

目次

► 农业与机械工程

水稻整株秸秆还田机功耗影响试验

王金武, 张明秋, 葛宜元 497

基于人工鱼群算法的储粮害虫特征选择

张红涛, 毛罕平, 张晓东 502

应用电子舌技术识别水体的水华污染程度

黄星奕, 张春霞 506

栽有番茄的玻璃温室内气流场分布 CFD 数值模拟

程秀花, 毛罕平, 伍德林, 倪 军, 李本卿 510

► 车辆工程

汽车轴距差检测模型及检定策略

徐 观, 苏 建, 潘洪达, 李 洋, 田广东 515

电容型混合动力轿车冷起动试验测控系统开发

陈笃红, 周健豪, 朱 磊, 陈 诗 519

汽车外部流场和脉动压力模拟计算

刘红光, 张冬青, 陆森林, 陈士安 525

无级变速器金属带的滑移率评估方法

张 涌, 张为公, 吴海啸, 何 仁 530

► 材料科学与工程

热处理对 CLAM 钢 TIG 焊接接头显微组织影响

雷玉成, 邵奇栋, 朱 强, 尹 莎, 巨 新 535

镍基 F105Fe 粉末选区激光烧结试验

任乃飞, 张福周, 刘 苏 539

复合材料 PAA - PNIPA/APS - SBA - 15 的制备及其药物缓释性能

周志平, 孔祥涛, 盛维琛, 朱申敏 544

Cr18Ni3Mn11Cu3NbN 不锈钢组织和性能分析

李 丹, 程晓农, 姚春发, 李冬升, 戴起勋, 陈祖伟 549

► 能源与动力工程

中空纤维管随机分布下透析器的管外传质特性

刘 涛, 李昌烽, 邵 霞, 丁卫平, 何立群 553

异型 Ti 电极直接乙醇燃料电池的制备与性能

倪红军, 汪兴兴, 汤 东, 李 飞, Christensen P A 558

► 电气电子工程

基于二阶泰勒展开的扩展卡尔曼滤波测频算法

孟 真, 阎跃鹏, 于进勇 564

一种无线传感器网络中抵御拒绝睡眠攻击策略

陈 晨, 高新波, 裴庆祺, 吕 宁 570

► 计算机与通信工程

基于部分传输序列抽样的 PAPR 抑制技术

焦玉中, 倪学文, 王新安, 刘雪娇, 许 应 576

基于 Petri 网的制造系统质量管理流程建模

郑蓓蓉, 谢 楠, 薛 伟, 谢晓文 581

基于自配置的软件可信性增长方法

赵 倩, 王慧强, 冯光升, 刘 威, 赵 靖 586

► 化学工程

不同方法合成的 ZrMCM-41 介孔分子筛的物化性能

赵 谦, 谢 涛, 周旭平, 李艳慧, 姜廷顺 591

芹菜素分子印迹聚合物的分子识别性能及机理

贺敏强, 宋承成, 陈永强, 李春香, 程晓农 596

► 土木工程

预应力钢纤维混凝土梁斜截面抗裂试验与计算

金立兵, 陆春华, 王录民 601

钢筋混凝土管柱-钢桁架混合结构抗震性能

岳健广, 钱 江, 白国良, 李红星, 雷 拓 606

► 应用数学

旗传递 $5-(v, k, 2)$ 设计

刘伟俊, 谭琼华, 龚罗中 612

一类四阶时滞微分方程的渐进稳定性

姚洪兴, 王经天 616

CONTENTS

Experimental investigation on influencing factors of power consumption on rice straw return machine	Wang Jinwu, Zhang Mingqiu, Ge Yiyuan(497)
Feature selection of stored-grain insects based on artificial fish swarm algorithm	Zhang Hongtao, Mao Hanping, Zhang Xiaodong(502)
Discrimination on grades of algae bloom with electronic tongue	Huang Xingyi, Zhang Chunxia(506)
CFD simulations of airflow distributions inside glasshouse with tomato crops	Cheng Xiuhua, Mao Hanping, Wu Delin, Ni Jun, Li Benqing(510)
Detection model and calibration strategy for automobile wheelbase difference	Xu Guan, Su Jian, Pan Hongda, Li Yang, Tian Guangdong(515)
Test and measurement system using cold-start experiment for PHEV with ultra capacitor	Chen Duhong, Zhou Jianhao, Zhu Lei, Chen Shi(519)
Simulation on exterior flow field and pressure fluctuation for cars	Liu Hongguang, Zhang Dongqing, Lu Senlin, Chen Shian(525)
Evaluation of metal belt CVT's slip ratio	Zhang Yong, Zhang Weigong, Wu Haixiao, He Ren(530)
Effect of post weld heat treatment on microstructure and hardness on CLAM steel TIG weld	Lei Yucheng, Shao Qidong, Zhu Qiang, Yin Sha, Ju Xin(535)
Experimental study on selective laser sintering of Ni - based F105Fe powder	Ren Naifei, Zhang Fuzhou, Liu Su(539)
Preparation of mesoporous composite PAA - PNIPA/APS - SBA - 15 and its application in drug delivery	Zhou Zhiping, Kong Xiangtao, Sheng Weichen, Zhu Shenmin(544)
Microstructure and mechanical property of austenitic steel Cr18Ni3Mn11Cu3NbN	Li Dan, Cheng Xiaonong, Yao Chunfa, Li Dongsheng, Dai Qixun, Chen Zuwei(549)
Characteristics of shell-side mass transfer with hollow fibers random distribution in dialyzer	Liu Tao, Li Changfeng, Shao Xia, Ding Weiping, He Liquan(553)
Preparation and cell performance of special-shaped Ti electrode for direct ethanol fuel cell	Ni Hongjun, Wang Xingxing, Tang Dong, Li Fei, Christensen P A(558)
Extended Kalman filter for frequency measurement based on two-order Taylor expansion	Meng Zhen, Yan Yuepeng, Yu Jinyong(564)
A tactics to alleviate influence of denial-of-sleep attack in WSN	Chen Chen, Gao Xinbo, Pei Qingqi, Lü Ning(570)
A low-complexity PAPR reduction technique based on sampling partial transmit sequences	Jiao Yuzhong, Ni Xuewen, Wang Xin'an, Liu Xuejiao, Xu Ying(576)
Quality management process modeling of manufacturing system based on Petri nets	Zheng Beirong, Xie Nan, Xue Wei, Xie Xiaowen(581)
Dependability growing method of software based on self-configuration	Zhao Qian, Wang Huiqiang, Feng Guangsheng, Liu Wei, Zhao Jing(586)
Physicochemical properties of ZrMCM - 41 mesoporous molecular sieves synthesized by different methods	Zhao Qian, Xie Tao, Zhou Xuping, Li Yanhui, Jiang Tingshun(591)
Recognition property and mechanism of molecularly imprinted polymers of Apigenin	He Minqiang, Song Chengcheng, Chen Yongqiang, Li Chunxiang, Cheng Xiaonong(596)
Experimental study on shear-cracking capacity of prestressed steel fiber reinforced concrete beams	Jin Libing, Lu Chunhua, Wang Lumin(601)
Seismic performance of vertical hybrid structure consisting of reinforced concrete pipe column and steel truss	Yue Jianguang, Qian Jiang, Bai Guoliang, Li Hongxing, Lei Tuo(606)
Flag-transitive 5 - (v, k, 2) designs	Liu Weijun, Tan Qionghua, Gong Luozhong(612)
Asymptotic stability of a certain fourth-order delay differential equation	Yao Hongxing, Wang Jingtian(616)