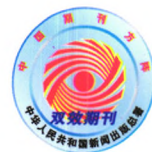


中国科学院
中国科学院过程工程研究所
《计算机与应用化学》编辑部

主管
主办
出版



中文核心期刊
论文统计源期刊
中国期刊方阵期刊



ISSN 1001-4160
CN 11-3763/TP
CODEN JYYHE6

计算机与应用化学

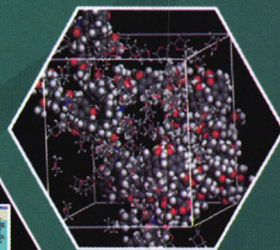
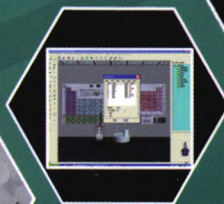
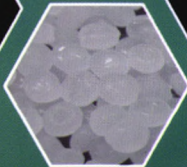
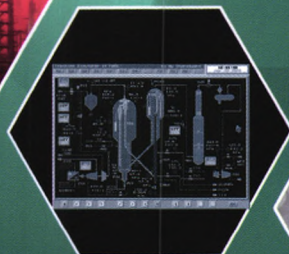
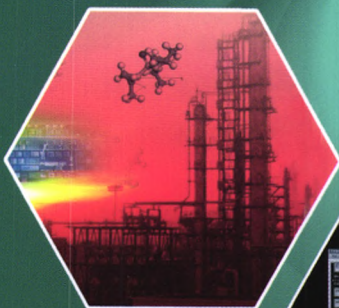
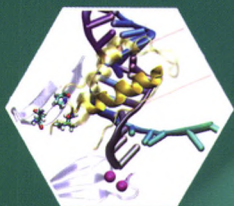
Jisuanji Yu Yingyonghuaaxue

COMPUTERS AND APPLIED CHEMISTRY

- **PS_E** Chinese Process Systems Engineering Society
- Computer Chemistry Committee,
Chinese Chemical Society
- Committee for Information Technology Applications,
Chemical Industry and Engineering Society of China

10 2012

Vol.29 No.10
第29卷 第10期



ISSN 1001-4160



9 771001 416114

中国系统工程学会过程系统工程专业委员会
中国化学会计算机化学专业委员会
中国化工学会信息技术应用专业委员会

会刊

CONTENTS

Piecewise PCA based monitoring method for processes under varying load conditionGuo Feihong and Huang Dexian	(1162)
Modeling research of parameters about circulating fluidized bed boiler efficiency Wu Jiabiao, Liu Xinggao and Yan Zhengbing	(1166)
The rounding problems in rotary steerable drilling system downward signal solving Tang Nan, Huo Aiqing, Wang Yaolong and Cheng Weibin	(1170)
A method of parameters tuning of $PI^{\lambda}D^{\mu}$ controller based on stability region Mu Jinshan, Wang Xin and Wang Zhenlei	(1175)
Algorithm based on norm distance distance similarity measurement for longitudinal data Li Huimin, Fang Liying, Yan Jianzhuo, Wang Pu and Zhao Hui	(1180)
Internal thermally coupled distillation column based on RBF neural network of internal model control by hybrid optimization algorithm Cai Kun and Liu Xinggao	(1184)
Application reaserch of association-rule and MES in the temperature control of continuous-casting Cao Chunping, He Jia, Wang Yagang and Shao Huihe	(1188)
The method of mid-term and short-term prediction for water bloom based on LSSVM and RBFNNLiu Zaiwen, Li Mengxu, Wang Xiaoyi and Li Lin	(1194)
The design and implementation of the data processing system for liquid-liquid equilibrium experiments of ATPS based on VB and MATLAB..... Lu Yang, Tan Zhenjiang and Yan Yongsheng	(1198)
An adaptive optimal clustering number of FKCM base on Gaussian kernel validity index Tang Ku, Wang Xin, Wang Zhenlei and Qian Feng	(1203)
Based on PLC temperature control system design and implementation Li Juye and Ji Liuli	(1206)
Tubular heat exchanger based on characteristic-model control Li Xuanling and Yang Huizhong	(1210)
A global optimizing method in green wave control of urban arterial trafficHu Ting, Wang Jingcheng, Zhao Guanglei, Miao Haoxuan, Dong Zhenjiang, Zhang Zhenwei, He Jun and Fu Qiang	(1215)
Advanced process control simulation platform for combustion system of boiler in power plant Li Peng, Sun He, Zhang Jian, Zhang Xiyang and Cao Min	(1220)
Molecular modelling of direct radical hydrogenation on different PAHs molecules Wang Chunlu, Zhou Han, Wang Zijun, Dai Zhenyu and Zhao Yi	(1224)
Study on the acidic site of Cu based catalyst Li Ruzhen and Zhang Minhua	(1227)
Clustering of edge similarity and its application to functional module analysis of biological networks Ding Dewu	(1230)
<i>In silico</i> toxicity prediction of skin-whitening tyrosinase and adenylyl cyclase inhibitors Fong Pedro, Tong Hoyee and Chao Chiman	(1236)
Direct simulation Monte Carlo (DSMC) and validation for aerosol undergoing simultaneous coagulation and settlingLiu Longbo and Zhang Lixing	(1240)
Research on the dynamic traffic zoning based on the key junctions Zhao Wentao, Qian Xiaojie, Zhu Yun, Song Chi and Shen Guojiang	(1244)
The development research of simulation system of heat exchanger network Gao Kai, Sun Xiaoyan, Xia Li and Xiang Shuguang	(1248)
Study on the control system of the hoop standard granulator based on the expert system Zhang Kun, Wu Jianguo, Zhang Peijian and Hu Zhijiang	(1252)
Economic performance assessment of model predictive control (MPC) based on LQG benchmarking Zhao Chao, Zhang Dengfeng, Xu Qiaoling and Li Xuelai	(1258)
Simulation research of storage handling based on petri net and flexsimLi Xiang	(1262)
Study of online concentration retrieval method for ammonia based on difference optical absorption spectrometryZhu Jin, Sun Dongmei and Chen Ling	(1266)
Calculation in the relevance of potential parameters of organic gas molecules Xu Yu, Shi Yubing, Jiang Denggao and Wang Xunqiu	(1273)
Study on the scheduling of hydrogen system based on petri nets in refinery Li Huan, Xiao Wu, Zhu Yinfei and He Gaohong	(1280)

计算机与应用化学

JISUANJI YU YINGYONG HUAXUE

第 29 卷 第 10 期

2012 年 10 月

目 次

基于分段主元分析的变负荷过程监控方法.....	郭飞鸿, 黄德先	(1159)
循环流化床锅炉效率相关参数的建模研究.....	吴家标, 刘兴高, 闫正兵	(1163)
导向钻井下传信号解算中的取整问题.....	汤楠, 霍爱清, 汪跃龙, 程为彬	(1167)
一种基于参数稳定域的 $PI^{\lambda}D^{\mu}$ 控制器整定方法.....	牟金善, 王昕, 王振雷	(1171)
基于扩展范式距离的纵向数据相似性度量.....	李会民, 方丽英, 闫健卓, 王普, 赵辉	(1176)
内部热耦合精馏塔基于混合优化算法的 RBF 神经网络内模控制策略.....	蔡坤, 刘兴高	(1181)
关联规则和 MES 在连铸温度控制中的应用研究.....	曹春萍, 何佳, 王亚刚, 邵惠鹤	(1185)
基于 LSSVM 和 RBFNN 的水华中短期预测方法.....	刘载文, 李梦寻, 王小艺, 李林	(1189)
基于 VB 和 MATLAB 的双水相体系液-液相平衡数据处理系统的设计与实现.....	逯洋, 谭振江, 闫永胜	(1195)
一种基于高斯核化有效性指标的自适应优选聚类数的 FKCM.....	唐苦, 王昕, 王振雷, 钱锋	(1199)
基于 PLC 的水温控制系统的设计与实现.....	李菊叶, 纪留利	(1204)
列管式热交换器的特征模型控制.....	李选令, 杨慧中	(1207)
城市交通干线绿波带全局优化方法.....	胡震, 王景成, 赵广磊, 苗浩轩, 董振江, 张震玮, 何军, 付强	(1211)
电厂锅炉燃烧系统先进过程控制实验仿真平台.....	李鹏, 孙鹤, 张健, 洪建武, 曹敏	(1216)
稠环芳烃直接加氢的分子模拟研究.....	王春璐, 周涵, 王子军, 代振宇, 赵毅	(1221)
Cu 基催化剂上的酸中心研究.....	李如珍, 张敏华	(1225)
边相似性聚类分析及其在生物网络功能模块识别中的应用.....	丁德武	(1228)
美白酪氨酸酶和腺苷酸环化酶抑制剂的计算机毒性研究.....	冯荣楷, 唐海谊, 周志敏	(1231)
凝并与沉降共存的直接蒙特卡罗模拟及其验证.....	刘龙波, 张利兴	(1237)
基于关键路口的动态交通子区划分.....	赵文涛, 钱晓杰, 朱芸, 宋驰, 沈国江	(1241)
换热网络模拟系统的开发研究.....	高凯, 孙晓岩, 夏力, 项曙光	(1245)
基于专家系统的环模制粒机控制系统研究.....	张堃, 吴建国, 张培建, 胡志江	(1249)
基于 LQG 性能基准的预测控制经济性能评估算法.....	赵超, 张登峰, 许巧玲, 李学来	(1253)
基于 Petri 网与 Flexsim 的仓储装卸仿真研究.....	李翔	(1259)
基于差分吸收光谱技术 NH_3 浓度在线反演方法研究.....	朱新, 孙冬梅, 陈玲	(1263)
有机气体分子结构与势能参数的关联和测算.....	徐燧, 石玉冰, 蒋登高, 王训道	(1267)
基于 Petri 网炼油厂氢气系统计划优化的研究.....	李焕, 肖武, 朱寅菲, 贺高红	(1274)
《计算机与应用化学》征稿简则.....		(1194)