Bin(1); Li, Yaoyu(2); Wang, R.Z.(1); Cao, Feng(3); Xing, Ziwen(3)	International Journal of Refrigeration		国外刊物	
990	Reliability Modelling and Evaluation of MMCs under Different Redundancy Schemes	Guo, Jingli(1); Wang, Xiuli(2); Liang, Jun(3); Pang, Hui(4); Goncalves, Jorge(5)	IEEE Transactions on Power Delivery		国外刊物	
991	Research on Characteristic of Pressure Oscillation for Submerged Steam Jet With Variable Mass Flux	Wang, Lu-Tao(1); Zhao, Quan-Bin(1); Wang, Ying-Chun(1); Chong, Dao-Tong(1); Chen, Wei-Xiong(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
992	Research on product value of wheel diameter and rotational speed — A new design parameter for micro radial turbines	Fu, Lei(1); Li, Guojun(1)	Archives of Civil and Mechanical Engineering		国外刊物	
993	Research on reactor safety analysis method due to thermal system change of secondary circuit	Zhang, Zhao(1,2); Tang, Qi(3); Wei, Yanhui(3); Shen, Rongfa(1); Sheng, Guolong(1); Yan, Junjie(2); Chong, Daotong(2)	Hedongli Gongcheng/Nuclear Power Engineering		国外刊物	

994	Research on the characteristic of second dominant frequency of pressure oscillation for supersonic steam jet	Wang, Ying-Chun(1); Chen, Wei-Xiong(1); Zhao, Quan-Bin(1); Qiu, Bin-Bin(1); Zhong, Dao-Tong(1); Yan, Jun-Jie(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
995	Research on wet air oxidation of high-chloride chemical wastewaters and economic analysis	Li, Yanhui(1); Wang, Shuzhong(1); Sun, Panpan(1); Yang, Chuang(1); Wang, Laisheng(1); Zhang, Tuo(1); Guo, Yang(1)	Huagong Jinzhan/Chemical Industry and Engineering Progress		国外刊物	
996	Research on Zeotropic Mixtures as Working Fluid of High Temperature Heat Pump for Waste Heat Recovery	Yang, Wei-Wei(1); Zhou, Fu(1); Yan, Fei-Yu(1); He, Ya-Ling(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
997	Resonant energy transfer under the influence of the evanescent field from the metal	Poudel, Amrit(1); Chen, Xin(2); Ratner, Mark A.(1)	Journal of Chemical Physics		国外刊物	
998	Review on Research of Heat Transfer Performance for Gas Turbine Blade Cooling Channel	Xie, Yonghui(1); Jing, Qi(1); Zhang, Di(1); Shen, Zhongyang(1); Jiang, Wei(1)	Zhongguo Dianji Gongcheng Xuebao/Proceedings of the Chinese Society of Electrical Engineering		国外刊物	

999	Sandwiched epoxy–alumina composites with synergistically enhanced thermal conductivity and breakdown strength	Wang, Zhengdong(1); Cheng, Yonghong(1); Wang, Hongkang(1); Yang, Mengmeng(1); Shao, Yingyu(1); Chen, Xin(1); Tanaka, Toshikatsu(2)	Journal of Materials Science		国外刊物	
1000	Selective stabilization and photophysical properties of metastable perovskite polymorphs of CsPbI ₃ in Thin Films	Fu, Yongping(1); Rea, Morgan T.(1); Chen, Jie(1,2); Morrow, Darien J.(1); Hautzinger, Matthew P.(1); Zhao, Yuzhou(1); Pan, Dongxu(1); Manger, Lydia H.(1); Wright, John C.(1); Goldsmith, Randall H.(1); Jin, Song(1)	Chemistry of Materials		国外刊物	
1001	Self-healing SEI enables full-cell cycling of a silicon-majority anode with a coulombic efficiency exceeding 99.9%	Jin, Yang(1,2,3); Li, Sa(4); Kushima, Akihiro(2); Zheng, Xiaoquan(1); Sun, Yongming(3); Xie, Jin(3); Sun, Jie(3); Xue, Weijiang(2); Zhou, Guangmin(3);	Energy and Environmental Science		国外刊物	

		Wu, Jiang(1); Shi, Feifei(3); Zhang, Rufan(3); Zhu, Zhi(2); So, Kangpyo(2); Cui, Yi(3,5); Li, Ju(2,4)				
1002	Simulated identification on dynamic characteristics of large heavy-load bearing	Ouyang, Wu(1); Peng, Lin(2); Chen, Runlin(3); Yuan, Xiaoyang(4)	Journal of Vibroengineeri ng		国外 刊物	
1003	Simulation and analytical validation of forced convection inside open-cell metal foams	Liu, H.(1); Yu, Q.N.(1); Qu, Z.G.(2); Yang, R.Z.(1)	International Journal of Thermal Sciences		国外 刊物	
1004	Simulation investigation on the design and operation strategy of a 660 MW coal-fired power plant coupled with a steam ejector to ensure NOx reduction ability	Chen, Weixiong(1); Li, Bingxin(2); Zhang, Shuangping(1); Liu, Ming(1); Liu, Jiping(2)	Applied Thermal Engineering		国外 刊物	
1005	Simulation of real time particle deposition and removal processes on tubes by coupled numerical method	Tong, Zi-Xiang(1); Li, Ming-Jia(1); He, Ya-Ling(1); Tan, Hou-Zhang(1)	Applied Energy		国外 刊物	
1006	Simulation on fuzzy control of steam temperature for a lignite-fired boiler	Wang, Bing-Qi(1); Han, Xiao-Qu(1); Zhang, Cheng(1); Zhou, Yan(1); Yan, Jun-Jie(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysic s		国外 刊物	

1007	Simulation on the Influence of a 660 MW Unit Load-up Processes on Denitrification and Particle Removal	Zhang, Shuang-Ping(1); Li, Bing-Xin(1); Zhao, Kai(1); Chen, Wei-Xiong(1); Yan, Jun-Jie(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
1008	Simulation study of interaction mechanism between peptide and asymmetric membrane	He, X.C.(1,2); Qu, Z.G.(1,2); Xu, F.(2,3)	Molecular Simulation		国外刊物	
1009	Simulation study on 660 MW coal-fired power plant coupled with a steam ejector to ensure NOx reduction ability	Chen, Weixiong(1); Zhang, Guozhu(2); Li, Bingxin(3); Liu, Ming(1); Liu, Jiping(3)	Applied Thermal Engineering		国外刊物	
1010	Spatial charge separation of one-dimensional Ni ₂ P-Cd _{0.9} Zn _{0.1} S/g-C ₃ N ₄ heterostructure for high-quantum-yield photocatalytic hydrogen production	Qin, Zhixiao(1); Xue, Fei(1); Chen, Yubin(1); Shen, Shaohua(1); Guo, Liejin(1)	Applied Catalysis B: Environmental		国外刊物	
1011	Speed Matching for Second Impeller with Equal Power of Two-Stage Impellers of Counter-Rotating Fan	Ai, Zijian(1,2); Qin, Guoliang(1); Lin, Jingxiang(1); Chen, Xuefei(1); He, Wenqiang(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
1012	Sphere-Shaped Mn ₃ O ₄ Catalyst with Remarkable Low-Temperature Activity for Methyl-Ethyl-Ketone Combustion	Pan, Hua(1); Jian, Yanfei(1); Chen, Changwei(1); He, Chi(1,2); Hao, Zhengping(3); Shen,	Environmental Science and Technology		国外刊物	

		Zhenxing(1); Liu, Hongxia(1)				
1013	Stability Analysis for Fully Hydrodynamic Gas-Lubricated Protuberant Foil Bearings in High Speed Turbomachinery	Wang, Wei(1); Li, Xiaojiang(2); Zeng, Qiang(2); Lou, Fang(2); Lai, Tianwei(1); Hou, Yu(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外 刊物	
1014	Structural Optimization of Shell-Tube Heat Exchanger with Helical Baffles Based on Fluid-Structure Interaction	Wang, Si-Min(1); Xiao, Juan(1); Wang, Jia-Rui(1); Jian, Guan-Ping(1); Gu, Xin(2); Wen, Jian(2)	Gao Xiao Hua Xue Gong Cheng Xue Bao/Journal of Chemical Engineering of Chinese Universities		国外 刊物	
1015	Structure and properties of microwave transparent crosslinked polystyrene prepared through 3D printing bulk polymerization	Chen, Yuanwu(1,2); Mao, Jiale(2,3); Zhu, Yejun(2); Zhang, Kai(2); Wu, Gangpeng(2); Wu, Jingshen(2); Zhang, Haiyan(1)	Journal of Applied Polymer Science		国外 刊物	
1016	Study of ash fouling on the blade of induced fan in a 330 MW coal-fired power plant with ultra-low pollutant emission	Wang, Yibin(1); Tan, Houzhang(1); Dong, Kun(2); Liu, Hexin(1); Xiao, Jiafan(1); Zhang, Junjie(2)	Applied Thermal Engineering		国外 刊物	

1017	Study on correlations of coal chemical properties based on database of real-time data	Wang, Chang'an(1); Wu, Song(1); Lv, Qiang(1); Liu, Xuan(1); Chen, Wufeng(1); Che, Defu(1)	Applied Energy		国外刊物	
1018	Study on Heat Recovery System of Coal-Fired Power Plant Integrated With SCO ₂ Power Cycle	Liu, Ming(1); Zhang, Xu-Wei(1); Wang, Chao-Yang(1); Li, Gen(1); Yan, Jun-Jie(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	
1019	Study on Mercury Migration in the Process of Activated Coke Desulfuration	Li, Yang(1); Che, Defu(2); Yang, Chenglong(1); Cheng, Guangwen(2); Cai, Ming(1); Nie, Jianping(1)	Zhongguo Dianji Gongcheng Xuebao/Proceedings of the Chinese Society of Electrical Engineering		国外刊物	
1020	Study on performances of supercritical CO ₂ recompression Brayton cycles with multi-objective optimization	Deng, Q.H.(1); Wang, D.(1); Zhao, H.(1); Huang, W.T.(1); Shao, S.(1); Feng, Z.P.(1)	Applied Thermal Engineering		国外刊物	
1021	Study on subcooled technology for cryogenic propellants	Xie, Fu-Shou(1); Li, Yan-Zhong(1,2); Wang, Lei(1); Lei, Gang(2); Xing, Ke-Wei(2)	Hangkong Dongli Xuebao/Journal of Aerospace Power		国外刊物	
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1024	Study on the mercury emission and transformation in an ultra-low emission coal-fired power plant	Zhao, Shilin(1); Duan, Yufeng(1); Yao, Ting(1); Liu, Meng(1); Lu, Jianhong(1); Tan, Houzhang(2); Wang, Xuebin(2); Wu, Lituo(3)	Fuel		国外刊物	
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1026	Sulfur Transformation Characteristics and Mechanisms during Hydrogen Production by Coal Gasification in Supercritical Water	Liu, Shanke(1); Li, Linhu(1); Guo, Liejin(1); Jin, Hui(1); Kou, Jiajing(1); Li, Guoliang(1)	Energy and Fuels		国外刊物	
1027	Summary and evaluation on the heat transfer enhancement techniques of gas laminar and turbulent pipe flow	Ji, Wen-Tao(1,2); Jacobi, Anthony M.(2); He, Ya-Ling(1); Tao, Wen-Quan(1)	International Journal of Heat and Mass Transfer		国外刊物	
1028	Supercritical water synthesis of nano-particle catalyst on TiO ₂ and its application in supercritical water gasification of biomass	Jin, Hui(1); Zhao, Xiao(1); Wu, Zhenqun(1); Cao, Changqing(1);	Journal of Experimental Nanoscience		国外刊物	

		Guo, Liejin(1)				
1029	Supercritical water upgrading of water-insoluble and water-soluble biocrudes from hydrothermal liquefaction of Nannochloropsis microalgae	Xu, Donghai(1,2); Savage, Phillip E.(2,3)	Journal of Supercritical Fluids		国外刊物	
1030	Surface treatment effect on the photocatalytic hydrogen generation of CdS/ZnS core-shell microstructures	Su, Jinzhan(1); Zhang, Tao(1); Wang, Lu(1); Shi, Jinwen(1); Chen, Yubin(1)	Chinese Journal of Catalysis		国外刊物	
1031	Synthesis of NiS/carbon composites as anodes for high-performance sodium-ion batteries	Wang, Jinkai(1,2); Cao, Daxian(1); Yang, Guidong(3); Yang, Yaodong(2); Wang, Hongkang(1)	Journal of Solid State Electrochemistry		国外刊物	
1032	System Design and Theoretical Analysis of Lignite-fired CHP Based on Lignite Pre-drying and Waste Heat Recovery from Dryer Exhaust	Yao, Wei(1); Wang, Zhichao(1); Tu, Jingyi(1); Liu, Ming(2); Yan, Junjie(2)	Zhongguo Dianji Gongcheng Xuebao/Proceedings of the Chinese Society of Electrical Engineering		国外刊物	

1033	Temperature and thermal stress evolutions in sapphire crystal during the cooling process by heat exchanger method	Ma, Wencheng(1); Zhao, Wenhan(1); Wu, Ming(1); Ding, Guoqiang(2); Liu, Lijun(1)	Journal of Crystal Growth		国外刊物	
1034	Templated self-assembly of one-dimensional CsPbX ₃ perovskite nanocrystal superlattices	Pan, Aizhao(1,2); Jurow, Matthew(2,3); Zhao, Yanrui(1); Qiu, Fen(2); Liu, Ya(3,4); Yang, Juan(3); Urban, Jeffrey J.(2); He, Ling(1); Liu, Yi(2,3)	Nanoscale		国外刊物	
1035	The Comparative Study of Detonation Initiation Performance of Three Successive Ignitions and Obstacles	Wang, Zhiwu(1); Wang, Yaqi(1); Zhang, Yang(2); Liu, Xing(1); Zheng, Longxi(1)	Xibei Gongye Daxue Xuebao/Journal of Northwestern Polytechnical University		国外刊物	
1036	The development technology and applications of supercritical CO ₂ power cycle in nuclear energy, solar energy and other energy industries	Li, Ming-Jia(1,2); Zhu, Han-Hui(1); Guo, Jia-Qi(1); Wang, Kun(1); Tao, Wen-Quan(1)	Applied Thermal Engineering		国外刊物	
1037	The effect of chemical functionalisation on nanoporous energy absorption system	Pu, Jinhuan(1); Li, Guangxi(2); Tang, Guihua(1); Sun, Haoyu(1); Niu, Dong(1)	Molecular Simulation		国外刊物	

1038	The effect of coating layer in liquid–solid impact problem	Huang, Shan(1); Zhou, Qulan(1); Li, Na(1); Teng, Zhaohui(1); Yin, Huaqiang(2)	International Journal of Mechanical Sciences		国外 刊物	
1039	The Influence of Critical Flow Velocity on Corrosion of Stainless Steel	Li, Zhen(1); Zhang, Jiding(1); Cheng, Jiarui(2)	Journal of Failure Analysis and Prevention		国外 刊物	
1040	The Investigation of the Flow Characteristics Inside the Vaned Diffuser at Small Flow Rate	Zhao, Jia-Yi(1); Wang, Zhi-Heng(1); Li, Xue-Chen(2); Zhao, Yang(1); Xi, Guang(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysic s		国外 刊物	
1041	The study on interface characteristics near the metal wall by a molecular dynamics method	Chen, Lei(1); Chen, Peng-Fei(1); Li, Zhong-Zhen(1); He, Ya-Ling(1); Tao, Wen-Quan(1)	Computers and Fluids		国外 刊物	
1042	Theoretical analysis of ejector refrigeration system performance under overall modes	Chen, Weixiong(1); Shi, Chaoyin(1); Zhang, Shuangping(1); Chen, Huiqiang(1); Chong, Daotong(1); Yan, Junjie(1)	Applied Energy		国外 刊物	
1043	Theoretical and DSMC Studies on Heat Conduction of Gas Confined in a Cuboid Nanopore	Zhu, Chuan-Yong(1); Li, Zeng-Yao(1); Tao, Wen-Quan(1)	Journal of Heat Transfer		国外 刊物	

1044	Theoretical study of a high-temperature heat pump system composed of a CO ₂ transcritical heat pump cycle and a R152a subcritical heat pump cycle	Yang, Wei-wei(1); Cao, Xing-qi(1); He, Ya-ling(1); Yan, Fei-yu(1)	Applied Thermal Engineering		国外刊物	
1045	Thermal analysis of solar central receiver tube with porous inserts and non-uniform heat flux	Zheng, Zhang-Jing(1); Li, Ming-Jia(1); He, Ya-Ling(1)	Applied Energy		国外刊物	
1046	Thermal Conductivity of M@C82[M = Dy, Gd] Thin Films	Mondal, Trisha(1); Tripathi, Ajay(1); Zhang, Jinying(2); Shripathi, Thoudinja(3); Shinohara, Hisanori(4); Tiwari, Archana(1)	Journal of Physical Chemistry C		国外刊物	
1047	Thermal performance analysis of a parabolic trough solar collector using supercritical CO ₂ as heat transfer fluid under non-uniform solar flux	Qiu, Yu(1); Li, Ming-Jia(1); He, Ya-Ling(1); Tao, Wen-Quan(1)	Applied Thermal Engineering		国外刊物	
1048	Thermal Performance of Miniscale Heat Sink with Jet Impingement and Dimple/Protrusion Structure	Shen, Zhongyang(1); Jing, Qi(2); Xie, Yonghui(1); Zhang, Di(2)	Journal of Heat Transfer		国外刊物	
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1050	Thermal removal of COD and NH ₃ N from Lurgi coal-gasification wastewater	Zhang, Wei(1); Wang, Chang'an(1); Li, Guangyu(1); Liu, Yinhe(1); Che, Defu(1)	Environmental Progress and Sustainable Energy		国外刊物	
1051	Thermodynamic analysis and comparison for different direct-heated supercritical CO ₂ Brayton cycles integrated into a solar thermal power tower system	Zhu, Han-Hui(1); Wang, Kun(1); He, Ya-Ling(1)	Energy		国外刊物	
1052	Thermodynamic analysis and optimization of a gas turbine and cascade CO ₂ combined cycle	Cao, Yue(1); Ren, Jingqi(1); Sang, Yiqian(1); Dai, Yiping(1)	Energy Conversion and Management		国外刊物	
1053	Thermodynamic analysis and optimization of a molten salt solar power tower integrated with a recompression supercritical CO ₂ Brayton cycle based on integrated modeling	Wang, Kun(1); He, Ya-Ling(1)	Energy Conversion and Management		国外刊物	
1054	Thermodynamic analysis and optimization of multistage latent heat storage unit under unsteady inlet temperature based on entransy theory	Liu, Y.K.(1); Tao, Y.B.(1)	Applied Energy		国外刊物	
1055	Thermodynamic Analysis of Brayton Cycles Using Supercritical Carbon Dioxide and its Mixture as Working Fluid	Guo, Jia-Qi(1); Wang, Kun(1); Zhu, Han-Hui(1); He, Ya-Ling(1)	Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics		国外刊物	

1056	Thermodynamic study of main compression intercooling effects on supercritical CO ₂ recompression Brayton cycle	Ma, Yuegeng(1); Liu, Ming(2); Yan, Junjie(2); Liu, Jiping(1)	Energy		国外刊物	
1057	Thermo-Hydraulic Performance Evaluation, Field Synergy, and Entransy Dissipation Analysis for Hexagon-Like and Circular-Like Pin Finned Tube Bundles	Tian, En(1); He, Ya-Ling(1); Tao, Wen-Quan(1)	Heat Transfer Engineering		国外刊物	
1058	Three-dimensional lattice Boltzmann models for solid-liquid phase change	Li, Dong(1); Tong, Zi-Xiang(1); Ren, Qinlong(1); He, Ya-Ling(1); Tao, Wen-Quan(1)	International Journal of Heat and Mass Transfer		国外刊物	
1059	Time-Space Coupled Spectral Element Method for Acoustic Wave Propagation on a Rigid Cylinder	Wang, Yazhou(1); Qin, Guoliang(1); Bao, Zhenzhong(1); He, Wenqiang(1); Mu, Yiwei(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
1060	Time-space coupled spectral element method for one-dimensional burgers equation	Wang, Yazhou(1); Qin, Guoliang(1); He, Wenqiang(1); Bao, Zhenzhong(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
1061	Torsional-longitudinal shock responses of a ship propulsion shaft system	Yang, Yi(1); Wang, Xurong(1); Wang, Mingkun(1); Wu, Yi(1); Dai, Yiping(1)	Zhendong yu Chongji/Journal of Vibration and Shock		国外刊物	

1062	Toward the enhancement of activity and stability of CdXZn1-XS photocatalyst for solar hydrogen production	Yang, Yan(1); Liu, Maochang(1); Wei, Qingyu(1); Li, Jianfeng(1); Zhao, Liang(1)	International Journal of Hydrogen Energy		国外 刊物	
1063	Transformation and release of potassium during fixed-bed pyrolysis of biomass	Deng, Lei(1); Ye, Jiaming(1); Jin, Xi(1); Che, Defu(1)	Journal of the Energy Institute		国外 刊物	
1064	Transient spray cooling: Similarity of dynamic heat flux for different cryogenes, nozzles and substrates	Tian, Jia-Meng(1); Chen, Bin(1); Li, Dong(1); Zhou, Zhi-Fu(1)	International Journal of Heat and Mass Transfer		国外 刊物	
1065	Transport properties of SiO2/H2O solid-gas system for industrial flue gas: A molecular dynamics study	Yu, Yinsheng(1); Tao, Yubing(1); He, Yaling(1)	International Journal of Heat and Mass Transfer		国外 刊物	
1066	Two-Phase Flow Resistance and Interfacial Drag in Packed Beds	Zou, Xumao(1); Li, Liangxing(1); Kong, Liubo(1); Wang, Huasheng(1)	Shanghai Jiaotong Daxue Xuebao/Journal of Shanghai Jiaotong University		国外 刊物	
1067	Uncertainty Quantification of Cascade Manufacturing Error Based Non-Stationary Gaussian Process	Yan, Yong(1); Zhu, Pei-Yuan(1); Song, Li-Ming(1); Li, Jun(1); Feng, Zhen-Ping(1)	Tuijin Jishu/Journal of Propulsion Technology		国外 刊物	

1068	Unsteady-state bubble dynamic wave velocity of gas–solid bubbling fluidized bed	Wei, Liping(1,2,3); Lu, Youjun(4); Jiang, Guodong(1,2,3); Hu, Jun(1,2,3); Zhu, Jianbo(1,2,3)	Chemical Engineering Research and Design		国外刊物	
1069	Utilization of NiO/porous ceramic monolithic catalyst for upgrading biomass fuel gas	Quan, Cui(1,2); Gao, Ningbo(1,2); Wu, Chunfei(2)	Journal of the Energy Institute		国外刊物	
1070	Viscosity Measurement of Aviation Kerosene RP-3 Using a Double-Capillary Viscometer with Equal Mass Flow	Feng, Song(1); Bi, Qincheng(1); Liu, Zhaohui(1); Pan, Hui(1); Cao, Dongdong(1)	Hsi-An Chiao Tung Ta Hsueh/Journal of Xi'an Jiaotong University		国外刊物	
1071	W ion implantation boosting visible-light photoelectrochemical water splitting over ZnO nanorod arrays	Cai, Li(1); Zhou, Wu(1); Ren, Feng(2); Chen, Jie(1); Cai, Guangxu(2); Liu, Yichao(2); Guan, Xiangjiu(1); Shen, Shaohua(1,3,4)	Journal of Photonics for Energy		国外刊物	
1072	Waste heat and water recovery characteristics of heat exchangers for dryer exhaust	Qin, Yuanzhi(1); Fu, Hao(1); Wang, Jinshi(1); Liu, Ming(1); Yan, Junjie(1)	Drying Technology		国外刊物	

1073	WO ₃ /g-C ₃ N ₄ composites: One-pot preparation and enhanced photocatalytic H ₂ production under visible-light irradiation	Cheng, Cheng(1); Shi, Jinwen(1); Hu, Yuchao(1); Guo, Liejin(1)	Nanotechnolo gy		国外 刊物	
1074	Working characteristic modeling and analysis for single screw compressor with multicolumn envelope meshing pair	Wang, Zengli(1); Shen, Yingfeng(1); Wang, Zhenbo(1); Wang, Jun(1); Feng, Quanke(2)	Huagong Xuebao/CIES C Journal		国外 刊物	
1075	Zinc ferrite composite material with controllable morphology and its applications	Qin, Ming(1); Shuai, Qin(1); Wu, Guanglei(3); Zheng, Bohan(4); Wang, Zhengdong(5); Wu, Hongjing(2)	Materials Science and Engineering B: Solid-State Materials for Advanced Technology		国外 刊物	
1076	ZnCr LDH nanosheets modified graphitic carbon nitride for enhanced photocatalytic hydrogen production	Luo, Bing(1); Song, Rui(1); Jing, Dengwei(1)	International Journal of Hydrogen Energy		国外 刊物	

注：(1) 论文、专著均限于教学研究、学术论文或专著，一般文献综述及一般教材不填报。请将有示范中心署名的论文、专著依次以国外刊物、国内重要刊物，外文专著、中文专著为序分别填报，并在类型栏中标明。单位为篇或册。(2) 国外刊物：指在国外正式期刊发表的原始学术论文，国际会议一般论文集论文不予统计。(3) 国内重要刊物：指中国科学院文献情报中心建立的中国科学引文数据库(简称 CSCD) 核心库来源期刊 (<http://www.las.ac.cn>)，同时可对国内发行的

英文版学术期刊论文进行填报，但不得与中文版期刊同内容的论文重复。(4) 外

文专著：正式出版的学术著作。(5) 中文专著：正式出版的学术著作，不包括译

著、实验室年报、论文集等。(6) 作者：所有作者，以出版物排序为准。

3.仪器设备的研制和改装情况

序号	仪器设备名称	自制或改装	开发的功能和用途 (限 100 字以内)	研究成果 (限 100 字以内)	推广和应用的高校
1	饱和蒸气压测量实验台	自制	可测量流体的饱和蒸气压。测量温度范围： $-10\sim 200\text{ }^{\circ}\text{C}$ ，压力范围： $0\sim 10\text{ MPa}$ ，测量每个温度点仅需要 10 分钟时间，无恒温槽，占地极小，可自行拆装，锻炼学生动手能力。	研制出饱和蒸气压测量实验台一套，申请发明专利 1 项，发表教改论文一篇。	
2	压力表校验及压力传感器标定实验台	改装	将压力传感器由石英压电式更换为电容式或压阻式，每套实验台选用不同类型和外观的传感器；更换先进的台式数字多用表，使学生自行连接测量电路；实验台为推车式，方便移动。	改装完成 8 套压力标定实验台。	
3	下落法比热容测量实验台	自制	可测量液体和固体的比热容，用于本科生实验教学。测量精度 $\pm 3\%$ 。	研制出下落法比热容测量装置一套。	
4	液体饱和密度测量实验台	自制	可测量流体的饱和密度，用于本科生实验教学。测量温度范围： $-40\sim 100^{\circ}\text{C}$ ，测量精度 $\pm 1\%$ 。	研制出液体饱和密度测量实验台一套。	
5	恒压过滤装置	自制	①各主要部件灵活接口，根据需要能够实现功能的扩展，后期装置升级改造和维护费用低；②压力罐连接两套板框过滤机实现了一拖二的功能；对洗涤罐和压力罐加压实现了气路独立控制；③采用透明管道连接，能清楚的看到	①操作空间明显的提高。在 A 套板框做完一个工况后，可直接切换到 B 套板框做第二个工况，其他同学可以继续做 A 套板框的洗涤和滤饼清	

			浆料的流动状况，也便于清洗。	理，加大学生可动手操作的机会，对实验过程和原理有更深入理解。 ②实验效率大大提高。减少因清洗板框等待的时间，在同等的时间能多做几组工况，实验数据更可靠。	
6	管内换热性质测试实验台	自制	功率 200W, 流量 1500L/h, 管道内径 8mm	研制出液态金属管内换热性质测试实验台 1 套，已授权发明专利 1 项	
7	风光储一体化实验台	改装	最大功率（风力发电/W）：1；最大功率（太阳能发电/W）：10；最大功率（燃料电池/W）：10；最大功率（电解模块/W）：10；工作电压（燃料电池/V）：0~10 DC；工作电压（电解模块/V）：0~4 DC；工作电流（燃料电池/A）：0~5；工作电流（电解模块/A）：0~3；电源供应单元：6V DC/3.3A	研制出风光储一体化实验台 1 套，撰写教改论文 1 篇	
8	叶片及叶片组固有频率锤击法测量试验台	自制	可以采用自由振动法获取叶片以及叶片组的一阶和二阶固有频率，可以在采集系统中直接显示出叶片的频谱特性。本实验需要在深入理解所学知识的基础上，才能正确进行敲击和数据采集及处理，可有效锻炼学生的实际操作能力。	叶片及叶片组固有频率锤击法测量试验台一套	
9	轮盘振动实验台	自制	可以采用共振法形成轮盘节径沙型。可以显示轮盘不低于 6 阶的振动沙型。激励测试系统和振动试验本体需要现场连接并调试	研制出轮盘振动实验台一套	

			才能成功显示，可直接实现对学生知识的检验和动手能力的培养。		
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注：(1) 自制：实验室自行研制的仪器设备。(2) 改装：对购置的仪器设备进行改装，赋予其新的功能和用途。(3) 研究成果：用新研制或改装的仪器设备进行研究的创新性成果，列举 1 - 2 项。

4.其它成果情况

名称	数量
国内会议论文数	212 篇
国际会议论文数	230 篇
国内一般刊物发表论文数	340 篇
省部委奖数	7 项
其它奖数	10 项

注：国内一般刊物：除 CSCD 核心库来源期刊以外的其它国内刊物，只填报原始论文。

四、人才队伍基本情况

(一) 本年度固定人员情况

序号	姓名	性别	出生年份	职称	职务	工作性质	学位	备注
1	丰镇平	男	1956-11-1	教授	中心主任	教学	博士	
2	王秋旺	男	1969-9-22	教授	中心副主任	教学	博士	能动学院副院长、杰青、省级教学名师、热流科学与工程教育部重点实验室副主任
3	邢子文	男	1962-9-12	教授	中心副主任	教学	博士	流体机械及压缩机国家工程中心副主任、长江学者
4	陈 斌	男	1971-11-7	教授	中心	教学	博士	动力工程多相流

					副主任			国家重点实验室 副主任、新世纪人才
5	陶文铨	男	1939-1-19	教授	中心 咨询 委员会 副主任	教学	硕士	中国科学院院士、 国家级教学名师
6	林宗虎	男	1933-5-13	教授	中心 咨询 委员会 委员	教学	硕士	中国工程院院士
7	何雅玲	女	1963-9-16	教授	中心 咨询 委员会 委员	教学	博士	中国科学院院士、 热流科学与工程 教育部重点实验 室主任、国家级教 学名师、长江学 者、杰青
8	郭烈锦	男	1963-12-5	教授	中心 咨询 委员会 委员	教学	博士	中国科学院院士 动力工程多相流 国家重点实验室 主任、长江学者、 杰青、973 项目首 席科学家
9	席 光	男	1963-12-25	教授	中心 咨询 委员会 委员	教学	博士	流体机械及压缩 机国家工程中心 主任、西安交通大 学副校长、杰青
10	严俊杰	男	1967-1-15	教授		教学	博士	能动学院院长、长 江学者、杰青
11	何茂刚	男	1970-12-5	教授		教学	博士	中国青年科技奖 获得者、杰青、新 世纪人才
12	黄佐华	男	1963-5-1	教授		教学	博士	长江学者、杰青
13	赵景联	男	1957-7-1	教授		教学	硕士	
14	巨林仓	男	1959-11-8	教授		教学	硕士	
15	屈宗长	男	1952-10-21	教授		教学	硕士	
16	曾 科	男	1966-3-8	教授		教学	博士	
17	吴筱敏	女	1957-10-26	教授		教学	博士	

18	王金华	男	1981-3-28	教授		教学	博士	“长江学者奖励计划”青年学者
19	刘圣华	男	1964-1-20	教授		教学	博士	
20	汪 映	女	1975-12-1	教授		教学	博士	
21	汤成龙	男	1981-9-17	教授		教学	博士	
22	袁 奇	男	1963-1-2	教授		教学	博士	
23	戴义平	男	1961-5-24	教授		教学	博士	
24	谢永慧	男	1971-2-18	教授		教学	博士	新世纪人才
25	李 军	男	1971-3-14	教授		教学	博士	新世纪人才
26	王新军	男	1962-3-6	教授		教学	博士	
27	秋穗正	男	1965-12-26	教授		教学	博士	新世纪人才
28	苏光辉	男	1966-2-15	教授		教学	博士	长江学者、杰青
29	吴宏春	男	1964-3-12	教授		教学	博士	
30	单建强	男	1971-1-18	教授		教学	博士	
31	曹良志	男	1978-2-15	教授		教学	博士	新世纪人才
32	贺朝会	男	1966-11-29	教授		教学	博士	新世纪人才
33	胡华四	男	1962-8-24	教授		教学	博士	
34	王 盛	男	1977-2-4	教授		教学	博士	
35	恽 迪	男	1979-4-29	教授		教学	博士	青年千人
35	延 卫	男	1971-1-21	教授		教学	博士	新世纪人才
37	沈振兴	男	1973-11-27	教授		教学	博士	
38	王云海	男	1977-11-12	教授		教学	博士	
39	王 元	男	1956-9-4	教授		教学	博士	
40	刘立军	男	1970-5-19	教授		教学	博士	新世纪人才
41	秦国良	男	1964-6-13	教授		教学	博士	
42	张家忠	男	1968-1-29	教授		教学	博士	新世纪人才
43	李景银	男	1966-2-25	教授		教学	博士	
44	张楚华	男	1967-10-25	教授		教学	博士	新世纪人才
45	王焕然	男	1965-6-25	教授		教学	博士	
46	孙金菊	女	1964-5-6	教授		教学	博士	
47	刘海湖	男	1980-12-4	教授		教学	博士	青年千人

48	唐桂华	男	1974-8-16	教授		教学	博士	新世纪人才、优秀青年基金获得者
49	李增耀	男	1972-1-19	教授		教学	博士	新世纪人才
50	屈治国	男	1978-2-5	教授		教学	博士	新世纪人才、“万人计划”青年拔尖人才、“长江学者奖励计划”青年学者
51	刘迎文	男	1976-4-26	教授		教学	博士	
52	吴江涛	男	1973-1-28	教授		教学	博士	百优博士论文获得者
53	赵小明	男	1959-8-15	教授		教学	博士	
54	毕胜山	男	1978-4-5	教授		教学	博士	
55	曾 敏	男	1976-10-11	教授		教学	博士	新世纪人才
56	李国君	男	1963-6-3	教授		教学	博士	
57	张 荻	女	1972-12-1	教授		教学	博士	
58	陶于兵	男	1979-11-2	教授		教学	博士	新世纪人才
59	王晓坡	男	1979-6-1	教授		教学	博士	
60	李印实	男	1979-12-19	教授		教学	博士	新世纪人才、青年千人
61	张兄文	男	1975-10-22	教授		教学	博士	青年千人
62	陈 黎	男	1985-8-26	教授		教学	博士	
63	赵存陆	男	1980-7-3	教授		教学	博士	青年千人
64	刘继平	男	1971-11-2	教授		教学	博士	新世纪人才
65	吴东垠	男	1966-12-21	教授		教学	博士	
66	种道彤	男	1978-10-26	教授		教学	博士	新世纪人才
67	毕勤成	男	1964-2-9	教授		教学	博士	
68	白博峰	男	1971-9-15	教授		教学	博士	杰青
69	李会雄	男	1966-12-20	教授		教学	博士	
70	杨 冬	男	1967-12-5	教授		教学	博士	
71	顾红芳	女	1965-2-17	教授		教学	博士	
72	王跃社	男	1967-11-21	教授		教学	博士	
73	赵 亮	男	1971-5-26	教授		教学	博士	新世纪人才
74	王海军	男	1971-10-4	教授		教学	博士	

75	吕友军	男	1978-2-16	教授		教学	博士	新世纪人才
76	沈少华	男	1982-10-13	教授		教学	博士	新世纪人才
77	王树众	男	1967-12-12	教授		教学	博士	新世纪人才
78	车得福	男	1962-11-17	教授		教学	博士	
79	赵钦新	男	1963-6-23	教授		教学	博士	
80	王 栋	男	1960-2-1	教授		教学	博士	百优博士论文获得者
81	谭厚章	男	1965-5-29	教授		教学	博士	
82	周屈兰	男	1974-6-1	教授		教学	博士	新世纪人才
83	冯全科	男	1953-7-23	教授		教学	博士	
84	吴建华	男	1963-6-26	教授		教学	博士	
85	彭学院	男	1968-12-13	教授		教学	博士	新世纪人才
86	曹 锋	男	1974-6-24	教授		教学	博士	新世纪人才
87	厉彦忠	男	1958-11-10	教授		教学	博士	百优博士论文获得者
88	侯 予	男	1973-6-18	教授		教学	博士	新世纪人才
89	鱼剑琳	男	1963-3-28	教授		教学	博士	
90	文 键	女	1976-12-25	教授		教学	博士	
91	惠世恩	男	1955-12-8	教授		教学	本科	中国青年科技奖获得者
92	田文喜	男	1979-11-30	教授		教学	博士	新世纪人才、优秀青年基金获得者
93	刘小民	男	1971-4-28	教授		教学	博士	
94	刘 磊	男	1967-6-10	教授		教学	博士	
95	敬登伟	男	1977-12-2	教授		教学	博士	优秀青年基金获得者
96	张义云	男	1964-12-22	副教授		教学	硕士	
97	畅云峰	男	1963-8-3	副教授		教学	硕士	
98	黄勇成	男	1973-12-5	副教授		教学	博士	
99	魏衍举	男	1982-2-17	副教授		教学	博士	
100	胡二江	男	1983-9-15	副教授		教学	博士	
101	高忠权	男	1982-2-22	副教授		教学	博士	
102	张英佳	男	1983-1-30	副教授		教学	博士	

103	李倩倩	女	1988-2-11	副教授		教学	博士	
104	高铁瑜	男	1973-6-10	副教授		教学	博士	
105	李 亮	男	1974-8-28	副教授		教学	博士	
106	宋立明	男	1979-2-1	副教授		教学	博士	
107	王江峰	男	1981-3-16	副教授		教学	博士	
108	王顺森	男	1976-7-12	副教授		教学	博士	
109	晏 鑫	男	1983-1-23	副教授		教学	博士	
110	刘 钊	男	1982-2-10	副教授		教学	博士	
111	赵 攀	男	1983-2-4	副教授		教学	博士	
112	李志刚	男	1986-11-26	副教授		教学	博士	
113	赵耀林	男	1976-8-1	副教授		教学	博士	
114	刘书焕	女	1970-3-21	副教授		教学	博士	
115	张大林	女	1981-9-1	副教授		教学	博士	
116	苟军利	男	1977-11-2	副教授		教学	博士	
117	巫英伟	男	1983-10-2	副教授		教学	博士	
118	郑友琦	男	1984-8-30	副教授		教学	博士	
119	张清民	男	1981-7-21	副教授		教学	博士	
120	孙培伟	男	1981-2-9	副教授		教学	博士	
121	臧 航	男	1982-2-15	副教授		教学	博士	
122	李云召	男	1984-5-24	副教授		教学	博士	
123	张亚培	男	1984-6-24	副教授		教学	博士	
124	魏新宇	男	1980-12-30	副教授		教学	博士	
125	刘秀芳	女	1978-9-6	副教授		教学	博士	
126	张 斌	男	1976-5-29	副教授		教学	博士	
127	祖铁军	男	1983-7-28	副教授		教学	博士	
128	陈荣华	男	1986-7-21	副教授		教学	博士	
129	刘红霞	女	1972-1-5	副教授		教学	博士	
130	梁继东	女	1977-10-8	副教授		教学	博士	
131	潘 华	男	1980-6-21	副教授		教学	博士	
132	郑春莉	女	1976-1-31	副教授		教学	博士	

133	饶永芳	女	1973-2-12	副教授		教学	博士	
134	杨鸿辉	男	1981-11-13	副教授		教学	博士	
135	冯江涛	男	1981-1-4	副教授		教学	博士	
136	徐 浩	男	1984-8-24	副教授		教学	博士	
137	何 炽	男	1982-10-25	副教授		教学	博士	
138	李珊珊	女	1983-7-27	副教授		教学	博士	
139	徐红梅	女	1986-3-8	副教授		教学	博士	
140	高宁博	男	1978-3-27	副教授		教学	博士	
141	闻苏平	男	1961-3-5	副教授		教学	博士	
142	宫武旗	男	1968-12-29	副教授		教学	博士	
143	陈雪江	男	1974-6-1	副教授		教学	博士	
144	陈汝刚	男	1970-7-27	副教授		教学	博士	
145	毛义军	男	1981-6-25	副教授		教学	博士	
146	李早阳	男	1984-3-1	副教授		教学	博士	
147	琚亚平	女	1987-1-31	副教授		教学	博士	
148	郭朋华	男	1986-10-25	副教授		教学	博士	
149	张 洋	男	1984-5-27	副教授		教学	博士	
150	孙中国	男	1981-2-9	副教授		教学	博士	
151	王志恒	男	1979-12-3	副教授		教学	博士	
152	吴一宁	女	1969-2-10	副教授		教学	博士	
153	孟现阳	男	1978-9-26	副教授		教学	博士	
154	张剑飞	男	1980-5-2	副教授		教学	博士	
155	张 颖	男	1980-4-5	副教授		教学	博士	
156	杨 剑	男	1981-9-26	副教授		教学	博士	
157	杨卫卫	男	1980-2-16	副教授		教学	博士	
158	马 挺	男	1985-1-24	副教授		教学	博士	
159	冀文涛	男	1983-2-19	副教授		教学	博士	
160	程泽东	男	1984-4-7	副教授		教学	博士	
161	龚建英	女	1977-6-25	副教授		教学	博士	
162	李 平	男	1986-3-23	副教授		教学	博士	

163	宋 渤	男	1986-10-4	副教授		教学	博士	
164	刘向阳	男	1987-1-1	副教授		教学	博士	
165	屠 珊	女	1966-11-25	副教授		教学	博士	
166	周 延	男	1977-11-17	副教授		教学	博士	
167	王进仕	男	1982-10-9	副教授		教学	博士	
168	陈伟雄	男	1985-4-26	副教授		教学	博士	
169	张 丹	男	1983-4-27	副教授		教学	博士	
170	刘 明	男	1985-1-16	副教授		教学	博士	
171	王珍珍	女	1987-8-17	副教授		教学	博士	
172	黄建兵	男	1977-7-25	副教授		教学	博士	
173	李明涛	男	1981-11-24	副教授		教学	博士	
174	金 辉	男	1982-2-8	副教授		教学	博士	
175	苏进展	男	1983-5-3	副教授		教学	博士	
176	陈庆云	女	1976-10-1	副教授		教学	博士	
177	刘朝晖	男	1985-10-16	副教授		教学	博士	
178	师进文	男	1981-10-20	副教授		教学	博士	
179	李良星	男	1979-2-1	副教授		教学	博士	
180	周致富	男	1984-7-8	副教授		教学	博士	
181	陈玉彬	男	1986-1-6	副教授		教学	博士	
182	刘茂昌	男	1984-4-3	副教授		教学	博士	
183	李 东	男	1982-12-18	副教授		教学	博士	
184	孙成珍	男	1987-9-28	副教授		教学	博士	
185	Marco Fronzi	男	1975-12-16	副教授		教学	博士	
186	刘银河	男	1975-10-6	副教授		教学	博士	
187	李 娜	女	1981-9-21	副教授		教学	博士	
188	徐东海	男	1984-4-3	副教授		教学	博士	
189	王学斌	男	1984-11-3	副教授		教学	博士	
190	牛艳青	男	1985-3-18	副教授		教学	博士	
191	邓 磊	男	1983-8-1	副教授		教学	博士	
192	郭 洋	男	1982-7-16	副教授		教学	博士	

193	王长安	男	1986-12-8	副教授		教学	博士	
194	王云刚	男	1983-9-24	副教授		教学	博士	
195	冯健美	女	1976-10-3	副教授		教学	博士	
196	余小玲	女	1978-10-28	副教授		教学	博士	
197	郭 蓓	女	1973-4-20	副教授		教学	博士	
198	吴华根	男	1977-12-31	副教授		教学	博士	
199	何志龙	男	1975-11-15	副教授		教学	博士	
200	吴伟烽	男	1980-7-17	副教授		教学	博士	
201	贾晓晗	男	1983-1-9	副教授		教学	博士	
202	杨 旭	男	1984-9-22	副教授		教学	博士	
203	黄 东	男	1975-5-29	副教授		教学	博士	
204	晏 刚	男	1971-3-9	副教授		教学	博士	
205	陈蕴光	男	1974-3-29	副教授		教学	博士	
206	蒲 亮	男	1976-3-25	副教授		教学	博士	
207	赵红利	男	1974-11-21	副教授		教学	博士	
208	陈双涛	男	1983-10-17	副教授		教学	博士	
209	赖天伟	男	1982-9-20	副教授		教学	博士	
210	王 磊	男	1985-10-20	副教授		教学	博士	
211	林 梅	女	1969-1-9	研究员		技术	硕士	
212	毛靖儒	女	1954-1-24	研究员		技术	本科	
213	张西民	男	1957-9-1	研究员		技术	本科	
214	武永运	男	1957-12-15	高级工程师		技术	专科	
215	郭 焱	男	1969-4-20	高级工程师		技术	硕士	
216	唐上朝	男	1971-11-22	高级工程师		技术	硕士	
217	吴青平	男	1970-2-23	高级工程师		技术	硕士	
218	樊宏周	男	1976-4-3	高级工程师		技术	硕士	
219	马利静	女	1977-7-23	高级工程师		技术	硕士	
220	王智忠	男	1964-10-1	高级工程师		技术	硕士	

221	张兴群	男	1972-12-4	高级工程师		技术	硕士	
222	王锡斌	男	1968-2-3	高级工程师		技术	博士	
223	陈 磊	男	1982-9-22	高级工程师		技术	博士	
224	张晓鹏	男	1962-5-22	高级工程师		技术	本科	
225	赵 忬	女	1964-12-18	高级工程师		技术	本科	
226	李心伟	男	1958-3-7	高级工程师		技术	本科	
227	邢秦安	男	1961-11-2	高级工程师		技术	本科	
228	刘齐寿	男	1968-4-17	讲师		教学	硕士	
229	张 薇	女	1974-12-29	讲师		教学	硕士	
230	刘 兵	男	1974-8-4	讲师		教学	博士	
231	姜 雪	女	1985-11-28	讲师		教学	博士	
232	杨 博	男	1984-6-4	讲师		教学	博士	
233	张 猛	男	1988-5-1	讲师		教学	博士	
234	席 奂	男	1988-9-4	讲师		教学	博士	
235	李祥晟	男	1972-12-17	讲师		教学	博士	
236	邓清华	男	1975-8-19	讲师		教学	博士	
237	朱光宇	男	1985-1-7	讲师		教学	博士	
238	张 博	男	1984-9-7	讲师		教学	博士	
239	刘宙宇	男	1985-7-6	讲师		教学	博士	
240	柳文波	男	1984-4-15	讲师		教学	博士	
241	吴 攀	男	1988-9-19	讲师		教学	博士	
242	王明军	男	1988-8-1	讲师		教学	博士	
243	王成龙	男	1989-1-7	讲师		教学	博士	
244	王鹏飞	男	1987-9-20	讲师		教学	博士	
245	戴艳俊	女	1986-10-28	讲师		教学	博士	
246	刘萍萍	女	1974-6-22	讲师		教学	博士	
247	杨树成	男	1978-10-3	讲师		教学	博士	
248	杨国锐	男	1985-10-9	讲师		教学	博士	

249	王 丽	女	1986-4-17	讲师		教学	博士	
250	全 翠	女	1985-12-17	讲师		教学	博士	
251	于艳科	男	1988-1-5	讲师		教学	博士	
252	宋 鹏	男	1983-1-2	讲师		教学	博士	
253	何 坤	女	1983-7-29	讲师		教学	博士	
254	付 雷	男	1981-9-3	讲师		教学	博士	
255	杨富鑫	男	1985-8-12	讲师		教学	博士	
256	任秦龙	男	1989-3-13	讲师		教学	博士	
257	邱斌斌	男	1987-1-26	讲师		教学	博士	
258	李 根	男	1986-6-9	讲师		教学	博士	
259	李明佳	女	1990-7-3	讲师		教学	博士	
260	韩小渠	男	1989-7-20	讲师		教学	博士	
261	雷贤良	男	1984-1-2	讲师		教学	博士	
262	曹长青	男	1983-7-17	讲师		教学	博士	
263	徐 强	男	1986-8-18	讲师		教学	博士	
264	骆政园	男	1986-12-27	讲师		教学	博士	
265	景泽锋	男	1987-10-19	讲师		教学	博士	
266	梁志远	男	1989-6-5	讲师		教学	博士	
267	王利民	男	1988-5-2	讲师		教学	博士	
268	熊小鹤	男	1986-12-27	讲师		教学	博士	
269	谭宏博	男	1982-1-17	讲师		教学	博士	
270	李 翠	女	1982-2-12	讲师		教学	博士	
271	陈 良	男	1984-11-17	讲师		教学	博士	
272	钱苏昕	男	1989-1-22	讲师		教学	博士	
273	杨 锐	女	1980-8-13	工程师		技术	硕士	
274	颜晓江	男	1986-8-16	工程师		技术	硕士	
275	张 瑜	女	1984-10-8	工程师		技术	硕士	
276	孟 婧	女	1988-10-13	工程师		技术	硕士	
277	王小丹	女	1986-12-24	工程师		技术	硕士	
278	王桂芳	女	1981-10-29	工程师		技术	硕士	

279	郭鹏慧	女	1982-7-19	工程师		技术	硕士	
280	王晔春	男	1982-5-1	工程师		技术	硕士	
281	刘观伟	男	1976-8-16	工程师		技术	博士	
282	李永宏	男	1977-2-6	工程师		技术	博士	
283	张 可	男	1981-2-11	工程师		技术	博士	
284	褚 俊	男	1962-10-26	工程师		技术	本科	
285	徐朝蓉	女	1971-1-10	工程师		技术	本科	
286	卜高选	男	1963-8-1	工程师		技术	本科	
287	姚建安	男	1963-5-28	技师		技术	专科	
288	李新民	男	1968-9-6	高级工		技术	本科	
289	张旭旭	男	1968-10-9	高级工		技术	专科	
290	王保民	男	1958-2-20	高级工		技术	专科	

注：(1) 固定人员：指经过核定的属于示范中心编制的人员。(2) 示范中心职务：示范中心主任、副主任。(3) 工作性质：教学、技术、管理、其它，从事士究工作的兼职管理人员其工作性质为士究。(4) 学位：博士、硕士、学士、其它，一般以学位证书为准。“文革”前毕业的士究生统计为硕士，“文革”前毕业的本科生统计为学士。(5) 备注：是否院士、博士生导师、杰出青年基金获得者、长江学者等，获得时间。

(二) 本年度流动人员情况

序号	姓名	性别	出生年份	职称	国别	工作单位	类型	工作期限
1	李浦	男	19880731	助理研究员	中国	德国达姆施塔特工业大学	博士后	2017-2019
2	胡光	男	19830108	助理研究员	中国	西安交通大学	博士后	2017-2019
3	葛莉	女	19891228	助理研究员	中国	西安交通大学	博士后	2017-2019
4	周生诚	男	19890819	助理研究员	中国	西安交通大学	博士后	2017-2019
5	王洁	女	19891226	助理研	中国	中国科学技术	博士后	2017-2019

				究员		大学		
6	武佳	女	19871119	助理研究员	中国	西安交通大学	博士后	2017-2019
7	吕伟	女	19890424	助理研究员	中国	西安交通大学	博士后	2017-2019
8	田杰	男	19860111	助理研究员	中国	中国科学院地球环境研究中心	博士后	2017-2019
9	王艳峰	男	19851102	助理研究员	中国	西北工业大学	博士后	2017-2019
10	凌空	男	19871211	助理研究员	中国	西安交通大学	博士后	2017-2019
11	李燕瑞	女	19911008	助理研究员	中国	中国科学技术大学	博士后	2017-2019
12	王登辉	男	19890821	助理研究员	中国	西安交通大学	博士后	2017-2019
13	薛绒	女	19831118	助理研究员	中国	西安交通大学	博士后	2017-2019
14	谢福寿	男	19870508	助理研究员	中国	西安交通大学	博士后	2017-2019

注：(1) 流动人员：包括“访问学者和其他”两种类型。(2) 工作期限：在示范中心工作的协议起止时间。

(三) 本年度教学指导委员会人员情况

序号	姓名	性别	出生年份	职称	职务	国别	工作单位	类型	参会次数
1	王如竹	男	1964	教授	主任委员	中国	上海交通大学	外校专家	0
2	廖强	男	1965	教授	委员	中国	重庆大学	外校专家	0
3	王占学	男	1969	教授	委员	中国	西北工业大学	外校专家	0
4	张学延	男	1962	教授级高工	委员	中国	西安热工研究院有限公司	企业专家	0
5	贾亚妮	女	1965	高工	委员	中国	陕西鼓风机(集团)有限公司	企业专家	0
6	严俊杰	男	1967	教授	委员	中国	西安交通大学	校内专家	0
7	何茂刚	男	1970	教授	委员	中国	西安交通大学	校内	0

								专家	
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注：(1) 教学指导委员会类型包括校内专家、外校专家、企业专家和外籍专家。(2) 职务：包括主任委员和委员两类。(3) 参会次数：年度内参加教学指导委员会会议的次数。

五、信息化建设、开放运行和示范辐射情况

(一) 信息化建设情况

中心网址	http://sfnd.xjtu.edu.cn	
中心网址年度访问总量	9015 人次	
信息化资源总量	132Mb	
信息化资源年度更新量	21Mb	
虚拟仿真实验教学项目	26 项	
中心信息化工作联系人	姓名	张可
	移动电话	13689288923
	电子邮箱	zhangk@mail.xjtu.edu.cn

(二) 开放运行和示范辐射情况

1. 参加示范中心联席会活动情况

所在示范中心联席会学科组名称	交通/航空/能源组
参加活动的人次数	3 人次

2. 承办大型会议情况

序号	会议名称	主办单位名称	会议主席	参加人数	时间	类型
1	快中子堆金属燃料研发国际研讨会	西安交通大学	恽迪	60 人	2017. 10. 9-10. 11	全球性
2	第十七届世界核反应堆热工水力大会	中国核学会	杨保文	750 人	2017. 9. 3-9. 8	全球性
3	2017 年国际绿色能源会议	西安交通大学	王秋旺	250 人	2017. 7. 31-8. 3	全球性
4	中英国际颗粒论坛(扬)	西安交通大学	白博峰	100 人	2017. 9. 8-	双边性

	州召开)				9.10	
5	界面现象与传热国际会议	西安交通大学	白博峰	110 人	2017.7.8-7.10	全球性
6	2017 年压缩机与制冷国际会议	西安交通大学	邢子文	250 人	2017.7.21-7.22	全球性
7	第五届纳米技术、可再生能源以及可持续性国际研讨会	动力工程多相流国家重点实验室	Lionel Vayssieres 郭烈锦	120 人	2017.9.24-9.26	全球性
8	2017 年国际清洁能源大会	中国机械工业教育协会能动学科教学	郭烈锦	200 人	2017.12.8-12.11	全球性
9	2017 中国机械工业教育协会机电类学科教学委员会能动与动力工程学科教学委员会研讨会	中国机械工业教育协会机电类学科教学委员会能动与动力工程学科教学委员会	陶文铨		2017.7.22-24	全国性
10	NECP-Bamboo 用户研讨会暨《核反应堆物理》教学研讨会	西安交通大学 NECP 实验室	吴宏春	40 人	2017.7.21-7.22	全国性

注：主办或协办由主管部门、一级学会或示范中心联席会批准的会议。请按全球性、区域性、双边性、全国性等排序，并在类型栏中标明。

3.参加大型会议情况

序号	大会报告名称	报告人	会议名称	时间	地点
1	Engineering Surface Structures and Energetics of α -Fe ₂ O ₃ and Si for Photoelectrochemical Water Splitting	沈少华	18th International Conference of the Union of Materials Research Societies in Asia (IUMRS-ICA 2017)	November 2017	中国台北
2	Surface Modified Hematite and Silicon for Photoelectrochemical Water Splitting	沈少华	International Conference on Functional Nanomaterials and Nanodevices	September 2017	匈牙利布达佩斯
3	Solar Hydrogen Production via	刘茂昌	UK-China International	September 2017	中国扬州

	Photocatalysis: From Microscale Semiconductor Particle to Pilot Reaction System		Particle Technology Forum VI 2017		
4	Complex Photocatalysis via Simple Twinned Nanostructure	刘茂昌	2017 China-UK Workshop on Efficient Energy Utilisation	August 2017	中国南 京
5	冰箱、冷柜用换热 器的技术研究现状	鱼剑琳	2017 年中国家用 电器技术大会（冰 箱/冷柜专业技术 分会）	2017. 11. 3	安徽省 合肥市
6	高速透平机械在制 冷低温工程中的应 用	侯 予	第九届全国制冰机 产业研讨会暨 2017 年河南省制冷学会 学术年会	2017. 12. 15	河南省 焦作市
7	高速透平技术在制 冷低温系统中的应 用	侯 予	中国制冷学会学术 年会（CAR2017）	2017. 11. 15	陕西、 西安
8	液氮喷雾冷却热物 理问题研究	陈 良	第十三届全国低温 工程大会	2017. 11. 3	广东东 莞
9	New Concept Single Screw Compressors and Their Manufacture Technology	Quake Feng 冯全科	The 10th International Conference on Compressors and their Systems	Sept, 11-13	City, U nivers ity of London , UK
10	Control of oxygen in a continuous-feedi ng Czochralski-sili con crystal growth with double crucibles	刘立军	China Photovoltaic Technology International Conference (CPTIC) 2017, 25 minutes Invited, Best Presentation Award	March 30 - April 2, 2017	Xi' an , China
11	硅烷流化床法还原 多晶硅过程的数值 模拟研究	刘立军	2017 年第一届新疆 光伏硅材料产业协 同发展论坛, 30 分	2017 年 4 月 13-16 日	新疆石 河子市

			钟，特邀		
12	晶体生长热场与工艺模拟技术及其进展	刘立军	第一届光伏晶体生长技术研讨会， 25 分钟，特邀	2017 年 4 月 19 日	上海
13	Atomistic Simulations of Carbon Diffusion, Solution and Segregation in Liquid Silicon	刘立军	China SoG Silicon and PV Power Conference (13th CSPV) , 20minutes Invited	Nov. 16-18, 2017	Xuzou, Jiangsu, China
14	Control of heat transfer and oxygen in growing silicon crystals in continuous-feeding Czochralski growth method	刘立军	2017 International Symposium on Crystal Growing System and Control Technology, 40 minutes Invited	December 1-3, 2017	Xi' an, China
15	降低光伏发电系统的成本技术是领跑者的发展趋势	刘立军	2017 光伏领袖峰会（西部论坛），2 小时特邀对话嘉宾	2017 年 12 月 4-6 日	西安
16	Invited Speaker: Studying Pattern Dynamics in Aerodynamics Using Lagrangian Coherent Structures	张家忠	TOPICAL PROBLEMS OF NONLINEAR WAVE PHYSICS (NWP-2017)	2017 年 7 月 22-28 日	莫斯科-圣匹兹堡
17	利用低温液体膨胀机技术降低大型工业空分能耗	孙金菊	2017 综合能源系统创新技术论坛	2017 年 11 月 25-27 日	重庆
18	科教融合、协同育人，培养能源动力类创新型人才	陈雪江	2017 中国机械工业教学协会能源与动力工程学科教学研讨会	2017 年 7 月 23 日	哈尔滨工业大学
19	Energy and water conservation at pre-dried lignite-fired power plants	刘明	IGEC 2017	Jul. 31-Aug. 3, 2017	西安

20	Interfacial Characteristics and Related Pressure Oscillation of Direct Contact Condensation of Submerged Steam Jet	种道彤	IPHT 2017	July 7-10, 2017	西安
21	多变煤质煤粉燃烧及生物质混燃关键技术与应用	谭厚章	2017 年工程热物理年会燃烧学术年会	2017. 10. 14	南京
22	Numerical study of heat and mass transfer in porous media	屈治国	ASCHT2017	2017 年 12 月 10 日-13 日	印度金奈
23	Experimental and numerical study of flow characteristics for a ionic wind pump	屈治国	IWFHT2017	2017 年 7 月 19 日至 21 日	上海交通大学
24	非共沸混合工质在有机朗肯循环中的应用、探索及思考	席奂	第一届非共沸混合工质研究高端论坛	2017 年 11 月 18 日	天津大学
25	Study on single event effects in 28nm system on chip	贺朝会	International Workshop on Reliability and Reliability of Micro- and Nano-Electronic Devices in Harsh Environment	2017. 5. 2 2-24	成都
26	新型半导体材料辐射效应多尺度模拟研究	贺朝会	多组分漂移扩散模型及跨尺度半导体器件损伤模拟	2017. 10. 19-21	成都
27	根据 EXAFS 实验分析的金属钼中缺陷热稳定行为的原子尺度研究	恽迪	第十六届全国青年材料研讨会	2017. 10. 15	天津

28	X-ray Characterization of Irradiation Effects in Nuclear Materials	恽迪	西安交大、上海交大、东京大学三校核能论坛	2017. 11. 24	西安
29	Precise Measurements of Neutrino Oscillation Parameters θ_{13} and Δm_{2ee}^2	张清民	第15届味物理和CP破坏国际会议 15th International Conference on Flavor Physics & CP Violation (FPCP2017)	2017 年 6 月 5 日-9 日	布拉格
30	核数据处理程序 NECP-Atlas 的开发与验证	吴宏春	核数据宏观会议	2017. 11. 23	无锡
31	确定论与概率论综合方法	吴宏春	核反应堆物理及核材料会议	2017. 11. 13	深圳
32	Study on single event effects in 28nm system on chip	贺朝会	International Workshop on Reliability and Reliability of Micro- and Nano-Electronic Devices in Harsh Environment	2017. 5. 2 2-24	成都
33	新型半导体材料辐射效应多尺度模拟研究	贺朝会	多组分漂移扩散模型及跨尺度半导体器件损伤模拟	2017. 10. 19-21	成都
34	根据 EXAFS 实验分析的金属钼中缺陷热稳定行为的原子尺度研究	恽迪	第十六届全国青年材料研讨会	2017. 10. 15	天津

注：大会报告：指特邀报告。

4.承办竞赛情况

序号	竞赛名称	参赛人数	负责人	职称	起止时间	总经费 (万元)
1	“格兰富杯”第十届全国大学生节能减排大赛校内赛	196	丰镇平	教授	2017. 3-20 17. 6	5

注：学科竞赛：按国家级、省级、校级设立排序。

5.开展科普活动情况

序号	活动开展时间	参加人数	活动报道网址
1	2017.2.23	100	王秋旺教授 广州市第二中学
2	2017.2.24	500	王秋旺教授 国华纪念中学
3	2017.5.17	200	刘小民教授 十堰陨阳中学
4	2017.5.18	1500	刘小民教授 十堰一中
5	2017.6.14	100	王秋旺教授 华中师范大学第一附属中学
6	2017.6.15	600	王秋旺教授 武汉市第三中学
7	2017.6.26	450	彭学院教授 金东方学校（初中）
8	2017.9.14	150	陈斌教授 仙桃中学
9	2017.9.15	300	陈斌教授 天门中学
10	2017.9.15	150	陈斌教授 仙桃一中
11	2017.9.20	350	严俊杰教授 襄阳四中
12	2017.9.21	600	严俊杰教授 襄阳五中
13	2017.9.21	400	王秋旺教授 广州执信中学
14	2017. 10. 4	200	瞿艳阳教授 荆门龙泉中学

6.接受进修人员情况

序号	姓名	性别	职称	单位名称	起止时间
1	钱琳	女	讲师	中国矿业大学	2017. 9-2018. 1
2	连健	女	讲师	中国矿业大学	2017. 9-2018. 1

注：进修人员单位名称填写学校，起止时间以正式文件为准。

7.承办培训情况

序号	培训项目名称	培训人数	负责人	职称	起止时间	总经费
1	法国电力 EDF-西安交通大学 2017 年 Code_Saturne 软件培训班	50	秋穗正	教授	2017. 8. 30 -9. 2	10 万

注：培训项目以正式文件为准，培训人数以签到表为准。

（三）安全工作情况

安全教育培训情况	444 人次
是否发生安全责任事故	

伤亡人数（人）		未发生
伤	亡	
0	0	√

注：安全责任事故以所在高校发布的安全责任事故通报文件为准。如未发生安全责任事故，请在其下方表格打钩。如发生安全责任事故，请说明伤亡人数。

六、审核意见

（一）示范中心负责人意见

示范中心承诺所填内容属实，数据准确可靠。

数据审核人：

示范中心主任：

（单位公章）

2018 年 1 月 30 日

（二）学校评估意见

所在学校年度考核意见：

（需明确是否通过本年度考核，并明确下一步对示范中心的支持。）

能源与动力工程专业国家级实验教学示范中心（西安交通大学）通过了2017 年度考核。2018 年度，学校将继续大力支持该中心建设：政策方面，坚决贯彻执行《国家级实验教学示范中心管理办法》和《西安交通大学本科基础教学实验中心管理办法》，助力国家级实验教学示范中心科学规范管理；经费方面，学校将通过一流大学推进计划人才培养专项、高校教育教学改革专项经费、实验教学运行经费等多种经费支持国家级实验教学示范中心建设；机制方面，在夯实国家级实验教学示范中心实验教学主体地位的基础上，深化建设能源化工学科交叉创新实践平台和西安交大-陕鼓动力实践教育创

新创业基地，整合示范中心、交叉平台和校外基地的实验实践教学资源，形成新型三层次实践教学体系，为国家级实验教学示范中心注入新的发展活力。

所在学校负责人签字：

(单位公章)

2018年1月30日



王树国

