

ISSN 1000-8438  
CN 11-1815/O6

# 大學化學

UNIVERSITY CHEMISTRY

第32卷 第6期 Vol.32 No.6

2017

大學化學

UNIVERSITY CHEMISTRY

第三十二卷

第六期

Vol.32 No.6

二〇一七

中華人民共和國教育部主管  
北京大學、中國化學會主辦  
北京大學化學與分子工程學院大學化學編輯部出版

万方数据

## CONTENTS

**Chemistry Today**

Transition-Metal-Catalyzed Cleavage of Amide C—N Bonds ..... CHEN Tian-Yang, ZHANG Wen-Xiong (1)

**Study and Reform of Chemical Education**The Application of Flipped Classroom Mode in the Experimental Teaching of Photometric Determination of Iron  
..... WANG Hai-Xia, WANG Wan-Qin, PU Min, LEI Ming, WANG Xiang-Dong (13)

Practice on the Teaching of Freshmen Seminar for Applied Chemistry Major ..... TAO Hu (18)

Cultivation of Students' Self-Learning Abilities during the Curriculum Teaching of Inorganic Chemistry Experiment  
..... WANG Zheng, LIAN Pei-Hong, LI Lin, LUO Fu-Rong, LIU Hong-Ying, ZHOU Li-Qun (23)Cultivation of Students' Self-Learning Ability Using Case-Teaching in General Chemistry  
..... WU Yi-Ping, YANG Ben-Hong (27)

Suggestions on Teaching Structural Chemistry for Young Teachers ..... WANG Wei-Tao (31)

Exploration and Practice of "One and Four" Application-Oriented Talents Training Mode in Local Universities: In the Case  
of Chemistry Major of Shaoguan University  
..... GUO Hui-Shi, QIU Xiu-Zhen, REN Jian-Min, JIAO Lin-Juan, XU Xian-Yan (35)Application and Evaluation of Customized Cases for Introductory Lecture of Medical Chemistry to Joint Classes with  
Different Majors ..... HE Jian, YANG Xiao-Chao (41)**Survey of Chemistry**A Look Back on the Formation and Development of Periodic Table of Chemical Elements  
..... YANG Qi, CHEN San-Ping, DI You-Ying, ZHOU Chun-Sheng, GAO Sheng-Li (46)**Chemistry Laboratory**Strengthening the Training and Management of Teaching Assistants, and Improving the Teaching Quality of Chemical  
Laboratory ..... HUANG Wei, ZHENG Yuan, LIU Guang-Ming, ZHU Ping-Ping (68)

Preparation of Natural Dye-Sensitized Solar Cells: A College Comprehensive Chemical Experiment ..... LAN Zhang (75)

Synthesis of 4'-[5-(4-Carboxylphenylfuran)-2-yl]-2,2':6',2''-Terpyridine: A Proposed Organic Chemistry Experiment  
..... FU Wei-Wei, YI Qing, JIN Xia, KUANG Xiang, TANG Zi-Qing (82)**Between Teacher and Student**Discussion on the Introduction of Theoretical Principles and Experimental Details of Mineralogy in the Fundamental  
Inorganic Chemistry Education ..... WANG A. Zhipeng (86)

The Teaching Practice in Medical Organic Chemistry ..... LIU Yun (93)

## 目 次

### 今日化学

过渡金属催化的酰胺C-N键活化 ..... 陈天阳 张文雄 (1)

### 教学研究与改革

翻转课堂模式在光度法测铁实验教学中的应用 ..... 王海霞 王婉秦 蒲敏 雷鸣 王向东 (13)

应用化学专业新生研讨课教学实践 ..... 陶虎 (18)

在基础无机化学实验教学中培养学生自主学习能力 ..... 王峥 连培红 李琳 罗复蓉 刘红英 周立群 (23)

普通化学案例教学与学生自主学习能力的培养 ..... 吴义平 杨本宏 (27)

青年教师如何做好结构化学教学 ..... 王伟涛 (31)

“一托四化”应用技术型本科人才培养模式的探索与实践——以韶关学院化学专业为例

..... 郭会时 丘秀珍 任健敏 焦琳娟 徐先燕 (35)

合班教学模式下定制化案例在医学化学绪论课中的应用及效果评价 ..... 贺建 杨小超 (41)

### 知识介绍

再论化学元素周期表的形成和发展 ..... 杨奇 陈三平 邱友莹 周春生 高胜利 (46)

### 化学实验

加强助教培训和管理工作的提高化学实验教学质量 ..... 黄微 郑媛 刘光明 朱平平 (68)

天然染料敏化太阳能电池的制备——一个大学化学综合性实验 ..... 兰章 (75)

4'-{2-[5-(4-羧基苯基)咪喃基]}-2,2':6',2"-三联吡啶的合成——推荐一个大学有机化学实验

..... 付伟伟 易庆 金霞 旷香 汤子晴 (82)

### 师生笔谈

将矿物学理论与实验知识引入基础无机化学教学的探讨 ..... 王志鹏 (86)

医用有机化学教学经验谈 ..... 刘芸 (93)

### 动态与信息

勘误 (22)