**教学改革与科学研究情况**

（一）承担教学改革任务及经费

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | 2023年四川省高等教育人才培养和教学改革重大项目/基于深度产教科教融合的材料类“本硕博”贯通式拔尖人才培养模式的探索与实践 |  | 赵长生 | 冉蓉、王宇、钱祉祺＃、任世杰、高雪芹、丁春梅、张楚虹＃、木肖玉＃、吴宏＃、刘丹＃ | 2023-2024 | 5.0 | a |
| 2 | 2023年四川省普通本科高等学校材料类专业教学指导委员会教育教学改革研究与实践项目/德才兼备的拔尖工科专业人才培养模式的探索与实践——以高分子材料与工程专业为例 | 2023CLJZW02 | 冉蓉 | 冉蓉、赵长生、木肖玉＃、任世杰、高雪芹、丁春梅、钱祉祺＃、刘丹＃、杨梦溪＃、周天楠 | 2023-2024 | 2.0 | a |
| 3 | 2023 年省级高等学校创新性实验项目/多元化高分子前沿创新实验课程体系设计与实践 | 川教函〔2023〕446 号 | 秦家强 | 冉蓉、周天楠、杨昌跃、孙小蓉、袁丹丹、李晓瑜、何超、张明华、田晨旭 | 2023-2024 | 3 | a |
| 4 | 四川省材料教指委教改项目/双碳背景下新能源材料与器件专业一流本科人才培养模式迭代与实践 |  | 张云 |  | 2023-2024 | 2.0 | a |

注：此表填写省部级以上教学改革项目/课题。（1）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：必须是示范中心人员（含固定人员和流动人员）。（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人员为第一负责人的课题；b类课题指本示范中心协同其他单位研究的课题。

（二）研究成果

1.专利情况

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| --- | --- | --- | --- | --- | --- | --- |
| 序号 | 专利名称 | 专利授权号 | 获准国别 | 完成人 | 类型 | 类别 |
| 1 | 一种基于叔胺基团的CO2响应增粘聚合物及其制备方法和应用 | CN202111218728 | 中国 | 苏鑫 | 发明专利 | 合作完成-第一人 |
| 2 | 一种硫化胶乳及其在压差激活封堵剂中的用途 | CN116218049B | 中国 | 吴锦荣 | 发明专利 | 合作完成-第一人 |
| 3 | 利用聚多酚材料提升山椒素光防护稳定性的方法 | CN115385817B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 4 | 聚硼硅氧烷弹性体在显示屏保护中的应用 | CN115044084B | 中国 | 吴锦荣 | 发明专利 | 合作完成-第一人 |
| 5 | 抗菌矿化水凝胶与前体材料及其制备和应用方法 | CN115501122B | 中国 | 李建树 | 发明专利 | 合作完成-第一人 |
| 6 | 一种基于离子聚集体交联的高强高韧水凝胶及其制备方法与应用 | CN115057970B | 中国 | 吴锦荣 | 发明专利 | 合作完成-第一人 |
| 7 | 一种自抗凝双层多孔芳纶血液灌流器及其应用 | CN114699584B | 中国 | 赵长生 | 发明专利 | 合作完成-第一人 |
| 8 | 一种多基底表面的金属配位抗菌涂层及其制备方法 | CN115785718B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 9 | 一种人造黑色素洗护染三合一洗剂及其制备方法 | CN114028251B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 10 | 一种具有紫外防护功能的人造黑色素染发剂及其制备方法 | CN114159351B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 11 | 一种利用荧光探针原位监测聚合物成膜过程的方法 | CN114609102B | 中国 | 傅强 | 发明专利 | 合作完成-第一人 |
| 12 | 一种发光酸敏感聚合物、制备方法及应用 | CN116102736B | 中国 | 丁明明 | 发明专利 | 合作完成-第一人 |
| 13 | 具有压电性能的高分子水凝胶膜及其制备和应用 | CN114672117B | 中国 | 杨伟 | 发明专利 | 合作完成-第一人 |
| 14 | 从花椒中分离山椒素并将其制备成纳米制剂的方法及应用 | CN115212169B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 15 | 光损修复天然多酚-山椒素纳米组装体的制备方法及应用 | CN115212175B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 16 | 一种黑色素-山椒素复合纳米材料的制备方法及应用 | CN115120741B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 17 | 低介电损耗的黑色素纳米材料及在基板上制备其涂层的方法及产品 | CN115058005B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 18 | 一种基于纳米凝胶增强的物理水凝胶及其制备方法与应用 | CN115010868B | 中国 | 吴锦荣 | 发明专利 | 合作完成-第一人 |
| 19 | 一种多功能聚脲基酸酯衍生物及其制方法和应用 | CN114907546B | 中国 | 丁明明 | 发明专利 | 合作完成-第一人 |
| 20 | 一种高强度自修复弹性体材料及其制备方法 | CN115181347B | 中国 | 傅强 | 发明专利 | 合作完成-第一人 |
| 21 | 一种聚丙烯酰胺/有机硅共混水凝胶的用途 | CN114395087B | 中国 | 吴锦荣 | 发明专利 | 合作完成-第一人 |
| 22 | 光磁双驱型复合矿化膜及其制备方法、应用 | CN115197459B | 中国 | 丁春梅 | 发明专利 | 合作完成-第一人 |
| 23 | 一种聚联硼硅氧烷橡胶材料及其制备方法 | CN115216013B | 中国 | 吴锦荣 | 发明专利 | 合作完成-第一人 |
| 24 | 无定形磷酸钙复合材料及其制备方法、在口腔中的应用 | CN114939068B | 中国 | 李建树 | 发明专利 | 合作完成-第一人 |
| 25 | 一种新型高效的螯合物类抗氧剂及其制备方法与应用 | CN114149582B | 中国 | 黄亚江 | 发明专利 | 合作完成-第二人 |
| 26 | 微生物-光电化学-热电化学耦合产氢系统 | CN113388845B | 中国 | 杨伟 | 发明专利 | 合作完成-第一人 |
| 27 | 一种超疏水抗菌复合膜及其制备方法 | CN114805947B | 中国 | 丁春梅 | 发明专利 | 合作完成-第一人 |
| 28 | 含芳香酯基和对称氟苯结构的二胺单体及其制备方法和应用 | CN114644563B | 中国 | 刘向阳 | 发明专利 | 合作完成-第一人 |
| 29 | 一种多重响应性的氨基糖苷小分子水凝胶及其制备方法和应用 | CN111991345B | 中国 | 李乙文 | 发明专利 | 合作完成-第三人 |
| 30 | 具有粘附性的防冻导电水凝胶及其制备与应用方法 | CN114874388B | 中国 | 李建树 | 发明专利 | 合作完成-第二人 |
| 31 | 低介电常数硅橡胶复合薄膜及其制备方法、应用 | CN111793361B | 中国 | 邓华 | 发明专利 | 合作完成-第一人 |
| 32 | 利用溶剂促进胶带或粘接剂在水下进行粘接的方法 | CN112662322B | 中国 | 吴锦荣 | 发明专利 | 合作完成-第一人 |
| 33 | 一种仿金属酶生物催化材料及其制备方法和用途 | CN115138385B | 中国 | 赵长生 | 发明专利 | 合作完成-第四人 |
| 34 | 湿态可粘附的口腔凝胶贴片的制备与应用 | CN113876741B | 中国 | 李建树 | 发明专利 | 合作完成-第一人 |
| 35 | 一种同向旋转锥形双螺杆熔融沉积成型挤出式3D打印喷头 | CN113665100B | 中国 | 张杰 | 发明专利 | 合作完成-第一人 |
| 36 | 一种基于润滑、pH响应性的环刷状两性离子聚合物及其制备方法和应用 | CN114933677B | 中国 | 李建树 | 发明专利 | 合作完成-第一人 |
| 37 | 一种牙科用填料及其制备方法 | CN114795973B | 中国 | 李建树 | 发明专利 | 合作完成-第一人 |
| 38 | 一种聚丙烯酰胺/有机硅共混水凝胶及其制备方法 | CN114292483B | 中国 | 吴锦荣 | 发明专利 | 合作完成-第一人 |
| 39 | 利用氨基酸增黑的黑色素染发剂及其制备方法、使用方法 | CN114177103B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 40 | 耐弯折黑色素涂覆聚酰亚胺薄膜及其制备方法 | CN115010974B | 中国 | 李乙文 | 发明专利 | 合作完成-第一人 |
| 41 | 一种AlSb薄膜太阳能电池潮解抑制方法 | CN116544316B | 中国 | 曾广根 | 发明专利 | 合作完成-其它 |
| 42 | 氮掺杂诱导的碳包覆双晶型Ni催化剂、其制备方法及应用 | CN116742024B | 中国 | 陈云贵 | 发明专利 | 合作完成-第一人 |
| 43 | 一种层状的过渡金属硼化物材料及其制备方法与应用 | CN115532251B | 中国 | 林紫锋 | 发明专利 | 合作完成-第一人 |
| 44 | 一种各向异性纳米晶稀土永磁体及制备方法 | CN116230346B | 中国 | 刘颖 | 发明专利 | 合作完成-第一人 |
| 45 | 一种各向异性片状纳米晶稀土永磁材料的制备方法及稀土永磁材料 | CN115762942B | 中国 | 刘颖 | 发明专利 | 合作完成-第一人 |
| 46 | 一种稀土元素碳化物、氮化物或碳氮化物粉末的制备方法 | CN115403043B | 中国 | 刘颖 | 发明专利 | 合作完成-第一人 |
| 47 | 多金属氧酸盐Sr-2xV-2O-7H-2O及其制备方法和应用 | CN114604895B | 中国 | 刘颖 | 发明专利 | 合作完成-第一人 |
| 48 | 一种二硒化钨太阳能电池 | CN114744058B | 中国 | 王泽高 | 发明专利 | 合作完成-第一人 |
| 49 | 一种高振实密度的Bi/C复合材料及其制备方法与应用 | CN115763731B | 中国 | 吴昊 | 发明专利 | 合作完成-第一人 |
| 50 | 一种钒B位掺杂烧绿石型聚锑酸材料及其制备方法和应用 | CN114639813B | 中国 | 吴昊 | 发明专利 | 合作完成-第一人 |
| 51 | 钛酸钡基无铅铁电陶瓷及其制备方法 | CN115466112B | 中国 | 吴家刚 | 发明专利 | 合作完成-第一人 |
| 52 | 一种多孔SnTe热电材料的制备方法 | CN112670400B | 中国 | 杨磊 | 发明专利 | 合作完成-第一人 |
| 53 | Al-RE-Te三元中间合金及其制备方法 | CN113106302B | 中国 | 叶金文 | 发明专利 | 合作完成-第一人 |
| 54 | M-nAlC-(n-1)相粉末的制备方法 | CN112830491B | 中国 | 叶金文 | 发明专利 | 合作完成-第一人 |
| 55 | M-nAlC-xN-(n-1-x)相粉末的制备方法 | CN111204721B | 中国 | 叶金文 | 发明专利 | 合作完成-第一人 |
| 56 | 一种制备高质量铯铋碘单晶的方法 | CN115652404B | 中国 | 张静全 | 发明专利 | 合作完成-第一人 |
| 57 | 一种全狭缝涂布大面积钙钛矿太阳电池的制备方法 | CN115915875B | 中国 | 张静全 | 发明专利 | 合作完成-第一人 |
| 58 | 一种生长全无机非铅钙钛矿单晶的方法 | CN115433999B | 中国 | 张静全 | 发明专利 | 合作完成-第一人 |
| 59 | 一种多孔纤维束状的钛系锂吸附剂及其制备方法 | CN115069208B | 中国 | 张云 | 发明专利 | 合作完成-第一人 |
| 60 | 一种全钙钛矿叠层太阳能电池及其制备方法 | CN116171053B | 中国 | 赵德威 | 发明专利 | 合作完成-第一人 |
| 61 | 一种单基底四端级联钙钛矿-碲化镉叠层太阳电池 | CN114765200B | 中国 | 赵德威 | 发明专利 | 合作完成-第一人 |

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：必须是示范中心人员（含固定人员和流动人员），多个中心完成人只需填写靠前的一位，排名在类别中体现。（4）类型：其他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-其他。如果成果全部由示范中心人员完成的则为独立完成。如果成果由示范中心与其他单位合作完成，第一完成人是示范中心人员则为合作完成-第一人；第二完成人是示范中心人员则为合作完成-第二人，第三及以后完成人是示范中心人员则为合作完成-其他。（以下类同）。

2.发表论文、专著情况

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 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 | Pseudo hydrophobically associative polymer with CO2-switchable viscosity | 苏鑫 | JOURNAL OF MOLECULAR LIQUIDS | 2023, 372: 121170 | SCI | 合作完成-第一人 |
| 2 | Carbomer/arginine intelligent viscoelastic fluid with adjustable CO2-responsive viscosity | 苏鑫 | JOURNAL OF MOLECULAR LIQUIDS | 2023, 389: 122842 | SCI | 合作完成-第一人 |
| 3 | Responsive wormlike micelles from oleoyl sarcosine triggered by pH and temperature | 苏鑫 | JOURNAL OF MOLECULAR LIQUID | 2023, 385:122342 | SCI | 合作完成-第一人 |
| 4 | pH-Responsive polyethyleneimine hydrogel based on dynamic covalent bonds | 苏鑫 | JOURNAL OF POLYMER RESEARCH | 2023, 30, 96 | SCI | 合作完成-第一人 |
| 5 | Lauroyl arginate ethyl: A novel bio-based CO2-switchable surfactant | 苏鑫 | JOURNAL OF SURFACTANTS AND DETERGENTS | 2023, 26(6): 761 | SCI | 合作完成-第一人 |
| 6 | Supramolecular self-assembly of robust, ultra-stable, and high-temperature-resistant viscoelastic worm-like micelles | 殷鸿尧 | JOURNAL OF COLLOID AND INTERFACE SCIENCE | 2023, 649: 403–415 | SCI | 合作完成-第一人 |
| 7 | A salt-induced smart and tough clean hydrofracturing fluid with superior high-temperature and high-salinity resistance | 殷鸿尧 | ENERGY | 2024, 286: 129685 | SCI | 合作完成-第一人 |
| 8 | Saturated C22-tailed cationic surfactant in concentrated brine: Structural evolution of wormlike micelles and rheological properties | 殷鸿尧 | JOURNAL OF MOLECULAR LIQUID | 2023, 378: 121561 | SCI | 合作完成-第一人 |
| 9 | Exploring the impact of cellulose nanocrystals and annealing treatment on the interlayer bond strength of polylactic acid 3D printed composites | 高雪芹 | JOURNAL OF APPLIED POLYMER SCIENCE | 10.1002/app.54956 | SCI | 合作完成-第一人 |
| 10 | Water-Induced Phase Separation for Anti-Swelling Hydrogel Adhesives in Underwater Soft Electronics | 崔为 | ADVANCED SCIENCE | 10.1002/advs.202304780 | SCI | 合作完成-第一人 |
| 11 | Moisture-electric foam based on dendritic colloids and polypyrrole-modified graphene oxide prepared by template method | 邓华 | COMPOSITES COMMUNICATIONS | 2023,44:101761 | SCI | 合作完成-第一人 |
| 12 | Preparation of phase change microcapsules with high thermal storage and temperature sensitive for thermal management | 崔为 | JOURNAL OF ENERGY STORAGE | 2023,64:107003 | SCI | 合作完成-第一人 |
| 13 | Experimental validation of two constitutive models for numerical simulation on the extrusion of rubber blends | 高雪芹 | POLYMER ENGINEERING AND SCIENCE | 2023,63(11):3865-3878 | SCI | 合作完成-第一人 |
| 14 | Preparation of high-performance PLA/PBAT blends with hierarchical structure by controlling distribution of oriented region | 张杰 | JOURNAL OF POLYMER RESEARCH | 2023,30(3):128 | SCI | 合作完成-第一人 |
| 15 | Hyper-Cross-Linked Nanoparticle Reinforced Composite Polymer Electrolytes with Enhanced Ionic Conductivity and Thermal Stability for Lithium-Ion Batteries | 李乙文 | ACS APPLIED POLYMER MATERIALS | 10.1021/acsapm.2c01997 | SCI | 合作完成-第一人 |
| 16 | Partially H-bonded covalent organic frameworks for photocatalytic hydrogen evolution | 李乙文 | JOURNAL OF MATERIALS CHEMISTRY A | 2023,11(27):14760-14767 | SCI | 合作完成-第一人 |
| 17 | Biomimetic Hybrid Networks with Excellent Toughness and Self-Healing Ability in the Glassy State | 吴锦荣 | CHEMISTRY OF MATERIALS | 2023,35(2):682-691 | SCI | 合作完成-第一人 |
| 18 | Healable and Recyclable Polyurethane with Natural-Rubber-like Resilience via π-Type Tweezer Structure Stabilizing Dynamical Hard Domains | 吴锦荣 | MACROMOLECULES | 2023,56(21):8581-8591 | SCI | 合作完成-第一人 |
| 19 | Double-gradient-structured composite aerogels for ultra-high-performance moisture energy harvesting | 傅强 | ENERGY & ENVIRONMENTAL SCIENCE | 2023,16(8):3600-3611 | SCI | 合作完成-第一人 |
| 20 | Fabrication of high-performance moisture-electric generators via synergistic effect between CNTs and TiO2 on porous PU structure | 邓华 | COMPOSITES SCIENCE AND TECHNOLOGY | 2023,241:110105 | SCI | 合作完成-第一人 |
| 21 | Application of infrared spectroscopy in the multiscale structure characterization of poly(L-lactic acid) | 丁明明 | POLYMER | 2023,278:125985 | SCI | 合作完成-第一人 |
| 22 | Effects of polymer polarity on the interface interaction of polymer/liquid metal composites | 傅强 | CHEMICAL COMMUNICATIONS | 10.1039/d3cc02923a | SCI | 合作完成-第一人 |
| 23 | Porous Organic Polymers as Active Electrode Materials for Energy Storage Applications | 任世杰 | SMALL METHODS | 10.1002/smtd.202301335 | SCI | 合作完成-第一人 |
| 24 | Enabling High-Performance Artificial Muscles via a High Strength Fiber Reinforcement Strategy | 秦家强 | ADVANCED MATERIALS TECHNOLOGIES | 2023,8(17):2300430 | SCI | 合作完成-第一人 |
| 25 | Effect of POSS Size on the Porosity and Adsorption Performance of Hybrid Porous Polymers | 傅强 | MACROMOLECULES | 10.1021/acs.macromol.2c02486 | SCI | 合作完成-第一人 |
| 26 | The effects of cellulose nanocrystal and dicumyl peroxide on the crystallization kinetics of polylactic acid | 高雪芹 | POLYMER ENGINEERING AND SCIENCE | 2023,63(10):3231-3242 | SCI | 合作完成-第一人 |
| 27 | Fabrication of Ultralarge Curvature Folding-Resistant Polyimide Films by Widening the Elastic Range and Intermolecular Slippery Spacing | 刘向阳 | MACROMOLECULES | 2023,56(11):4362-4370 | SCI | 合作完成-第一人 |
| 28 | Ultralarge Curvature Folding Resistance of Polyimide Films Based on Spring-Like Folding Segments | 刘向阳 | ACS MACRO LETTERS | 2023,12(6):703-709 | SCI | 合作完成-第一人 |
| 29 | Novel Strategy to Improve the Performance of Poly(l-lactide): The Synergistic Effect of Disentanglement and Strong Shear Field | 张杰 | ACS SUSTAINABLE CHEMISTRY & ENGINEERING | 2023,11(26):9630-9642 | SCI | 合作完成-第一人 |
| 30 | Development of Piezoelectric Elastomers and Their Applications in Soft Devices | 吴锦荣 | MACROMOLECULAR MATERIALS AND ENGINEERING | 10.1002/mame.202300101 | SCI | 合作完成-第一人 |
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| 254 | Origin of the quasi-periodic coarse grain regions in hot-deformed Nd-Fe-B magnets | 刘颖 | MATERIALS CHARACTERIZATION | 2023,204,113238 | SCI | 合作完成-第一人 |
| 255 | Simultaneous enhancement of magnetic properties and electric resistance of hot-deformed Nd-Fe-B magnets by doping insulating nano-diamonds | 刘颖 | JOURNAL OF ALLOYS AND COMPOUNDS | 2023,965,171424 | SCI | 合作完成-第一人 |

注：（1）论文、专著均限于教学研究、学术期刊论文或专著，一般文献综述、一般教材及会议论文不在此填报。请将有示范中心人员（含固定人员和流动人员）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。（2）类型：SCI（E）收录论文、SSCI收录论文、A&HCL收录论文、EI Compendex收录论文、北京大学中文核心期刊要目收录论文、南京大学中文社会科学引文索引期刊收录论文（CSSCI）、中国科学院中国科学引文数据库期刊收录论文（CSCD）、外文专著、中文专著；国际会议论文集论文不予统计，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。（3）外文专著：正式出版的学术著作。（4）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。（5）作者：多个作者只需填写中心成员靠前的一位，排名在类别中体现。

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 | 核磁共振波谱仪 | 改装 | 改装原有设备上机检测装置，为设备正常高效运行做出了改进。使用反应良好。 | 授权实用新型专利一项：CN219935676U | 校内同种设备中推广使用 |
| 2 | 扫描电子显微镜 | 改装 | 改装原有设备样品台清扫装置，提升设备良好率，保障设备高效长时间运行。使用反应良好。 | 授权实用新型专利一项：CN220216051U | 校内同种设备中推广使用 |

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 | 24篇 |
| 国际会议论文数 | 4篇 |
| 国内一般刊物发表论文数 | 2篇 |
| 省部委奖数 | 7项 |
| 其它奖数 | 1项 |

注：国内一般刊物：除“（二）2”以外的其他国内刊物，只填汇总数量。