

中国科学技术协会 主管
中国化学会 主办
北京师范大学 主办
全国中文核心期刊

ISSN 1003-3807
CN 11-1923/O6
美国化学文摘 (CA) 收录源期刊

化学教育

CHINESE JOURNAL OF CHEMICAL EDUCATION

★《中文核心期刊要目总览》收录期刊
★中国核心期刊(遴选)数据库收录期刊
★中国期刊全文数据库收录期刊

★中国学术期刊综合评价数据库统计源期刊
★维普网收录源期刊
★万方数据库收录期刊



邮发代号: 2-106

ISSN 1003-3807



9 771003 380161

24



24 卷终

第37卷
2016

HUAXUE JIAOYU

化学前沿

复合相变储能材料的制备及应用研究进展 黄平 丁益民 胡婷 戎天任 (1)

知识介绍

柿叶中化学成分及其药理作用研究 卢鑫 李晓乐 (5)

专论

TCP人才培养模式下的多元化学生评价体系研究——以工业分析与检验专业为例 郭丰艳 (10)

理论课教学

基于创新能力培养的物理化学教学模式探索与实践 杨凤霞 安彩霞 王爱荣 (16)

硼化学教学中融合性应用PBL与LBL模式的教学实践探索 张文广 饶小宝 彭思艳 (21)

和谐效率理念融入大学化学理论教学的探索 李志美 姜雯雯 (26)

实验课教学

设计性实验教学模式的新探索——以阿司匹林制备为例 段新红 (29)

单分子膜法测阿伏伽德罗常数实验中扩散剂的新探索 王高原 韩庆奎 (33)

基于BODIPY衍生物的氟离子荧光比例探针的研究 杨念念 汪林林 邱月峰 曹俭 (36)

一种快速转移挥发性和腐蚀性液体试剂的实验装置 郭元平 段文革 冯峰 蔡圆圆 (40)

光度法测定微量铁实验中还原剂的优化选择 向晓明 李花 张小林 (42)

非化学专业化学教育

高校非化学专业“无机及分析化学”教学中的问题及对策

..... 热娜古丽·阿不都热合曼 热萨莱提·伊敏 尹学博 木合塔尔·吐尔洪 (45)

军校大学化学创新实验课: VCI技术在装备储存中的应用 王晓梅 万红敬 黄红军 李志广 胡建伟 (50)

农林本科院校仪器分析教学改革与探索 王修中 吕海涛 (53)

信息技术与化学

精细化工数字化课程教学资源建设 焦雪峰 (57)

调研报告

理科职前教师科学模型理解的调查研究 韦斯林 张恒露 王巧丽 章鹏飞 (60)

问题讨论与思考

硝基苯还原反应的机理探讨 崔文辉 (66)

表面活性剂克拉夫特点测定方法的探讨 秦勇 汪媛 林富荣 彭勇刚 黎娟 马江权 (74)

化学史与化学史教育

电子的发现与化学键电子理论的发展 袁振东 司雅红 (77)

2017年《化学教育》订阅办法 (9)

本期责任编辑 杨金瑞

CHINESE JOURNAL OF CHEMICAL EDUCATION

2016 Vol. 37 No. 24

Sponsored by Chinese Chemical Society and Beijing Normal University

Frontier in Chemistry

Review on Preparation and Application of Composite Phase Change Energy Storage Material HUANG Ping DING Yi-Min HU Ting RONG Tian-Ren(1)

Survey of Chemistry

Chemical Components in Persimmon Leaves and Its Pharmacological Effects LU Xin LI Xiao-Le(5)

Special Topics

Multi-Assessment System of TCP Talent Cultivation Mode: Industrial Analysis and Test Specialty as Example GUO Feng-Yan(10)

Theory Teaching

Exploration and Practice of Physical Chemistry Teaching Mode for Training Innovative Abilities YANG Feng-Xia AN Cai-Xia WANG Ai-Rong(16)

Teaching Practice on Combing PBL and LBL for Boron Chemistry ZHANG Wen-Guang RAO Xiao-Bao PENG Si-Yan(21)

Integrating Concept of Efficiency and Harmony into University Chemistry Teaching ... LI Zhi-Mei JIANG Wen-Wen(26)

Experiment Teaching

Exploration on Teaching Mode of Design Experiment with Example of Aspirin Preparation DUAN Xin-Hong(29)

Avogadro Constant Measurement by Single Molecule Membrane with Cyclohexane as Diffusion Agent WANG Gao-Yuan HAN Qing-Kui(33)

Research of Fluorescence Ratio Probe of Fluorinion Based on BODIPY Derivative YANG Nian-Nian WANG Lin-Lin QIU Yue-Feng CAO Jian(36)

Experimental Device for Rapidly Transferring Volatile and Corrosive Liquid Reagent GUO Yuan-Ping DUAN Wen-Ge FENG Feng CAI Yuan-Yuan(40)

Optimization of Reducing Agent in Spectrophotometric Determination of Trace Iron XIANG Xiao-Ming LI Hua ZHANG Xiao-Lin(42)

Chemical Education for Non-Chemistry Majors

Problems and Solutions of Inorganic and Analytical Chemistry Teaching for Non-Chemistry Major Students ABDURAHMAN Renagul EMIN Resalat YIN Xue-Bo TURHUN Muhetar(45)

Innovative Experiment of College Chemistry in Military Academy: Application of VIC in Equipment Storage WANG Xiao-Mei WAN Hong-Jing HUANG Hong-Jun LI Zhi-Guang HU Jian-Wei(50)

Reform and Exploration of Instrumental Analysis Teaching in Agricultural and Forestry Universities WANG Xiu-Zhong LV Hai-Tao(53)

Information Technology and Chemistry

Construction of Digital Teaching Resource for Fine Chemicals Course JIAO Xue-Feng(57)

Investigation Report

Investigation on Pre-Service Science Teachers' Understanding on Scientific Model WEI Si-Lin ZHANG Heng-Lu WANG Qiao-Li ZHANG Peng-Fei(60)

Discussion and Thinking of Questions

Discussion on Mechanisms of Reduction Reactions of Nitrobenzene CUI Wen-Hui(66)

Discussion on Measurement of Krafft Point of Surfactants QIN Yong WANG Yuan LIN Fu-Rong PENG Yong-Gang LI Shan MA Jiang-Quan(74)

History of Chemistry and Chemical History Education

Discovery of Electron and Development of Electron Theory of Chemical Bond YUAN Zhen-Dong SI Ya-Hong(77)

化 学 教 育

(半月刊·1980年创刊)

2016年 第37卷 第24期(卷终) 12月18日出版

主管单位 中国科学技术协会
主办单位 中国化学会 北京师范大学
编辑出版 《化学教育》编辑部
编辑部地址 北京师范大学化学楼 217 室
邮政编码 100875
电话(传真) 010-58807875
咨询信箱 hxjy-jce@263.net
投稿网址 http://www.hxjy.org

顾问 刘知新
主编 刘正平
副主编 李艳梅 孙世刚 王磊 王祖浩
杨振忠 郑长龙 朱玉军(专职)
刊名题字 戴安邦
印刷装订 河北天普润印刷厂
总发行处 中国邮政集团公司北京市报刊发行局
订 阅 全国各地邮局

刊号 ISSN 1003 - 3807
CN 11 - 1923/O6

国内邮发代号 2-106

国外发行代号 M3070

定价 12.00 元

CHINESE JOURNAL OF CHEMICAL EDUCATION

2016 Vol. 37 No. 24

Sponsored by Chinese Chemical Society and Beijing Normal University

Frontier in Chemistry

Review on Preparation and Application of Composite Phase Change Energy Storage Material HUANG Ping DING Yi-Min HU Ting RONG Tian-Ren(1)

Survey of Chemistry

Chemical Components in Persimmon Leaves and Its Pharmacological Effects LU Xin LI Xiao-Le(5)

Special Topics

Multi-Assessment System of TCP Talent Cultivation Mode: Industrial Analysis and Test Specialty as Example GUO Feng-Yan(10)

Theory Teaching

Exploration and Practice of Physical Chemistry Teaching Mode for Training Innovative Abilities YANG Feng-Xia AN Cai-Xia WANG Ai-Rong(16)

Teaching Practice on Combing PBL and LBL for Boron Chemistry ZHANG Wen-Guang RAO Xiao-Bao PENG Si-Yan(21)

Integrating Concept of Efficiency and Harmony into University Chemistry Teaching ... LI Zhi-Mei JIANG Wen-Wen(26)

Experiment Teaching

Exploration on Teaching Mode of Design Experiment with Example of Aspirin Preparation DUAN Xin-Hong(29)

Avogadro Constant Measurement by Single Molecule Membrane with Cyclohexane as Diffusion Agent WANG Gao-Yuan HAN Qing-Kui(33)

Research of Fluorescence Ratio Probe of Fluorinion Based on BODIPY Derivative YANG Nian-Nian WANG Lin-Lin QIU Yue-Feng CAO Jian(36)

Experimental Device for Rapidly Transferring Volatile and Corrosive Liquid Reagent GUO Yuan-Ping DUAN Wen-Ge FENG Feng CAI Yuan-Yuan(40)

Optimization of Reducing Agent in Spectrophotometric Determination of Trace Iron XIANG Xiao-Ming LI Hua ZHANG Xiao-Lin(42)

Chemical Education for Non-Chemistry Majors

Problems and Solutions of Inorganic and Analytical Chemistry Teaching for Non-Chemistry Major Students ABDURAHMAN Renagul EMIN Resalat YIN Xue-Bo TURHUN Muhetar(45)

Innovative Experiment of College Chemistry in Military Academy: Application of VIC in Equipment Storage WANG Xiao-Mei WAN Hong-Jing HUANG Hong-Jun LI Zhi-Guang HU Jian-Wei(50)

Reform and Exploration of Instrumental Analysis Teaching in Agricultural and Forestry Universities WANG Xiu-Zhong LV Hai-Tao(53)

Information Technology and Chemistry

Construction of Digital Teaching Resource for Fine Chemicals Course JIAO Xue-Feng(57)

Investigation Report

Investigation on Pre-Service Science Teachers' Understanding on Scientific Model WEI Si-Lin ZHANG Heng-Lu WANG Qiao-Li ZHANG Peng-Fei(60)

Discussion and Thinking of Questions

Discussion on Mechanisms of Reduction Reactions of Nitrobenzene CUI Wen-Hui(66)

Discussion on Measurement of Krafft Point of Surfactants QIN Yong WANG Yuan LIN Fu-Rong PENG Yong-Gang LI Shan MA Jiang-Quan(74)

History of Chemistry and Chemical History Education

Discovery of Electron and Development of Electron Theory of Chemical Bond YUAN Zhen-Dong SI Ya-Hong(77)

化 学 教 育

(半月刊·1980年创刊)

2016年 第37卷 第24期(卷终) 12月18日出版

主管单位 中国科学技术协会
主办单位 中国化学会 北京师范大学
编辑出版 《化学教育》编辑部
编辑部地址 北京师范大学化学楼217室
邮政编码 100875
电话(传真) 010-58807875
咨询信箱 hxjy-jce@263.net
投稿网址 http://www.hxjy.org

顾问 刘知新
主编 刘正平
副主编 李艳梅 孙世刚 王磊 王祖浩
杨振忠 郑长龙 朱玉军(专职)
刊名题字 戴安邦
印刷装订 河北天普润印刷厂
总发行处 中国邮政集团公司北京市报刊发行局
订 阅 全国各地邮局

刊号 ISSN 1003-3807
CN 11-1923/O6

国内邮发代号 2-106

国外发行代号 M3070

定价 12.00元