

总 目 次

第 1 期

机械制造与自动化

- 仿生机器人研究进展及仿生机构研究 沈惠平,马小蒙,孟庆梅,李云峰,马正华(1)
- 面向笔记本外壳生产线的桁架机器人的研究和应用 佟 祯,邓嘉鸣,蒋永健,秦 娴(11)
- 原油管式加热炉对流室炉管腐蚀程度的声发射检测
..... 裴峻峰,代云聪,孙 旭,胡建启,陈园丽,刘亚新(16)
- 渐开线谐波式齿轮泵排量计算 李佑武,邹 旻,祝海林,宋培毅,刘子尧(21)

材料科学与工程

- 等离子喷涂 $\text{TiO}_2\text{-CeO}_2$ 复合涂层的结构及抗菌性能研究 赵晓兵,刘高鹏(26)
- 温度对浸镀锡镀层的影响 王钰蓉,曹小云,陈 靓,何嘉伟,光崎尚利,包伟良,陈智栋(32)
- 聚乳酸/纳米银负载二氧化硅复合材料的制备及性能 冯晋荃,张独伊,赵 鑫,王标兵(37)
- 交流电场作用下的中低碳钢低温粉末法渗硼 谢 飞,朱丽曼,程 健,潘建伟(41)

化学化工

- 萃取和热集成变压精馏分离异丙醇与异丙醚的模拟 叶 青,熊晓娟,秦继伟,徐 红,张 浩(46)
- 天然矿物合成分子筛的研究进展 韶 晖,陈晶晶(50)
- 点击化学应用于合成 1,2,3-三唑衍生物的研究进展 梁翠荣,金桂花,吴胜楠,陆 晨,陈 新(54)
- 树脂 D732 负载磷钨酸催化合成水杨酸正丁酯 蒋卫华,崔爱军,杨广花,罗士平(62)
- 冻干技术在注射用盐酸吉西他滨脂质体中的应用 王 燕,李 威,韩品新,舒 溢,刘 霞(66)
- 在线净化/LC-MS-MS 测定淡水鱼中孔雀石绿及隐性孔雀石绿
..... 堵燕钰,罗漪涟,吴冬梅,王博超,王洁琼(71)

热能工程

- 机械蒸汽再压缩(MVR)热泵技术的应用进展 杨德明,叶梦飞,谭建凯,王 颖,高晓新(76)
- 基于 ADINA 的多孔介质流固耦合分析 朱庆杰,任 瑞,贾海波,徐伟彬,张 涛(81)

计算机与信息工程

- 强光源影响下的单幅图像去雾 毕雪英,过 洁,潘金贵(86)

第 2 期

化学化工

- 通过 RAFT 聚合和点击反应合成苯乙烯和丙烯酸丁酯的多嵌段共聚物 孔立智,徐庆锬,蒋必彪(1)
- 三氯异氰尿酸促进硫代磷酸酯的高效简便合成 王 亮,陈 群,何明阳(6)
- 微溶剂法合成咪唑啉缓蚀剂及性能评价 林富荣,崔存凤(11)
- 邻、对氯苯腈合成新工艺 王海泼,马江权,殷云武,薛宝安,景小涛(16)
- 高分散 Pd/氧化石墨烯催化肉桂醛选择加氢 刘 平,武梦瑶,常婉亭,张卫红,李永昕(19)

材料科学与工程

- Zn-Fe-Zr 三元系富锌角的第一性原理计算及热力学评估 吴长军,彭浩平,苏旭平,涂 浩(25)
- T 型 ECAP 变形纯铝微观组织与力学性能研究 魏 伟,马志俊,魏坤霞,杜庆柏,胡 静(30)
- 热处理对微型磁致伸缩材料传感器磁性能的影响 胡佳佳,叶雪梅,胡 静(35)

纳米二氧化硅的制备及在生物医学领域的应用	姜兴茂,李亚情,张 涛(39)
环境科学与工程	
活性炭纤维负载 Ag_3PO_4 光催化剂的可见光催化性能	马建锋,黄代琴,邹 静,陈毅忠,李定龙(45)
横山桥镇农村供水管网水质模型构建及应用	赵玲萍,张凤娥,董良飞,涂保华,陈春芳(51)
A^2/O -MBR 工艺在市政工程中的应用研究	刘 博,杨 爱,周 勇,周味贤(55)
计算机与信息工程	
基于时间序列分析的 DNS 服务器的 DDoS 攻击检测	倪彤光,顾晓清,王洪元(59)
基于 FxLMS 算法和预测滤波器的数字耳机降噪研究	郇 战,戴永惠,王振海,陶亚辉(64)
一种门限可追踪的匿名签密方案	殷凤梅,濮光宁,侯整风(68)
油气与天然气工程	
海底管线天然气泄漏过程数值模拟	文 闯,延 斌,王宪全,张玉蛟,王树立,杨 燕(72)
输气管道储气调峰设计方法	江国业,李玉星(78)
其他	
细丝蛋白与其蛋白配体的相互作用	邱 琳,李静燕,王建浩,蒋鹏举(81)
电场对粉尘凝并效应的实验研究	马若白,王凯全(88)

第 3 期

新能源材料与技术

质子钛酸盐热解 TiO_2 纳米棒的光电性能研究	曲 婕,陈智慧,朱媛媛,张 帅,丁建宁,袁宁一(1)
柔性氢氧化镍/石墨烯膜的制备及超电容性能研究	许 娟,薛宇飞,王国鑫,魏曦晨,曹剑瑜,陈智栋(7)
交联剂含量对碱性阴离子交换膜性能的影响	林本才,冯天英,乔 刚,储富强,袁宁一,丁建宁(13)
负极材料 $\text{NiO}/\text{rGO}/\text{PPy}$ 的制备及储锂性能	任玉荣,王佳伟,丁建宁(18)
具有反蛋白石结构的准固态电解质制备及其光电性能研究	张 帅,董功雨,林本才,袁宁一,丁建宁(24)

机械制造及自动化

激光诱导 Fe 基 TiN 强化复合层形成温度场模拟	王 辉,陈晓龙,童 涵(29)
输电铁塔受腐蚀节点蚀余力学性能的有限元分析	黄士君(35)

石油与天然气工程

低渗透油藏储层特征及形成机理分析	李 雪(39)
含蜡原油降凝剂的研究进展及其应用	赵书华,刘飞飞,王树立,赵会军,李天洲(45)
基于 GIS 的 OWA 方法在锦 25 区块套管损坏评价中的应用	张 涛,朱庆杰,任 瑞,贾海波,王 帅(51)

化学化工

牺牲模板法制高比电容的氮修饰石墨烯及其电化学性能研究	曹剑瑜,陈利娟,赵卫芳,胡 玥,朱振涛,许 娟,陈智栋(56)
C/ TiO_2 光催化剂的合成及其活性评价	莫剑臣,董如林,张汉平,姜 苏,陈智栋,金长春(61)

信息科学与工程

基于自适应加权二部图的多特征目标匹配	杨 彪,邹 凌,李文杰,周天彤(66)
基于可编程器件的电能质量监测终端设计	孙广辉,朱正伟,郭 枫,张 丹(70)

数理科学

- 外部应力对 P(VDF-TrFE) 聚合物电热效应的影响 邱建华, 丁建宁, 袁宁一, 王秀琴(75)
- 由保守向混合耗散性转变的分段连续系统 巢小刚, 陆苏青(80)

其他

- 毛细管电泳在量子点生物分析中的应用 王建浩, 张晨澄, 李静燕, 杨 丽, 樊 杰, 邱 琳, 蒋鹏举(84)
- 社区 2 型糖尿病患者实施自我管理干预的效果评价 付敏丽, 蔡晓俐(89)

第 4 期**材料科学与工程**

- 石墨烯负载钴镍双金属氢氧化物纳米线的制备与性能研究 秦 勇, 赵璟悠, 晁 磊, 王 成, 储富强, 孔 泳, 陶永新(1)
- 水润滑对铝基材料摩擦学行为的影响研究 王 莹, 夏 丽, 丁建宁, 袁宁一(7)
- 聚乳酸/含镍层状双氢氧化物纳米复合材料的热性能研究 单雪影, 胡 源, 陈海群(13)
- 苯酚-亚联苯型环氧树脂的合成及其在环氧模塑料中的应用 宋 艳, 李锦春, 张 鑫(20)
- 粉煤灰对混凝土早期拉伸徐变等性能影响的试验研究 王新杰, 夏 群(26)

化学化工

- 贵金属催化剂在甲烷干重整中的研究 吴王平, 江 鹏, 苏少航, 华同曙(31)
- 颗粒活性炭吸附预处理硫辛酸厂水解废水研究 周永生, 陆惠刚, 张雪杰, 王车礼(38)
- 真空膜蒸馏处理气田甲醇废水实验研究 苏 昱, 赵会军, 张 璇, 刘 军, 彭浩平(43)

机械制造及自动化

- 激光淬火对 Cr12MoV 钢渗硼层摩擦与磨损性能的影响 王文昌, 谢春洋, 孔德军(47)
- 基于二端口网络模型的 PI-阻尼控制研究 潘礼正, 宋爱国, 段锁林, 徐宝国(53)

石油与天然气工程

- 套管中主管道的腐蚀与防护研究进展 刘 波, 杨 燕, 王树立, 代文杰, 冯旻玮, 王志锴(59)
- H₂S/CO₂ 共存环境下管道内腐蚀研究进展 程雅雯, 赵会军, 彭浩平, 张伟刚(63)
- 三次采油用聚丙烯酰胺类聚合物的研究进展 徐 燕(69)

环境科学与工程

- 江苏省 MODIS 气溶胶光学厚度和 PM_{2.5} 质量浓度关系研究 杨 春, 石小毛, 刘飞翔(74)
- 常州市城乡道路两侧住宅灰尘重金属的健康风险 潘新星, 高 琪, 杨 柳, 王明新(79)
- 叶面施磷对蓖麻生长、镉积累及亚细胞分布的影响 葛 跃, 孙向武, 陈亚慧, 赵兴青, 王明新(85)
- 城市污水处理系统中抗生素类污染物去除的优化试验研究 涂保华, 钱 伟, 陈兆林, 张 晟, 储 云, 董良飞(91)
- 淡水池塘水质环境评价系统设计 史 兵, 段锁林, 马正华, 徐守坤, 蒋建明(96)
- 水体中药物残留物的分布、检测和毒性评价 史政达(102)
- 保护层分析技术在液氯罐车现场使用风险控制中的应用 邢 锐, 贡锁平, 王云慧(107)

数理科学

- 混合正、负阶 KdV-mKdV 方程精确解 陈冬冬, 刘玉清(113)
- 关于一类三阶非线性微分方程全局稳定性的新结果 康慧燕(116)

Total Contents

No. 1

Mechanical Manufacture and Automation

- Research Progress on Bionic Robots and Research Issues of Bionic Mechanism
 SHEN Hui-ping, MA Xiao-meng, MENG Qing-mei, LI Yun-feng, MA Zheng-hua(1)
 Research and Application of Truss Manipulator for the Computer Back Cover Production Line
 TONG Zhen, DENG Jia-ming, JIANG Yong-jian, QIN Xian(11)
 Acoustic Emission Detection for Tube's Corrosion in Convection Chamber of Crude Tubular Furnace under
 Different Corrosion Status
 PEI Jun-feng, DAI Yun-cong, SUN Xu, HU Jian-qi, CHEN Yuan-li, LIU Ya-xin(16)
 Displacement Calculation of Involute Tooth Harmonic Gear Pump
 LI You-wu, ZOU Min, ZHU Hai-lin, SONG Pei-yi, LIU Zi-yao(21)

Material Science and Engineering

- Research on Microstructure and Antibacterial Property of TiO_2 - CeO_2 Plasma-Sprayed Composite Coatings
 ZHAO Xiao-bing, LIU Gao-peng(26)
 Effect of Plating Temperature on Immersion Tin Coating WANG Yu-rong, CAO Xiao-yun,
 CHEN Liang, HE Jia-wei, MITSUZAK Naotoshi, BAO Wei-liang, CHEN Zhi-dong(32)
 Investigation on the Preparation and Properties of Antimicrobial Poly(lactic acid)/Nanosilver-loaded Silica
 Nanocomposites FENG Jin-quan, ZHANG Du-yi, ZHAO Xin, WANG Biao-bing(37)
 Low Temperature Pack Boriding Enhanced by Alternating Current Field for Low and Medium Carbon
 Steels XIE Fei, ZHU Li-man, CHENG Jian, PAN Jian-wei(41)

Chemistry and Chemical Technology

- Simulation of the Separation for Isopropanol and Diisopropyl ether by Extractive Distillation and Heat Inte-
 gration Pressure Swing Distillation
 YE Qing, XIONG Xiao-juan, QIN Ji-wei, XU Hong, ZHANG Hao(46)
 Review on Synthesis of Molecular Sieves with Natural Minerals ... SHAO Hui, CHEN Jing-jing(50)
 Recent Progress in Application of Click Chemistry in the Synthesis of 1,2,3-Triazoles Derivatives ...
 LIANG Cui-rong, JIN Gui-hua, WU Sheng-nan, LU Chen, CHEN Xin(54)
 Catalytic Synthesis of Butyl Salicylate by Phosphotungstic Acid Supported on Resin D732
 JIANG Wei-hua, CUI Ai-jun, YANG Guang-hua, LUO Shi-ping(62)
 Application of Freeze-Drying Technology in Gemcitabine Hydrochloride Liposome for Injection
 WANG Yan, LI Wei, HAN Pin-xin, SHU Yi, LIU Xia(66)
 Determination of Malachite Green and Leucomalachite Green in Freshwater Fish by Online Purification and
 LC-MS-MS DU Yan-yu, LUO Yi-lian, WU Dong-mei, WANG Bo-chao, WANG Jie-qiong(71)

Heat Energy Engineering

- Application Progress for Mechanical Vapor Recompression Heat Pump Technology
 YANG De-ming, YE Meng-fei, TAN Jian-kai, WANG Ying, GAO Xiao-xin(76)

- Coupling Analysis of Fluid Structure Interaction in Porous Media Based on ADINA
 ZHU Qing-jie, REN Rui, JIA Hai-bo, XU Wei-bin, ZHANG Tao(81)

Computer and Information Engineering

- Single Image Dehazing with the Influence of Intense Light Source
 BI Xue-ying, GUO Jie, PAN Jin-gui(86)

No. 2

Chemistry and Chemical Technology

- Synthesis of Multiblock Copolymer of Styrene and Butyl Acrylate via RAFT Polymerization and Click Reaction KONG Li-zhi, XU Qing-kun, JIANG Bi-biao(1)
 Trichloroisocyanuric Acid-Promoting the Convenient and Efficient Synthesis of Thiophosphates
 WANG Liang, CHEN Qun, HE Ming-yang(6)
 Synthesis of Imidazoline Corrosion Inhibitor with Few Solvent and Its Performance Test
 LIN Fu-rong, CUI Cun-feng(11)
 A New Synthetic Process of 2-Chlorobenzonitrile and 4-Chlorobenzonitrile
 WANG Hai-po, MA Jiang-quan, YIN Yun-wu, XUE Bao-an, JING Xiao-tao(16)
 Selective Hydrogenation of Cinnamaldehyde over Highly-Dispersed Pd/Graphene Oxide
 LIU Ping, WU Meng-yao, CHANG Wan-ting, ZHANG Wei-hong, LI Yong-xin(19)

Material Science and Engineering

- The Zn-Rich Corner of the Zn-Fe-Zr System: First-Principle Calculation and Thermodynamic Assessment WU Chang-jun, PENG Hao-ping, SU Xu-ping, TU Hao(25)
 Microstructure and Mechanical Properties of Pure Aluminum Processed by T-Shaped Equal Channel Angular Pressing (T-ECAP) WEI Wei, MA Zhi-jun, WEI Kun-xia, DU Qing-bo, HU Jing(30)
 Effect of Annealing on the Performance of Microscale Magnetostrictive Sensors
 HU Jia-jia, YE Xue-mei, HU Jing(35)
 Preparation of Nano-Silica and Its Applications in Biomedicine
 JIANG Xing-mao, LI Ya-qing, ZHANG Tao(39)

Environmental Science and Engineering

- Visible-Light Photocatalytic Activity of Ag_3PO_4 Dispersed on Activated Carbon Fiber
 MA Jian-feng, HUANG Dai-qin, ZOU Jing, CHEN Yi-zhong, LI Ding-long(45)
 Establishment and Application of Water Quality Model in Villages Water Distribution System of Hengshanqiao Town
 ZHAO Ling-ping, ZHANG Feng-e, DONG Liang-fei, TU Bao-hua, CHEN Chun-fang(51)
 Research of A^2/O -MBR on the Municipal Engineering
 LIU Bo, YANG Ai, ZHOU Yong, ZHOU Wei-xian(55)

Computer and Information Engineering

- Detection of DDoS Attack Towards DNS Server Based on Time Series Analysis
 NI Tong-guang, GU Xiao-qing, WANG Hong-yuan(59)

Digital Headphone Noise Cancellation Research Based on FxLMS Algorithm and Prediction Filter	···
····· HUAN Zhan, DAI Yong-hui, WANG Zhen-hai, TAO Ya-hui	(64)
AThreshold Traceable Anonymous Signcryption Scheme	·····
····· YIN Feng-mei, PU Guang-ning, HOU Zheng-feng	(68)
Oil and Natural Gas Engineering	
Numerical Simulation of Natural Gas Leakage in Subsea Pipelines	·····
····· WEN Chuang, YAN Bin, WANG Xian-quan, ZHANG Yu-jiao, WANG Shu-li, YANG Yan	(72)
Peak-Shaving Design Method for a Gas Transmission Pipeline	····· JIANG Guo-ye, LI Yu-xing
	(78)
Others	
Filamins and Their Protein Ligands	····· QIU Lin, LI Jing-yan, WANG Jian-hao, JIANG Peng-ju
	(81)
Experimental Study on Effect of Electric Field on the Particle Coagulation	·····
····· MA Ruo-bai, WANG Kai-quan	(88)

No. 3

New Energy Materials and Technology

Photoelectrochemical Properties of TiO ₂ Nanorods Calcined from Titanate Nanorods	·····
····· QU Jie, CHEN Zhihui, ZHU Yuanyuan, ZHANG Shuai, DING Jianning, YUAN Ningyi	(1)
Preparation of Flexible Nickel Hydroxide-Graphene Film and Its Supercapacitor Performances	·····
····· XU Juan, XUE Yufei, WANG Guoxin, WEI Xichen, CAO Jianyu, CHEN Zhidong	(7)
Effect of the Content of Crosslinker on the Performance of Alkaline Anion Exchange Membrane	···
····· LIN Bencai, FENG Tianying, QIAO Gang, CHU Fuqiang, YUAN Ningyi, DING Jianning	(13)
The Synthesis and Lithium Storage Performance of NiO/rGO/PPy Anode Materials	·····
····· REN Yurong, WANG Jiawei, DING Jianning	(18)
Studies on Fabrication of Quasi-Solid-State Electrolytes with an Inverse Opal Structure and Their Photoelectric Properties	····· ZHANG Shuai, DONG Gongyu, LIN Bencai, YUAN Ningyi, DING Jianning
	(24)

Mechanical Manufacturing and Automation

Simulation of Laser-Induced Fe-Matrix TiN Reinforced Composite Layer Forming Temperature Field	·····
····· WANG Hui, CHEN Xiaolong, TONG Han	(29)
The Finite Element Analysis of Corrosion-Joint Mechanical Properties in Steel Transmission Towers	·····
····· HUANG Shijun	(35)

Oil and Natural Gas Engineering

Analysis on Reservoir Characteristics and Formation Mechanism of Low Permeability Reservoirs	·····
····· LI Xue	(39)
Research Progress and Application of Waxy Crude Oil Pour Point Depressant	·····
····· ZHAO Shuhua, LIU Feifei, WANG Shuli, ZHAO Huijun, LI Tianzhou	(45)
The Application of GIS-Based OWA Method in the Evaluation of Casing Damage of J25 Block	·····
····· ZHANG Tao, ZHU Qingjie, REN Rui, JIA Haibo, WANG Shuai	(51)

Chemistry and Chemical Technology

Preparation of Nitrogen-Modified Graphene of High Specific Capacitance by Sacrificial Template Method and Its Electrochemical Performances

..... CAO Jianyu, CHEN Lijuan, ZHAO Weifang, HU Yue, ZHU Zhentao, XU Juan, CHEN Zhidong(56)

Preparation and Activity Evaluation of C/TiO₂ Photocatalyst

..... MO Jianchen, DONG Rulin, ZHANG Hanping, JIANG Su, CHEN Zhidong, JIN Changchun(61)

Information Science and Engineering

Multi-Features Object Matching Based on Adaptive Weighted Bipartite Graph

..... YANG Biao, ZOU Ling, LI Wenjie, ZHOU Tiantong(66)

The Power Quality Monitoring Terminal Based on Programmable Device

..... SUN Guanghui, ZHU Zhengwei, GUO Feng, ZHANG Dan(70)

Mathematics and Physics

Influence of External Stress on the Electrocaloric Effect of P(VDF-TrFE) Copolymers

..... QIU Jianhua, DING Jianning, YUAN Ningyi, WANG Xiuqin(75)

A Circuit Model Transforming from Continuous Conservation to Piecewise-Continuous Semi-Dissipation ...

..... CHAO Xiaogang, LU Suqing(80)

Other Columns

The Application of Capillary Electrophoresis in Quantum Dots Bioanalysis

..... WANG Jianhao, ZHANG Chencheng, LI Jingyan, YANG Li, FAN Jie, QIU Lin, JIANG Pengju(84)

The Effect Evaluation of Self-Management Intervention by Type-2 Diabetes Patients in Community

..... FU Minli, CAI Xiaoli(89)

No. 4**Materials Science and Engineering**

Preparation and Performance of Cobalt-Nickel Double Hydroxide Nanowire-Decorated Graphene Composite

..... QIN Yong, ZHAO Jingyou, CHAO Lei, WANG Cheng, CHU Fuqiang, KONG Yong, TAO Yongxin(1)

Effect of Water Lubrication on the Tribological Behavior of Aluminum Based Materials

..... WANG Ying, XIA Li, DING Jianning, YUAN Ningyi(7)

Study on Thermal Property of Poly(lactic acid)/Nickel-Containing LDHs Nanocomposites

..... SHAN Xueying, HU Yuan, CHEN Haiqun(13)

Synthesis of Epoxy Resin with Biphenylene Structure and Its Application in Epoxy Molding Compound

..... SONG Yan, LI Jinchun, ZHANG Xin(20)

Experimental Study on the Influence of Fly Ash on the Early-Aged Tensile Creep and Other Properties of Concrete

..... WANG Xinjie, XIA Qun(26)

Chemistry and Chemical Technology

Review on Noble Metal Catalysts for Dry Reforming of Methane

..... WU Wangping, JIANG Peng, SU Shaohang, HUA Tongshu(31)

Study on Pretreatment of Hydrolyzed Wastewater from Lipoic Acid Plant Using Granular Activated Carbon Adsorption ZHOU Yongsheng, LU Huigang, ZHANG Xuejie, WANG Cheli(38)

Treatment of Wastewater Containing Methanol by Vacuum Membrane Distillation
..... SU Yu, ZHAO Huijun, ZHANG Xuan, LIU Jun, PENG Haoping(43)

Mechanical Manufacturing and Automation

Effects of Laser Quenching on Friction and Wear Properties of Boronized Layer on Cr12MoV Steel WANG Weichang, XIE Chunyang, KONG Dejun(47)

Research on the PI-Damping Control Based on the 2-Port Circuit Model
..... PAN Lizheng, SONG Aiguo, DUAN Suolin, XU Baoguo(53)

Oil and Natural Gas Engineering

Review on Corrosion and Protection of Pipeline in Casing
..... LIU Bo, YANG Yan, WANG Shuli, DAI Wenjie, FENG Minyi, WANG Zhikai(59)

Research Progress of the Pipeline under the Coexistence of H_2S/CO_2
..... CHENG Yawen, ZHAO Huijun, PENG Haoping, ZHANG Weigang(63)

Research Development of Polyacrylamides Polymer for Enhanced Oil Recovery XU Yan(69)

Environmental Science and Engineering

A Research on the Relationship Between Aerosol Optical Thickness and $PM_{2.5}$ Concentration over Jiangsu Province YANG Chun, SHI Xiaomao, LIU Feixiang(74)

Heavy Metal Pollution Risk of Household Dust on Both Sides of the Urban and Rural Road in Changzhou
..... PAN Xinxing, GAO Qi, YANG Liu, WANG Mingxin(79)

Effects of P Foliar Spraying on Plant Growth, Cd Accumulation and Subcellular Distribution in Ricinus Communis GE Yue, SUN Xiangwu, CHEN Yahui, ZHAO Xingqing, WANG Mingxin(85)

Experimental Study on the Optimization of Urban Sewage Treatment System to Remove Antibiotic Pollutants TU Baohua, QIAN Wei, CHEN Zhaolin, ZHANG Sheng, CHU Yun, DONG Liangfei(91)

Design for System of Water Quality Evaluation in Fresh Water Ponds
..... SHI Bing, DUAN Suolin, MA Zhenghua, XU Shoukun, JIANG Jianming(96)

Occurrence, Detection and Toxicity Assessment of Pharmaceutical Residues in Water and Wastewater
..... SHI Zhengda(102)

Application of LOPA to the Risk Controlling in the Field Use of Liquid Chlorine Tank Car
..... XING Rui, GONG Suoping, WANG Yunhui(107)

Mathematics and Physics

Exact Solutions to A Mixed Positive-Negative KdV-mKdV Equation
..... CHEN Dongdong, LIU Yuqing(113)

Some New Results on Global Stability of A Class of Third-Order Nonlinear Differential Equations
..... KANG Huiyan(116)