

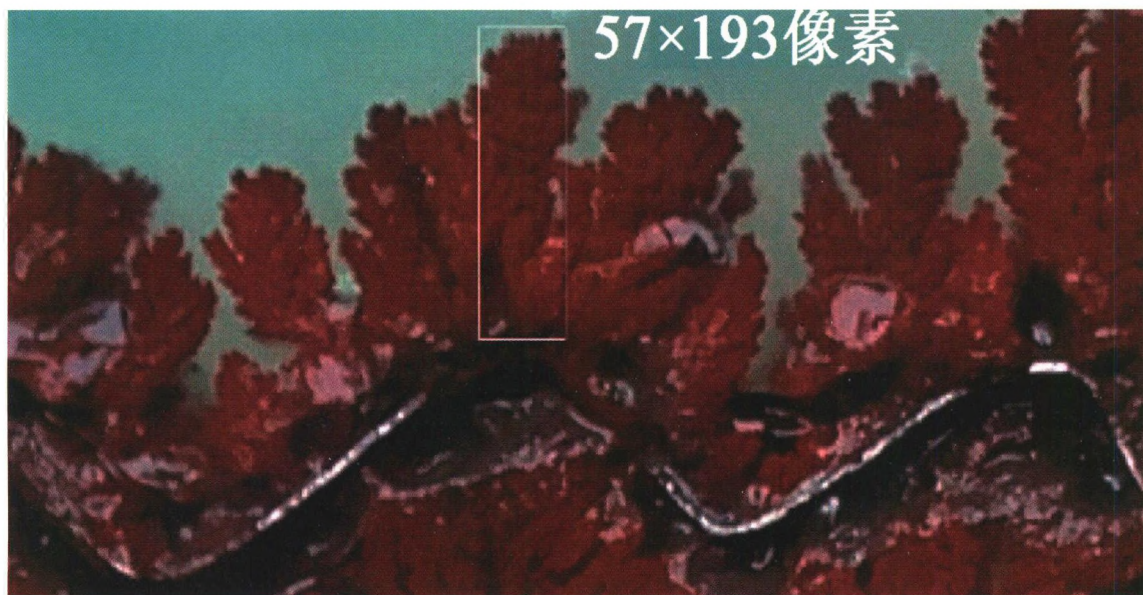
全国中文核心期刊
美国化学文摘 (CA) 收录源期刊

QK2137180

化学教育 (中英文)

Chinese Journal of Chemical Education

2021年 第42卷 第19期 Vol.42 No.19



邮发代号: 2-106

ISSN 1003-3807



HUAXUE JIAOYU

万方数据



CHINESE
CHEMICAL
SOCIETY



主管: 中国科学技术协会
主办: 中国化学会
北京师范大学

化学·生活·社会

舌尖上的化学之麻婆豆腐 王瑶 程福英 伍晓春 (1)

课程·教材·评价

鲁科版高中化学新教材学生必做实验解读及教学建议 严文法 穆雯星 (10)

基于加涅学习结果分类理论的化学新教材习题比较研究——以“物质结构基础及化学反应规律”为例 张婷 姜建文 (16)

优质课例

“电离与离子反应”的单元教学设计与实施——食盐精制：从微观角度看粗盐中可溶性杂质的去除 胡久华 董娜 陈颖 尹博远 庞雪 金雅娟 (23)

核心素养视域下化学与生活深度融合的教学——以“碳酸钠和碳酸氢钠的性质及应用”为例 柳张凤 吴云 张贤金 黄莉 张小丹 (30)

以问题驱动培养初中生定量实验能力的实践——以“测定混有碳酸钠的氯化钠样品中碳酸钠含量”为例 张纯佩 (36)

教学研究

基于化学学科理解的“化学平衡常数”教学设计与实施研究 庄严 郑长龙 赵红杰 姜显光 王小熙 陈彬 (42)

化学学科理解视域下的教材单元整体备课 洪清娟 (49)

高中生原电池模型认知能力测评工具开发及其应用研究 李艳灵 梁丹蕾 阮北 李川 刘敬华 (56)

核心素养视域下化学学科知识的教学困境及消解策略 王保强 (63)

基于元素化合物认识模型的单元教学设计实践探索——以“铁及其化合物”单元教学为例 上官庆景 阮雪丹 (69)

基于眼动追踪技术的高中生化学问题解决的差异性研究——以“氧化还原反应”为例 欧阳雪 李远蓉 (75)

教师教育

理科教师教学反思实证研究特点与展望 马愿愿 王后雄 (82)

实验教学与教具研制

应用手持技术数字化实验测定化学平衡常数——以 $\text{Fe}^{3+}/\text{SCN}^-$ 平衡体系为例 李林森 钱扬义 蔡丹菊 黄倩莹 朱庆 (87)

卤化物对铜铝置换反应速率的影响研究 陈亭 黄萍 文洁成 冉鸣 (92)

问题讨论与思考

铁与氯气反应的产物分析 潘书恒 程萍 胡帅杭 (96)

基础化学教学中科学理解“化学平衡常数”的几点看法 余金花 方文军 厉刚 (102)

化学史与化学史教育

索伦森与 pH 杨承印 何亚萍 (106)

论文简报

非物质文化遗产融入中学化学教学的初探 郑敏艺 黄紫洋 (110)

我国古代科技典籍中化学实验素材的开发和使用 顾晔 (111)

科学家精神引领下的科学阅读实践研究 罗嘉 王伟群 (112)

中华优秀传统文化在化学教学中的应用 方昊成 (113)

2022年《化学教育》订阅通知 (81)

封面图片 (93)

CHINESE JOURNAL OF CHEMICAL EDUCATION

2021 Vol. 42 No. 19

Sponsored by Chinese Chemical Society and Beijing Normal University

Chemistry-Life-Society

Chemistry on the Tip of Tongue; Mapo Tofu WANG Yao CHENG Fu-Ying WU Xiao-Chun (1)

Curriculum-Teaching Materials-Assessment

Interpretation and Teaching Suggestions of Compulsory Experiments for Chemistry Textbooks of Senior High School Published by Shandong Science and Technology Press YAN Wen-Fa MU Wen-Xing (10)

A Comparative Study of Exercises in New Chemistry Textbook Based on Gagne's Study Result Classification Theory; Taking "Material Structure Basis and Chemical Reaction Law" as an Example ZHANG Ting JIANG Jian-Wen (16)

Excellent Lesson

Unit Teaching Design and Implementation of "Ionization and Ion Reaction"; From the Microscopic Perspective of the Removal of Soluble Impurities in Coarse Salt HU Jiu-Hua DONG Na CHEN Ying YIN Bo-Yuan PANG Xue JIN Ya-Juan (23)

Teaching of Deep Integration of Chemistry and Life from the Perspective of Core Literacy; Properties and Applications of Sodium Carbonate and Sodium Bicarbonate LIU Zhang-Feng WU Yun ZHANG Xian-Jin HUANG Li ZHANG Xiao-Dan (30)

Practice of Cultivating Junior High School Students' Quantitative Experiment Ability by Question-Driven; Determining the Content of Sodium Carbonate in Sodium Chloride Mixed with Sodium Carbonate ZHANG Chun-Pei (36)

Teaching Research

Teaching Design and Implementation of "Chemical Equilibrium Constant" Based on Understanding Chemistry Subject ZHUANG Yan ZHENG Chang-Long ZHAO Hong-Jie JIANG Xian-Guang WANG Xiao-Xi CHEN Bin (42)

Overall Preparation of Teaching Materials Unit in the Perspective of Chemistry Understanding HONG Qing-Juan (49)

Development and Application of Cognitive Ability Evaluation Tool for Galvanic Cell Model of Senior High School Students LI Yan-Ling LIANG Dan-Lei RUAN Bei LI Chuan LIU Jing-Hua (56)

Teaching Difficulties and Resolution Strategies of Chemistry Knowledge from the Perspective of Core Literacy WANG Bao-Qiang (63)

Practice Exploration of Unit Teaching Design Based on the Cognitive Model of Element Compounds; Taking "Iron and Its Compounds" Unit Teaching as an Example SHANG-GUAN Qing-Jing RUAN Xue-Dan (69)

Research on the Differences of High School Students' Chemical Problem Solving Based on Eye Tracking Technology; Taking "Redox Reaction" for Example OU-YANG Xue LI Yuan-Rong (75)

Teacher Education

Characteristics and Prospect of Empirical Research on Teaching Reflection of Science Teachers MA Yuan-Yuan WANG Hou-Xiong (82)

Experiment Teaching and Teaching Aid Development

Determining Chemical Equilibrium Constant With the Help of Hand-Held Technology; Taking Fe^{3+}/SCN^- Equilibrium System as an Example LI Lin-Shen QIAN Yang-Yi CAI Dan-Ju HUANG Qian-Ying ZHU Qing (87)

Effects of Halides on Rate of Cu-Al Replacement Reaction CHEN Ting HUANG Ping WEN Jie-Cheng RAN Ming (92)

Discussion and Thinking of Questions

Analysis of Reaction Products of Fe and Cl_2 PAN Shu-Heng CHENG Ping HU Shuai-Hang (96)

Some Arguments on Understanding of Chemical Equilibrium Constants in Basic Chemistry Teaching YU Jin-Hua FANG Wen-Jun LI Gang (102)

History of Chemistry and Chemical History Education

Soren Peter Lauritz Sorensen and the pH Scale YANG Cheng-Yin HE Ya-Ping (106)

化学教育(中英文)

(半月刊·1980年创中文刊·2017年变更为中英文刊)

2021年 第42卷 第19期 10月2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(中英文)》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.chemsoc.org.cn>

顾问 刘知新

主编 刘正平

副主编 姜雪峰 施展 孙世刚 王磊

王祖浩 杨屹 郑长龙 朱玉军(专职)

刊名题字 戴安邦

印刷装订 保定华泰印刷有限公司

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 10 - 1515/O6

国内邮发代号 2-106

国外发行代号 M3070

定价 26.00 元

CHINESE JOURNAL OF CHEMICAL EDUCATION

2021 Vol. 42 No. 19

Sponsored by Chinese Chemical Society and Beijing Normal University

Chemistry-Life-Society

Chemistry on the Tip of Tongue; Mapo Tofu WANG Yao CHENG Fu-Ying WU Xiao-Chun (1)

Curriculum-Teaching Materials-Assessment

Interpretation and Teaching Suggestions of Compulsory Experiments for Chemistry Textbooks of Senior High School Published by Shandong Science and Technology Press YAN Wen-Fa MU Wen-Xing (10)

A Comparative Study of Exercises in New Chemistry Textbook Based on Gagne's Study Result Classification Theory; Taking "Material Structure Basis and Chemical Reaction Law" as an Example ZHANG Ting JIANG Jian-Wen (16)

Excellent Lesson

Unit Teaching Design and Implementation of "Ionization and Ion Reaction"; From the Microscopic Perspective of the Removal of Soluble Impurities in Coarse Salt HU Jiu-Hua DONG Na CHEN Ying YIN Bo-Yuan PANG Xue JIN Ya-Juan (23)

Teaching of Deep Integration of Chemistry and Life from the Perspective of Core Literacy; Properties and Applications of Sodium Carbonate and Sodium Bicarbonate LIU Zhang-Feng WU Yun ZHANG Xian-Jin HUANG Li ZHANG Xiao-Dan (30)

Practice of Cultivating Junior High School Students' Quantitative Experiment Ability by Question-Driven; Determining the Content of Sodium Carbonate in Sodium Chloride Mixed with Sodium Carbonate ZHANG Chun-Pei (36)

Teaching Research

Teaching Design and Implementation of "Chemical Equilibrium Constant" Based on Understanding Chemistry Subject ZHUANG Yan ZHENG Chang-Long ZHAO Hong-Jie JIANG Xian-Guang WANG Xiao-Xi CHEN Bin (42)

Overall Preparation of Teaching Materials Unit in the Perspective of Chemistry Understanding HONG Qing-Juan (49)

Development and Application of Cognitive Ability Evaluation Tool for Galvanic Cell Model of Senior High School Students LI Yan-Ling LIANG Dan-Lei RUAN Bei LI Chuan LIU Jing-Hua (56)

Teaching Difficulties and Resolution Strategies of Chemistry Knowledge from the Perspective of Core Literacy WANG Bao-Qiang (63)

Practice Exploration of Unit Teaching Design Based on the Cognitive Model of Element Compounds; Taking "Iron and Its Compounds" Unit Teaching as an Example SHANG-GUAN Qing-Jing RUAN Xue-Dan (69)

Research on the Differences of High School Students' Chemical Problem Solving Based on Eye Tracking Technology; Taking "Redox Reaction" for Example OU-YANG Xue LI Yuan-Rong (75)

Teacher Education

Characteristics and Prospect of Empirical Research on Teaching Reflection of Science Teachers MA Yuan-Yuan WANG Hou-Xiong (82)

Experiment Teaching and Teaching Aid Development

Determining Chemical Equilibrium Constant With the Help of Hand-Held Technology; Taking Fe^{3+}/SCN^- Equilibrium System as an Example LI Lin-Shen QIAN Yang-Yi CAI Dan-Ju HUANG Qian-Ying ZHU Qing (87)

Effects of Halides on Rate of Cu-Al Replacement Reaction CHEN Ting HUANG Ping WEN Jie-Cheng RAN Ming (92)

Discussion and Thinking of Questions

Analysis of Reaction Products of Fe and Cl_2 PAN Shu-Heng CHENG Ping HU Shuai-Hang (96)

Some Arguments on Understanding of Chemical Equilibrium Constants in Basic Chemistry Teaching YU Jin-Hua FANG Wen-Jun LI Gang (102)

History of Chemistry and Chemical History Education

Soren Peter Lauritz Sorensen and the pH Scale YANG Cheng-Yin HE Ya-Ping (106)

化学教育(中英文)

(半月刊·1980年创中文刊·2017年变更为中英文刊)

2021年 第42卷 第19期 10月2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(中英文)》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.chemsoc.org.cn>

顾问 刘知新

主编 刘正平

副主编 姜雪峰 施展 孙世刚 王磊

王祖浩 杨屹 郑长龙 朱玉军(专职)

刊名题字 戴安邦

印刷装订 保定华泰印刷有限公司

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 10 - 1515/O6

国内邮发代号 2-106

国外发行代号 M3070

定价 26.00 元