

目次

今日化学

聚丙烯腈分离膜表面的酶固定化研究进展 吴青芸 万灵书 徐志康 (1)

教学研究与改革

高校实践类课程改革的理论基础及实践研究之一——基本取向与突破口

..... 黄都 卢昕 蒋毅民 等 (8)

海峡两岸微型化学实验之发展 周宁怀 (13)

利用本科生科研训练平台培养高素质人才 朱亚先 夏海平 袁友珠 等 (17)

综合性大学基础化学实验(一)教学改革 林金华 (20)

培养高师学生的化学学习能力 苗深花 韩庆奎 张雨强 (24)

物理化学课堂教学中多向交流的教学模式探索 庞秀江 陈利 孟阿兰 (28)

以案例教学教给学生分析化学家的思维方式 李娜 刘锋 李克安 (31)

波谱分析课程教学的实践与思考 曹书霞 廖新成 (36)

精细化工教学改革的探索与实践 杨继生 (39)

化工热力学习题改革初探 吕玲红 冯新 刘畅 等 (42)

论四大滴定理论内容整合与教材改革 岳宣峰 张延妮 漆红兰 等 (47)

计算机与化学

POLYMATH 软件在化工课程中的应用

..... 李学慧 吴正舜 伍强贤 等 (50)

化学实验

沉淀聚合合成聚丙烯酸及其多角度分子表征——推荐一个高分子化学综合实验

..... 杨琥 谌东中 (55)

一种简易植物提取装置的应用 王涛 陈慧宗 彭以元 等 (60)

师生笔谈

平衡态近似及其与稳定态近似的关系 刘国杰 黑恩成 (62)

关于稀溶液依数性讲解中的几个问题讨论 高胜利 陈三平 谢钢 等 (66)

谈元素电子构型的速写 王纪学 张智敏 (70)

自学之友

道尔顿体和柏托雷体——晶体结构视角的理解 荆西平 (73)

三分子化学反应——一个未被证实的假设 罗渝然 俞书勤 张祖德 等 (81)

基于 p 值流程图计算水溶液酸碱度的方法 熊言林 余婵娟 马善恒 (85)

动态与信息

《分析实验室》技术期刊征订启事(35) 欢迎订阅 2011 年《大学化学》(80)

CONTENTS

Chemistry Today	
Enzyme Immobilization on Polyacrylonitrile-based Membranes	<i>Wu Qingyun, Wan Lingshu, Xu Zhikang</i> (1)
Study and Reform of Chemical Education	
A Study of the Theory and Practice for the Reform of Practical Courses (I)——The Main Goal and Breakthrough	<i>Huang Du, Lu Xin, Jiang Yimin, et al</i> (8)
A Review on Development of Microscale Laboratory in Both Sides of the Strait	<i>Zhou Ninghui</i> (13)
Cultivating Innovative Ability through Scientific Research Training	<i>Zhu Yaxian, Xia Haiping, Yuan Youzhu, et al</i> (17)
Reform on Basic Experimental Chemistry (I)	<i>Lin Jinhua</i> (20)
On Fostering Students' Ability of Learning Chemistry in a Normal University	<i>Miao Shenhua, Han Qingkui, Zhang Yuqiang</i> (24)
How to Maintain Multi-lateral Communications in Teaching Physical Chemistry	<i>Pang Xiujiang, Chen Li, Meng Alan</i> (28)
Teaching Students to Think as Analytical Chemists through Case Study	<i>Li Na, Liu Feng, Li Kean</i> (31)
On the Teaching of Spectroscopic Analysis	<i>Cao Shuxia, Liao Xincheng</i> (36)
Exploration and Practice on Teaching Fine Chemicals	<i>Yang Jisheng</i> (39)
Innovation of Exercises for Chemical Engineering Thermodynamics	<i>Li Linghong, Feng Xin, Liu Chang, et al</i> (42)
On Integration of the Titration Theories and Reform of the Textbook	<i>Yue Xuanfeng, Zhang Yanni, Qi Honglan, et al</i> (47)
Computer and Chemistry	
The Application of Polymath Software in Solving Problems of Chemical Engineering Courses	<i>Li Xuehui, Wu Zhengshun, Wu Qiangxian, et al</i> (50)
Chemistry Laboratory	
Synthesis of Poly(acrylic acid) by Precipitation Polymerization and Its Extensive Molecular Characterization	<i>Yang Hu, Chen Dongzhong</i> (55)
Application of a Facile Plant Distillation Apparatus in Organic Chemistry Experiments	<i>Wang Tao, Chen Huizong, Peng Yiyuan, et al</i> (60)
Between Teacher and Student	
Equilibrium Approximation and Its Relation with Steady-State Approximation	<i>Liu Guojie, Hei Encheng</i> (62)
Discussion on Colligative Properties of Dilute Solutions	<i>Gao Shengli, Chen Sanping, Xie Gang, et al</i> (66)
On Sketch of the Electronic Configuration of Elements	<i>Wang Jixue, Zhang Zhimin</i> (70)
Self Studies	
Daltonide and Berthollide——Viewed from the Point of Crystallography	<i>Jing Xiping</i> (73)
The Termolecular Reactions——An Unidentified Assumption	<i>Luo Yuran, Yu Shuqin, Zhang Zude, et al</i> (81)
A Method of Calculating Solution pH Based on the p-Values Flowchart	<i>Xiong Yanlin, Yu Chanjuan, Ma Shanheng</i> (85)