

聊城大学学报

自然科学版

2024 年

第 1-6 期(总第 151-156 期)

第 37 卷

总目次

第 1 期(总第 151 期)

· 光纤通信与信息处理 ·

- 超紧凑抛物线形硅基光模斑转换器 袁博,姜浩,刘艺林,张赞允(1)
- 部分相干径向偏振环形艾里涡旋光束在大气湍流中的传输特性研究
..... 张华立,刘泽琳,罗亚梅,张汉乐,雍康乐(9)
- 基于 TiO_2 的近红外大数值孔径、高聚焦效率、高透射率会聚透镜
..... 李真,牛慧娟,高松,范鑫烨,段晓峰,黄永清(16)
- 基于双量子数调制光通信系统的噪声滤除 张建东,王帅(23)

· 新材料与智能制造 ·

- Laves 相稀土-过渡族金属间化合物 $\text{Tb}_{1-x}\text{Dy}_x\text{Co}_{1.95}$ 的磁学性质及相变研究
..... 曹康,戴志勇,张睿升,姚康康,郭远军,周超,杨森(29)
- $\text{Mo-Zn}_{0.5}\text{Cd}_{0.5}\text{S}@\text{NiCo}_2\text{S}_4$ 掺杂-异质结体系的制备及其双功能光催化性能研究
..... 牛杰,王亮,孟祥超,李春虎(36)
- 三维角联锁机织铺层复合材料的开孔拉伸性能 吴宁,孟影,朱超,侯琦琳(46)
- $\text{Cu}_3\text{Mo}_2\text{O}_9/\text{Mn}_{0.3}\text{Cd}_{0.7}\text{S}$ S 型异质结的构筑及其光解水产氢性能研究
..... 于佳慧,姚欣彤,苏萍,王仕凯,张大凤,葛博,蒲锡鹏(52)
- AlCrFeMoSi_x 高熵合金的显微组织和性能研究
..... 郝雪卉,齐明洋,李学军,刘文阁,张娣,战艳虎,王长征(62)
- 硫掺杂 $g\text{-C}_3\text{N}_4$ 制备及其光催化产氢性能研究
..... 李星杰,孙玮,明邱焱,刘耀程,廖国东,王海涛,江吉周(70)
- 高力学性能水凝胶研究进展 邹少爽,杨朋,刘涛(76)

· 生命科学与医药健康 ·

- 益母草注射液通过其生物碱成分上调 Tie-2、VEGFR2 和 VEGF 促进斑马鱼血管新生
..... 李玉芝,宋肖敏婷,王雯雯,周欣雨,黎娅琳,任吉霞,曹治兴(85)
- O-GlcNAc 糖基化修饰的研究进展 王梦荷,郑路,孟领航,王佳佳(92)
- 刺激响应型纳米载体的设计和研究进展 徐杰,李英兰,张怀珍,刘敏,赵燕娜(102)

第2期(总第152期)

• 智能控制理论与应用 •

- 多智能体系统中的同步问题综述 王晓,夏建伟,付世华,冯俊娥(1)
- 单连杆柔性关节机械臂的高阶滑模控制器设计 谢仕培,孙伟(9)
- 基于优化奇偶重构法的光伏阵列自适应重构技术设计
..... 易灵芝,程斯岳,王雅慧,罗伯特,范律,谭靖萱(19)

• 新材料与智能制造 •

- Cr 掺杂 $\text{Ca}_2\text{Ga}_2\text{GeO}_7$ 宽带近红外光材料的制备及性能研究 黄帅,颜雨,尚蒙蒙(34)
- $\text{Yb}^{3+}/\text{Ho}^{3+}$ 共掺杂 $\text{Sc}_2\text{W}_3\text{O}_{12}$ 荧光粉的上转换发光和温度传感特性 杜慧敏,杨骏,胡珊珊(42)
- 黑磷光催化研究进展 李舟,周维创,虞梦雪,伍晓锋,黄子宾,吕康乐(50)
- Fe-N-C 单原子纳米酶用于比色-电化学法检测 H_2O_2 胡丽君,李佳慧,翟艳玲(62)
- 碳点/铁酸镍复合光催化剂的宽光谱芬顿降解四环素研究 袁浩,孙鑫海,李瑞广,施伟龙,郭峰(69)

• 生命科学与医药健康 •

- 环糊精糖基转移酶 JSL-1 的鉴定及功能研究 李茹,丁欣杰,商金海,秦林雪,魏铠,王月,李攀(80)
- 一株 3,5,6-三氯-2-吡啶酚降解菌 *Delftia* sp. DFT 的分离鉴定及降解途径研究
..... 贾楠,岳彩旭,吕雪茹,王雪婷,丁宁,王圣惠(89)
- 生物法合成熊去氧胆酸研究进展 张雪,张悦,刘梦雨,栾浩妮,宋鹏,周正松,王飞,徐伟(101)

第3期(总第153期)

• 光纤通信与信息处理 •

- 300 MHz、139 fs 全光纤超短脉冲激光器 黄玺玮,李晓辉,郭潇潇,唐旭,张锐(1)
- 高增益反射型超表面多波束双频天线设计 徐娟,杨科心(8)
- 面向 6G 通信的 SnSe_2 薄膜太赫兹波探测器 彭忠泽,高飞龙,阮振宇,张敏,宋琦,张丙元(14)

• 新材料与智能制造 •

- 改性氮化碳/铜基 MOF 纳米复合材料修饰电极对草甘膦的电化学检测研究
..... 王琪,刘瑶,舒傲澜,熊婵如,陈星(22)
- 物相调控对铈酸钠纳米棒压电-弱可见光协同催化的优化作用
..... 刘洋,张淑乐,李欣玥,刘嫣然,卢佳杉,卢相扬,许柘宓(34)
- 生物碳导电剂增强印染废水脱盐性能研究 边圣杰,贾鑫,喻成龙,鲁美娟,赖发英,李丹萍(42)
- 固溶冷却方式对新型高强近 β 钛合金 Ti-5321 微观组织及力学性能的影响
..... 宋博,安明宇,王红阳,王一森,甄金明(53)
- 两类农用棚膜防雾滴涂层表面张力 王秀珍,滕谋勇,杨铭霞,李梦瑶,贾清,战艳虎(62)

• 生命科学与医药健康 •

- 植物热激蛋白功能及表达调控的研究进展 门淑珍,李桂忱,温馨雨(69)
- 大叶梅属地衣内生真菌的多样性及抗菌活性研究 郭堂丽,武玉岩,崔璨,赵欣(80)

枯草芽孢杆菌微囊泡的高效分离及其抗炎活性研究	
..... 郑丽雪,康秋艳,娄静怡,冯靖涵,范宗强,王硕,陈芳(90)	
含喹唑啉-4-酮结构的芳氧苯氧丙酸二苯醚酯衍生物的设计、合成及除草活性研究	
..... 李娜,王淑敏,韩世博,雷康(99)	

第 4 期(总第 154 期)

• 智能控制理论与应用 •

一类新的单机工期指派模糊调度算法研究	易国荣,李金权,顾文豪(1)
基于自抗扰采样控制的车辆转向跟踪	刘亚辉,高子凡,朱淑倩,王庭瑞(14)
基于 DQN 出价策略的多无人机目标分配拍卖算法	陈梓豪,胡春鹤(23)
基于预定义时间收敛的容噪零化神经网络求解时变 Sylvester 方程	岳远达,宓玲,陈川(33)
欺骗攻击下奇异跳变系统状态感知事件触发 H_∞ -脉冲混杂反馈控制	
..... 逢钰婧,吴一凡,朱静娟,孟亚楠,庄光明(43)	

• 新材料与智能制造 •

氧化温度对氧化石墨烯结构的影响	徐长安,胡洋,杨卓鸿(57)
$\text{LiLu}(\text{MoO}_4)_2:\text{Eu}^{3+}$ 的制备及其对 Fe^{3+} 离子的荧光检测研究	杨杰,蒋玥,杨骏,胡珊珊(64)
$\text{BaTiO}_3-x\text{Bi}(\text{Mg}_{2/3}\text{Sb}_{1/3})\text{O}_3$ 陶瓷的储能特性研究	詹圣晖,任香,张立华,李朋,郝继功,李伟(70)
SiC 量子点敏化 $\text{g-C}_3\text{N}_4$ 光阳极在光催化燃料电池中的应用	王智皓,龙腾文,冯建光,孙琼(78)
多金属氧簇电催化转化研究进展	刘港,孙凤至,付仕祺,李英杰,李振,黄现强(89)
三维钛酸铜钙/环氧树脂-氮化硼复合电介质的介电松弛行为研究	
..... 张冬梅,薛文清,杨永志,郭文彬,杨硕,李雨凡,李玉超(103)	

第 5 期(总第 155 期)

• 智能控制理论与应用 •

5 Hz 经颅脉冲电刺激对 EEG 影响的研究	孙海博,刘皓(1)
一类输出受限机械系统的鲁棒自适应容错跟踪	任世纪,孙宗耀,赵军圣(8)
线性时变时滞切换系统的区间指数稳定/镇定	戴玉真,张化生(18)
具有未知输出函数的非线性时滞系统的输出反馈稳定	董伟,蒋蒙蒙,牛霄(29)
基于不确定时间序列的外汇储量智能预测	朱佳璇,刘利英(41)

• 光纤通信与信息处理 •

室内 VLC-WiFi 异构网络中多色载波资源分配	陈勇,张薇薇,刘焕淋,陈金林(48)
一种新型共面波导馈电 Ku 波段准八木贴片天线的设计	
..... 李沅昊,牛慧娟,陈庆涛,位健,段晓峰,刘凯,黄永清(60)	
基于全介质缺陷纳米四聚体超结构的高灵敏度折射率传感器	
..... 孙庆贺,范鑫烨,房文敬,曹爽爽,王丹丹,牛慧娟,陶继方(68)	
基于飞秒激光刻写的微腔型波导马赫-曾德干涉器及其折射率传感性能研究	
..... 徐堃,玄成聪,张燕青,姚一村,解艳茹(76)	

• 新材料与智能制造 •

- 自修复硅橡胶的设计与修复机理 向鹏程, 查俊伟(84)
- 溶剂导向合成两个氢键型金属有机框架 王飞(102)
- 光聚合法制备多孔微球及其在防腐涂层中的应用 陈林洋, 陶俊杰, 罗静(111)
- 0D/1D $\text{Cd}_{0.5}\text{Zn}_{0.5}\text{S}/\text{VO}_2$ S 型异质结的构建及其可见光催化析氢性能研究
..... 苏萍, 于佳慧, 邓培新, 渠德梁, 梁腾腾, 赵怀昊, 杨楠, 张大凤, 葛博, 蒲锡鹏(123)

• 生命科学与医药健康 •

- 编码免疫检查点抑制剂的溶瘤病毒: 免疫联合治疗新思路 李佳泽, 孙涛, 申健(132)
- 氨基酸手性分子传感识别研究进展 杜莹莹, 元丽梅, 赵桂英, 刘浩驰(144)
- 英夫利西单抗糖化方法开发验证及其在抗体药物中的普适性 徐梦娇,
刘涛, 徐进, 郭清城, 付蓉蓉, 赵香, 王福贵, 宋兰坤, 冀芦沙, 钱卫珠, 侯盛, 李军, 张大鹏, 郭怀祖(155)
- 多糖基化位点抗体药物质控中基于单四级杆的多属性分析方法开发与验证 王福贵, 刘涛, 李锦豪, 徐梦娇,
付蓉蓉, 赵香, 聂爱英, 宋兰坤, 陈熙, 冀芦沙, 钱卫珠, 侯盛, 李军, 徐忠升, 范文强, 张大鹏, 徐进, 郭清城(169)
- 基于 Wnt/ β -catenin 信号通路的 DKK-1 抗体药物生物活性报告基因法开发与评估
..... 赵香, 侯盛, 徐进, 张大鹏, 付蓉蓉, 徐梦娇, 王福贵, 钱卫珠, 李军(183)

第 6 期(总第 156 期)

• 新材料与智能制造 •

- 锌碘电池碘正极研究进展 侯家刚, 薛子龙, 马文庆, 简天真, 徐彩霞(1)
- 易回收型光催化剂的研究进展 邓浩, 周琦, 李强, 李乐怡, 章思羽, 王齐(10)
- $\text{Ga}_2\text{O}_3: \text{Cr}^{3+}$ 多中心到单中心发射以及光谱可调的实现
..... 夏成龙, 陈煜辉, 曾炳阳, 杨佳慧, 李玲, 王治国, 刘晓光(29)
- $\text{Bi}_2\text{O}_2(\text{OH})\text{Cl}/\text{Bi}/\text{Bi}_2\text{O}_3$ 异质结的构筑及其光催化合成 H_2O_2 性能研究
..... 高美超, 孙兆楠, 巩云云, 于光龙, 冯媛媛(39)
- 非润湿碳化 BiOBr 蒸发器的构筑及其在清洁水生产中的应用
..... 秦元辉, 张晓龙, 葛博, 张同辉, 任桂娜(49)
- 红薯淀粉凝胶衍生多孔碳的制备及其在染料敏化太阳能电池对电极中的研究
..... 岳思源, 赵一倩, 周华伟(56)
- 浸泡温度和时间对海洋结构钛合金耐腐蚀性能的影响
..... 宋博, 安明宇, 倪俊杰, 刘金刚, 程思尧, 李依萍, 李梦如, 李建勋, 郭博后, 刘威(62)

• 生命科学与医药健康 •

- 毛菊苣的保肝作用及其机制 高月锋, 秦冬梅(71)
- 湿法研磨技术制备纳米制剂及质量评价研究进展 魏其鹏, 吴恒乾, 布汝朋, 王利利, 王正平, 韩军(78)
- 光催化剂钨酸铋的形貌对罗丹明 B 吸附行为的热力学研究 张用芳, 陈爱菊, 米玉伟, 刘敏, 曾涑源(87)
- 中国小核衣属(小核衣科)地衣二新记录种 李洁晨, 豆明珠, 贾泽峰(96)
- 中国黄海自由生活海洋线虫物种名录 孙晓逸, 白若冰, 翟红秀, 黄勇(108)

JOURNAL OF LIAOCHENG UNIVERSITY

EDITION NATURAL SCIENCE Contents of Volume 37(2024)

No. 1(Sum No. 151)

• Optical Fiber Communication and Information Processing •

- Ultra-Compact Parabolic Silicon Based Optical Mode-Spot Converter YUAN Bo,JIANG Hao,LIU Yilin,ZHANG Zanyun(1)
- Propagation Characteristics of Partially Coherent Radially Polarized Ring Airy Vortex Beams in Atmospheric Turbulence ... ZHANG Huali, LIU Zelin, LUO Yamei, ZHANG Hanle, YONG Kangle(9)
- Focusing Lens with Large Numerical Aperture, High Focusing Efficiency and High Transmissivity Based on TiO_2 in the Near Infrared Operating LI Zhen, NIU Huijuan, GAO Song, FAN Xinye, DUAN Xiaofeng, HUANG Yongqing(16)
- Noise Filtering of Optical Communication Systems Based on Two Modulated Quantum Numbers ZHANG Jiandong, WANG Shuai(23)

• Advanced Materials and Intelligent Manufacturing •

- Study on Magnetic Properties and the Nature of Phase Transition of Laves Phase Rare Earth-Transition Metal Compounds $\text{Tb}_{1-x}\text{Dy}_x\text{Co}_{1.95}$ CAO Kang, DAI Zhiyong, ZHANG Ruisheng, YAO Kangkang, GUO Yuanjun, ZHOU Chao, YANG Sen(29)
- Preparation of $\text{Mo-Zn}_{0.5}\text{Cd}_{0.5}\text{S}@\text{NiCo}_2\text{S}_4$ Doped-Heterojunction System and Its Bifunctional Photocatalytic Performance NIU Jie, WANG Liang, MENG Xiangchao, LI Chunhu(36)
- Tensile Properties of Notched 3D Angle Interlock Woven Layup Composites WU Ning,MENG Ying,ZHU Chao,HOU Qilin(46)
- Construction of $\text{Cu}_3\text{Mo}_2\text{O}_9/\text{Mn}_{0.3}\text{Cd}_{0.7}\text{S}$ S-Scheme Heterojunction for Photocatalytic Hydrogen Production via Water Splitting YU Jiahui, YAO Xintong, SU Ping, WANG Shikai, ZHANG Dafeng, GE Bo, PU Xipeng(52)
- Study on the Microstructure and Properties of AlCrFeMoSi_x High Entropy Alloys HAO Xuehui,QI Mingyang,LI Xuejun,LIU Wenge,ZHANG Di,ZHAN Yanhu,WANG Changzheng(62)
- Preparation of Sulfur-Doped $\text{g-C}_3\text{N}_4$ and Its Photocatalytic Performance for Hydrogen Evolution LI Xingjie, SUN Wei, MING Qiuyan, LIU Yaocheng, LIAO Guodong, WANG Haitao, JIANG Jizhou(70)
- Research Progress of Hydrogels with High Mechanical Properties ZOU Shaoshuang, YANG Peng, LIU Tao(76)

• Life Sciences and Medicine Health •

- Motherwort Injection Promotes Angiogenesis Via Alkaloid-Induced Upregulation of Tie-2, VEGFR2 and VEGF in Zebrafish Model LI Yuzhi, SONG Xiaomiting, WANG Wenwen, ZHOU Xinyu, LI Yalin, REN Jixia, CAO Zhixing(85)
- Progress of O-GlcNAc Modification WANG Menghe, ZHENG Lu, MENG Linghang, WANG Jiajia(92)
- Design and Research Progress of Stimulus-Responsive Nanocarriers XU Jie, LI Yinglan, ZHANG Huaizhen, LIU Min, ZHAO Yanna(102)

No. 2(Sum No. 152)

• Intelligent Control Theory and Applications •

- A Survey on Synchronization to Multi-Agent Systems WANG Xiao,XIA Jianwei,FU Shihua,FENG June(1)
- High Order Sliding Mode Controller Design for Single-Link Flexible Joint Manipulator XIE Shiyu,SUN Wei(9)
- Design of Adaptive Reconfiguration Technique for PV Arrays based on Optimized Odd Even Configuration Method YI Lingzhi, CHENG Siyue, WANG Yahui, LUO Bote, FAN Lü, TAN Jixuan(19)

• Advanced Materials and Intelligent Manufacturing •

Preparation and Photoluminescence Properties of Cr-Doped $\text{Ca}_2\text{Ga}_2\text{GeO}_7$ Broadband Near-Infrared Materials	HUANG Shuai, YAN Yu, SHANG Mengmeng(34)
Upconversion Luminescence and Temperature Sensing Properties of $\text{Yb}^{3+}/\text{Ho}^{3+}$ Co-Doped $\text{Sc}_2\text{W}_3\text{O}_{12}$ Phosphors	DU Huimin, YANG Jun, HU Shanshan(42)
Progress of Black Phosphorus in Photocatalysis	LI Zhou, ZHOU Weichuang, YU Mengxue, WU Xiaofeng, HUANG Zibin, LÜ Kangle(50)
Fe-N-C Single-Atom Nanozymes for Colorimetric and Electrochemical Detection of H_2O_2	HU Lijun, LI Jiahui, ZHAI Yanling(62)
Achieving High - Efficient Broad Spectrum Driven Photo - Fenton Degradation of Tetracycline via Carbon Dots Modified NiFe_2O_4 Nanoparticles	YUAN Hao, SUN Xinhai, LI Ruiguang, SHI Weilong, GUO Feng(69)
• Life Sciences and Medicine Health •	
Identification and Functional Study of Cyclodextrin Glycosyltransferase JSL-1	LI Ru, DING Xinjie, SHANG Jinhai, QIN Linxue, WEI Kai, WANG Yue, LI Pan(80)
Isolation, Identification and Degradation Pathway Study of a 3, 5, 6-trichloro-2-pyridinol Degrading Strain <i>Delftia</i> sp. DFT	JIA Nan, YUE Caixu, LÜ Xueru, WANG Xueting, DING Ning, WANG Shenghui(89)
Bio-synthesis progress of Ursodeoxycholic Acid	ZHANG Xue, ZHANG Yue, LIU Mengyu, LUAN Haoni, SONG Peng, ZHOU Zhengsong, WANG Fei, XU Wei(101)

No. 3(Sum No. 153)

• Optical Fiber Communication and Information Processing •

300 MHz, 139 fs All-Fiber Ultra-Short Pulse Laser	HUANG Xiwei, LI Xiaohui, GUO Xiaoxiao, TANG Xu, ZHANG Rui(1)
Design of High Gain Reflecting Metasurface Multi-Beam Dual-Band Antenna	XU Juan, YANG Kexin(8)
Terahertz Wave Detection in SnSe_2 Thin Films for 6G Communication Applications	PENG Zhongze, GAO Feilong, RUAN Zhenyu, ZHANG Min, SONG Qi, ZHANG Bingyuan(14)

• Advanced Materials and Intelligent Manufacturing •

Functionalized Carbon Nitride/Copper-based MOF Nanocomposites Modified Electrode for Electrochemical Detection of Glyphosate	WANG Qi, LIU Yao, SHU Aolan, XIONG Chanru, CHEN Xing(22)
Phase Engineering of Sodium Niobate Nanorods for Weak Visible-light Photo-Piezoelectric Synergistic Catalyst Optimization	LIU Yang, ZHANG Shule, LI Xinyue, LIU Yanran, LU Jiashan, LU Xiangyang, XU Zhemi(34)
Bio-Carbon as Conductive Agent for Desalination of Printing and Dyeing Wastewater	BIAN Shengjie, JIA Xin, YU Chenglong, LU Meijuan, LAI Faying, LI Danping(42)
Effect of Cooling Method After Solution on Microstructure and Mechanical Properties of New Near- β Ti Alloy Ti-5321	SONG Bo, AN Mingyu, WANG Hongyang, WANG Yisen, ZHEN Jinming(53)
Surface Tension of Two Types of Antifogging Coating for Farm Shed Film	WANG Xiuzhen, TENG Mouyong, YANG Mingxia, LI Mengyao, JIA Qing, ZHAN Yanhu(62)

• Life Sciences and Medicine Health •

Research Progress on Function and Expression Regulation of Plant Heat Shock Proteins	MEN Shuzhen, LI Guichen, WEN Xinyu(69)
The Diversity and Antimicrobial Activity of Endolichenic Fungi from <i>Parmotrema</i>	GUO Tangli, WU Yuyan, CUI Can, ZHAO Xin(80)
Study on the Efficient Isolation and Anti-Bacterial Activity of <i>Bacillus Subtilis</i> Micro-Vesicles	ZHENG Lixue, KANG Qiuyan, LOU Jingyi, FENG Jinghan, FAN Zongqiang, WANG Shuo, CHEN Fang(90)
Design, Synthesis and Herbicidal Activity of Diphenyl Ether Aryloxyphenoxypropionate Derivatives Containing Quinazolin-4-one Motif	LI Na, WANG Shumin, HAN Shibo, LEI Kang(99)

No. 4(Sum No. 154)

• Intelligent Control Theory and Applications •

- A New Fuzzy Scheduling Algorithm for Single Machine Duration Assignment YI Guorong, LI Jinquan, GU Wenhao(1)
Vehicle Steering Tracking Based on Sampled-Data Active Disturbance Rejection Control
..... LIU Yahui, GAO Zifan, ZHU Shuqian, WANG Tingrui(14)
Multi Drones Target Allocation Auction Algorithm Based on DQN Bidding Strategy CHEN Zihao, HU Chunhe(23)
Predefined-Time Convergence-Based Noise-Tolerant Zeroing Neural Networks for Solving the Time-Varying Sylvester Equation
..... YUE Yuanda, MI Ling, CHEN Chuan(33)
State-Sensitive Event-Triggered H_∞ -Impulse Hybrid Feedback Control for Singular Jump Systems under Spoofing Attacks
..... PANG Yujing, WU Yifan, ZHU Jingjuan, MENG Yanan, ZHUANG Guangming(43)

• Advanced Materials and Intelligent Manufacturing •

- Influence of Oxidation Temperature on the Structure of Graphene Oxide ... XU Changan, HU Yang, YANG Zhuohong(57)
Preparation of $\text{LiLu}(\text{MoO}_4)_2:\text{Eu}^{3+}$ and Its Fluorescence Detection for Fe^{3+} Ions
..... YANG Jie, JIANG Yue, YANG Jun, HU Shanshan(64)
Research on Energy Storage Characteristics of $\text{BaTiO}_3-x\text{Bi}(\text{Mg}_{2/3}\text{Sb}_{1/3})\text{O}_3$ Ceramics
..... ZHAN Shenghui, REN Xiang, ZHANG Lihua, LI Peng, HAO Jigong, LI Wei(70)
Application of SiC Quantum Dot Sensitized g- C_3N_4 Photoanode in Photocatalytic Fuel Cells
..... WANG Zhihao, LONG Tengwen, FENG Jianguang, SUN Qiong(78)
Research Progress of Polyoxometalates in Electrocatalytic Chemical Conversion
..... LIU Gang, SUN Fengzhi, FU Shiqi, LI Yingjie, LI Zhen, HUANG Xianqiang(89)
Dielectric Relaxation Behavior of Three-Dimensional Copper Calcium Titanate/Epoxy-Boron Nitride Composite Dielectrics ...
..... ZHANG Dongmei, XUE Wenqing, YANG Yongzhi, GUO Wenbin, YANG Shuo, LI Yufan, LI Yuchao (103)

No. 5(Sum No. 155)

• Intelligent Control Theory and Applications •

- Study of the Effect of 5 Hz Transcranial Pulsed Electrical Stimulation on the EEG SUN Haibo, LIU Hao(1)
Robust Adaptive Fault-Tolerant Tracking for a Class of Mechanical Systems with Output Constraints
..... REN Shiji, SUN Zongyao, ZHAO Junsheng(8)
Interval Exponential Stability/Stabilization for Linear Time-Varying Delay Switched Systems
..... DAI Yuzhen, ZHANG Huasheng(18)
Output Feedback Stabilization of Nonlinear Time-Delay Systems with Unknown Output Function
..... DONG Wei, JIANG Mengmeng, NIU Xiao(29)
Intelligent Prediction for Foreign Exchange Reserves Based on Uncertain Time Series ZHU Jiaxuan, LIU Liying(41)

• Optical Fiber Communication and Information Processing •

- A Method of Multi-Color Carrier Resource Allocation for Indoor VLC-WiFi Heterogeneous Network
..... CHEN Yong, ZHANG Weiwei, LIU Huanlin, CHEN Jinlin(48)
Design of a Novel Coplanar Waveguide Fed Ku-Band Quasi-Yagi Patch Antenna
..... LI Yuanhao, NIU Huijuan, CHEN Qingtao, WEI Jian, DUAN Xiaofeng, LIU Kai, HUANG Yongqing(60)
Highly Sensitive Refractive Index Sensor Based on All-Dielectric Defective Nanotetramer Metastructure
..... SUN Qinghe, FAN Xinye, FANG Wenjing, CAO Shuangshuang, WANG Dandan, NIU Huijuan, TAO Jifang(68)
Research on Microcavity Waveguide Mach-Zender Interferometer and Its Refractive Index Sensing Performance Based on Femtosecond
Laser Writing XU Kun, XUAN Chengcong, ZHANG Yanqing, YAO Yicun, XIE Yanru(76)

• Advanced Materials and Intelligent Manufacturing •

- Design and Healing Mechanism of Self-Healing Silicone Rubber XIANG Pengcheng, ZHA Junwei(84)

- Solvent-Directed Syntheses of Two Hydrogen-Bonded Metal-Organic Frameworks WANG Fei(102)
- Application of Porous Polymer Microspheres Based on Photopolymerization Technology in Anti-Corrosion Coatings
..... CHEN Linyang, TAO Junjie, LUO Jing(111)
- Construction of 0D/1D Cd_{0.5}Zn_{0.5}S/VO₂ S-Scheme Heterojunction for Visible Light Photocatalytic Hydrogen Generation via
Water Splitting SU Ping, YU Jiahui,
DENG Peixin, QU Deliang, LIANG Tengting, ZHAO Huaihao, YANG Nan, ZHANG Dafeng, GE Bo, PU Xipeng(123)

• Life Sciences and Medicine Health •

- Oncolytic Viruses Encoding Immune Checkpoint Inhibitors : A New Approach to Immunotherapy Combinatorial Treatment
..... LI Jiaze, SUN Tao, SHEN Jian(132)
- Research Progress in Chiral Molecular Sensing Recognition of Amino Acids
..... DU Yingying, QI Limei, ZHAO Guiying, LIU Haochi(144)
- Development and Validation of a Glycation Analysis Method for Infliximab and Its Universal Application Across Antibody
Drugs XU Mengjiao, LIU Tao, XU Jin, GUO Qingcheng, FU Rongrong, ZHAO Xiang,
WANG Fugui, SONG Lankun, JI Lusha, QIAN Weizhu, HOU Sheng, LI Jun, ZHANG Dapeng, GUO Huaizu(155)
- Development and Validation of a Quadrupole Dalton-Based Multi-Attribute Method for the Quality Control of an Antibody Drug
with Multiple Glycosylation Sites WANG Fugui,
LIU Tao, LI Jinhao, XU Mengjiao, FU Rongrong, ZHAO Xiang, NIE Aiyang, SONG Lankun, CHEN Xi, JI Lusha,
QIAN Weizhu, HOU Sheng, LI Jun, XU Zhongsheng, FAN Wenqiang, ZHANG Dapeng, XU Jin, GUO Qingcheng(169)
- Development and Evaluation of a Reporter Gene Assay for DKK-1 Antibody Drugs Based on the Wnt/ β -Catenin Pathway
ZHAO Xiang, HOU Sheng, XU Jin, ZHANG Dapeng, FU Rongrong, XU Mengjiao, WANG Fugui, QIAN Weizhu, LI Jun(183)

No. 6(Sum No. 156)

• Advanced Materials and Intelligent Manufacturing •

- Research Status and Prospect of Iodine Positive Electrode for Zinc-Iodine Batteries
..... HOU Jiagang, XUE Zilong, MA Wenqing, JIAN Tianzhen, XU Caixia(1)
- Research Progress on Recyclable Photocatalyst DENG Hao, ZHOU Qi, LI Qiang, LI Leyi, ZHANG Siyu, WANG Qi(10)
- Ga₂O₃: Cr³⁺ Multi-Center to Single-Center Emission and Spectral Tunable Realization
..... XIA Chenglong, CHEN Yuhui, ZENG Bingyang, YANG Jiahui, LI Ling, WANG Zhiguo, LIU Xiaoguang(29)
- Construction of Bi₂O₂(OH)Cl/Bi/Bi₂O₃ Heterojunction with Enhanced Photocatalytic H₂O₂ Production Performance
..... GAO Meichao, SUN Zhaonan, GONG Yunyun, YU Guanglong, FENG Yuanyuan(39)
- Construction of Non-Wetting Carbonized BiOBr and Its Application in Clean Water Production
..... QIN Yuanhui, ZHANG Xiaolong, GE Bo, ZHANG Tonghui, REN Guina(49)
- Preparation of Gel-Derived Porous Carbon from Sweet Potato Starch and Its Study in Counter Electrode of Dye-Sensitized Solar
Cell YUE Siyuan, ZHAO Yiqian, ZHOU Huawei(56)
- Effect of Immersing Temperature and Duration on Corrosion Resistance of Ti Alloy in Marine Field SONG Bo,
AN Mingyu, NI Junjie, LIU Jingang, CHENG Siyao, LI Yiping, LI Mengru, LI Jianxun, GUO Bohou, LIU Wei(62)

• Life Sciences and Medicine Health •

- Hepatoprotective Effect and Mechanism of *Cichorium Glandulosum* GAO Yuefeng, QIN Dongmei(71)
- Progress in the Preparation and Quality Evaluation of Nanoformulations Using Wet Media Milling Technology
..... WEI Qipeng, WU Hengqian, BU Rupeng, WANG Lili, WANG Zhengping, HAN Jun(78)
- Thermodynamic Studies on the Adsorption Processes of Rhodamine B on Bismuth Tungstate Photocatalyst of Different
Morphologies ZHANG Yongfang, CHEN Aiju, MI Yuwei, LIU Min, ZENG Suyuan(87)
- Two New Records of the Genus *Pyrenula* (Pyrenulaceae) from China LI Jiechen, DOU Mingzhu, JIA Zefeng(96)
- Species List of Free-Living Marine Nematodes in the Yellow Sea, China
..... SUN Xiaoyi, BAI Ruobing, ZHAI Hongxiu, HUANG Yong(108)