



## 目 次

### · 轻工技术与工程 ·

- 三联吡啶锌配合物改性氧化纳米纤维素薄膜的溶剂致变色研究 ..... 李新平, 张 蒙, 张 召, 等(1)
- 云母粒径对芳纶云母纸基绝缘材料性能的影响 ..... 张美云, 袁世波, 宋顺喜, 等(6)
- MIL-101(Cr)/PI 纤维纸基复合材料对高温烟气过滤性能研究 ..... 陆赵情, 张 楠, 谢 璠, 等(13)
- 羧甲基纤维素纤维吸附材料结构性能研究 ..... 王 建, 刘 敏, 孙健鹏, 等(19)
- 干燥方法对酸水解纤维素形貌及结构的影响 ..... 孟卿君, 郭凌华, 陈彦欣, 等(25)
- 缩水甘油醚交联改性胶原蛋白施胶剂的制备及其性能 ..... 陈 珂, 王学川, 李 伟, 等(30)

### · 食品科学与生物工程 ·

- 两种乙酰化马铃薯淀粉流变及凝胶特性的对比研究 ..... 蒲华寅, 郭 瑾, 李艳芳, 等(36)
- 高分辨熔解技术在食品真实溯源检测中的应用 ..... 徐秦峰, 马西亚, 闵红卫, 等(42)
- 超高效液相色谱-四级杆飞行时间质谱联用法分析罗非鱼中抗生素残留 ..... 贾 玮, 张焱茜, 邹 力, 等(51)
- 基于 PDMS 编制多目标物核酸检测试纸的研究 ..... 唐蕊华, 刘丽娜, 张素凤, 等(56)
- S-DABO 类逆转录酶抑制剂的 Topomer CoMFA 及分子对接 ..... 仝建波, 王 洋, 雷 珊, 等(63)

### · 化学与化学工程 ·

- KH-570 对阳离子丙烯酸树脂/醇酸树脂杂化乳液性能的影响 ..... 费贵强, 赵华登, 李小瑞, 等(71)

稀土铈/聚氨酯转光高分子材料的制备及发光性能研究 .....	李运涛, 韩振斌, 阮方毅, 等(76)
一种弹性体包覆型滑爽硅微粉的制备与性能研究 .....	安秋凤, 刘 倩, 王笑鸽, 等(82)
4-芳硫基吡喃酮类化合物的合成研究 .....	张 金, 庄瑜瑜, 马养民, 等(87)
一种基于联苯四羧酸配体的 Co 配合物的合成、表征及磁性研究 .....	马养民, 徐 历, 康祎璠, 等(93)
渤海稠油油田聚合物驱阶段注采特征研究 .....	敖文君, 阚 亮, 田津杰, 等(98)
碳封存过程中溶蚀作用对岩石渗透性的影响 .....	田 巍, 邓瑞健, 李中超, 等(103)
• 材料科学与工程 •	
铈掺量对羟基磷灰石结构及吸附性能的影响 .....	殷海荣, 张 森, 白建光, 等(110)
$\text{Na}_{0.5}\text{Sr}_{0.25}\text{NbO}_3:0.03\text{Eu}^{3+}$ 荧光粉的形貌演变与光学性能研究 .....	史永胜, 吴 丹, 曹舒尧(116)
球状 $\text{BiOCl}/\text{Bi}_2\text{O}_3$ 异质结的制备及其吸附性能研究 ..	任慧君, 王 琛, 谈国强, 等(123)
改性氧化石墨烯对轻质水泥基复合材料结构及性能的影响 .....	吕生华, 雷 颖, 朱琳琳, 等(129)
Ga 对 Al-Mg-Sn 合金腐蚀行为和力学性能的影响 .....	朱建锋, 卢 博, 杨 波, 等(136)
CF 表面改性及 PVD 法制备 Al 涂层的研究 .....	张伟刚, 赵雪妮, 刘军鹏, 等(141)
• 机械、电气工程与信息技术 •	
3-PPR 平面并联机构运动学与误差分析 .....	郑甲红, 刘杰林, 李 均, 等(147)
蒸发壁式超临界水氧化能量回收的模拟研究 .....	陈海峰, 陈久林(154)
基于 FPGA 与 Qsys 的宽带高精度频率计的设计与实现 .....	张俊涛, 王 帅(163)
基于偏微分法的光度立体三维重建 .....	李 健, 张博文, 何 斌(170)
• 物理与数学科学 •	
一类具有常数免疫输入的病毒-免疫应答动力学模型分析 .....	李亚男, 王晓琴, 李健全(176)



# Journal of Shaanxi University of Science & Technology

Published on Dec. 25, 2018

Vol. 36

No. 6

Sum No. 181

## CONTENTS

Study on solvatochromic research of oxidized cellulose nanofibril film modified by terpyridine-zinc complex .....	LI Xin-ping, ZHANG Meng, ZHANG Zhao, et al(1)
Influence of mica particle size on the properties of aramid mica paper-based insulation materials .....	ZHANG Mei-yun, YUAN Shi-bo, SONG Shun-xi, et al(6)
Study on filtration performance of MIL-101(Cr)/PI fiber paper-based composites for hot gas .....	LU Zhao-qing, ZHANG Nan, XIE Fan, et al(13)
Study on structural properties of carboxymethyl cellulose fiber adsorbent material .....	WANG Jian, LIU Min, SUN Jian-peng, et al(19)
Effect of drying method on morphology and structure of acid hydrolyzed cellulose .....	MENG Qing-jun, GUO Ling-hua, CHEN Yan-xin, et al(25)
Preparation and properties of sizing agent by crosslinking of modified collagen with glycidyl ether .....	CHEN Ke, WANG Xue-chuan, LI Wei, et al(30)
Comparative study on rheological and gel properties of two kinds of acetylated potato starch .....	PU Hua-yin, GUO Jin, LI Yan-fang, et al(36)
Applications of high resolution melting technique in food authentication and food traceability .....	XU Qin-feng, MA Xi-ya, MIN Hong-wei, et al(42)
Simultaneous determination of antibiotics drug residues in tilapia by ultra performance liquid chromatography coupled with quadrupole-time of flight mass spectrometry .....	JIA Wei, ZHANG Yan-xi, ZOU Li, et al(51)
Preparation of nucleic acid-based multiplex targets detection strip using polydimethylsiloxane .....	TANG Rui-hua, LIU Li-na, ZHANG Su-feng, et al(56)
Topomer CoMFA and molecular docking of S-DABO reverse transcriptase inhibitors .....	TONG Jian-bo, WANG Yang, LEI Shan, et al(63)
Effect of KH-570 on properties of cationic acrylic resin/alkyd resin hybrid emulsion .....	FEI Gui-qiang, ZHAO Hua-deng, LI Xiao-rui, et al(71)
Study on preparation and optical properties of rare earth europium modified polyurethane luminescent materials .....	LI Yun-tao, HAN Zhen-bin, RUAN Fang-yi, et al(76)

Study on preparation and properties of an elastomer coated sliding silicon micropowder .....	AN Qiu-feng , LIU Qian , WANG Xiao-ge , et al (82)
Study of synthesis of 4-arylthio-2 <i>H</i> -pyran-2-one derivatives .....	ZHANG Jin , ZHUANG Yu-yu , MA Yang-min , et al (87)
Synthesis,structure and magnetic property of Co complex based on tetracarboxylic-biphenyl ligand ...	MA Yang-min , XU Li , KANG Yi-fan , et al (93)
Study of the performance characteristics of injection and production on different stages in polymer flood- ing of Bohai heavy oil field .....	AO Wen-jun , KAN Liang , TIAN Jin-jie , et al (98)
The influence of dissolution on rock permeability during carbon dioxide geological storage .....	TIAN Wei , DENG Rui-jian , LI Zhong-chao , et al (103)
Effect of cerium content on hydroxyapatite structure and adsorption property .....	YIN Hai-rong , ZHANG Sen , BAI Jian-guang , et al (110)
Morphology evolution and optical properties of Na <sub>0.5</sub> Sr <sub>0.25</sub> NbO <sub>3</sub> :0.03Eu <sup>3+</sup> phosphors .....	SHI Yong-sheng , WU Dan , CAO Shu-yao (116)
Study on fabrication and adsorptive performance of spherical BiOCl/Bi <sub>2</sub> O <sub>3</sub> heterojunction .....	REN Hui-jun , WANG Chen , TAN Guo-qiang , et al (123)
Effect of modified graphene oxide on structure and properties of lightweight cement composites .....	LV Sheng-hua , LEI Ying , ZHU Lin-lin , et al (129)
Influence of gallium on corrosion behavior and mechanical properties of Al-Mg-Sn alloy .....	ZHU Jian-feng , LU Bo , YANG Bo , et al (136)
Study on surface modification of carbon fiber and preparation of Al coating by PVD method .....	ZHANG Wei-gang , ZHAO Xue-ni , LIU Jun-peng , et al (141)
Kinematics and error analysis of 3-PPR planar parallel mechanism .....	ZHENG Jia-hong , LIU Jie-lin , LI Jun , et al (147)
Simulation and optimization on energy recovery of the transpiring-wall supercritical water oxidation ...	CHEN Hai-feng , CHEN Jiu-lin (154)
Design and implementation of wide-band and high-precision frequency meter based on FPGA and Qsys .....	ZHANG Jun-tao , WANG Shuai (163)
Photometric stereo 3D reconstruction based on partial differential method .....	LI Jian , ZHANG Bo-wen , HE Bin (170)
Analysis of a class of virus-immune response dynamic model with constant immune input .....	LI Ya-nan , WANG Xiao-qin , LI Jian-quan (176)