

- 化学类中文核心期刊
- 中国科学引文数据库统计源刊
- 中国学术期刊综合评价数据库统计源刊
- 中国期刊全文数据库全文收录期刊
- 中国科技论文统计源刊 (中国科技核心期刊)

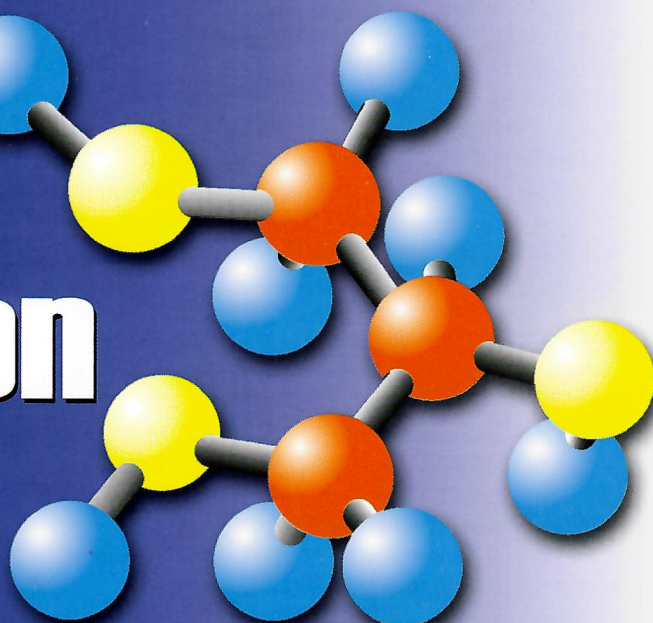
- 美国《化学文摘》(CA)收录期刊
- 《Ulrich Directory》收录期刊
- 《中国化工文摘》收录期刊
- 《中国药学文摘》收录期刊

ISSN 1004-1656 CN 51-1378/O6

化学研究与应用

H U A X U E Y A N J I U Y U Y I N G Y O N G

**Chemical
Research
and
Application**



ISSN 1004-1656



第34卷
2022

5

化学研究与应用

2022年(第34卷)第5期

目次

评论与综述

- 吡啉衍生物的合成及抗肿瘤活性研究进展 … 陶世林,樊思莉,侯 迷,梁俸铭,朱 莉,周志旭,王贞超,欧阳贵平 (937)
- 槐定碱及其衍生物的生物构效关系研究进展 …………… 龙 雨,仇 干,刘 旭,王立升,郑怀礼 (947)
- 纳米金的合成方法研究进展 …………… 吴 睿,季晓晖,刘存芳,熊海涛,张 丹,刘 洋,郭小华 (952)

研究论文

- 臭氧/紫外线去除水中亚硝基吡咯烷的研究 …………… 丁春生,高梦颖,姜 明,雷 佳 (959)
- MnWO₄/WO₃ 复合光催化剂的制备及其在含油废水处理中的应用 …………… 李 薇 (964)
- 基于纳米钴/聚 L-半胱氨酸的抗坏血酸电化学传感器的制备与研究 …………… 黄宝美,郭俊春,蒲 黎,胡卿珍 (974)
- 锰基催化剂制备及其对甲基橙染料废水处理 …………… 张世铭,戴小凤,徐 苏 (979)
- 石墨烯/聚乙烯亚胺复合修饰电极伏安测定鸮尾苷 …………… 王安亭,卫应亮,王 芳,李永程 (988)
- 牛血清白蛋白修饰电色谱整体柱的微波辅助合成研究 …………… 张雪娇,齐暑华,刘春叶,成 昭,霍凤凤 (995)
- 多氯联苯生物降解速率常数的 QSAR 模型 …………… 杨杰元,杨雪颖,杨沛艳,冯 惠,冯长君 (1001)
- 基于零流位法的氯吡嗪分子印迹聚合物印迹吸附 …………… 马明明,何成毅,崔淑慧,刘 佳 (1008)
- 基于虚拟筛选方法从化合物数据库中筛选 SARS-COV-2 的 2'-O-甲基转移酶抑制剂 …………… 储晓慧,宋 昱,温泽宇,王晓雨,于宗霞 (1016)
- 百色红茶多糖提取工艺优化及其对油脂抗氧化活性研究 …… 洗丽清,李 珊,冯 彬,梁 俭,潘笑欢,钟琼林 (1025)
- 海藻酸钠/聚乙烯醇水凝胶的制备及其形状记忆与药物释放行为研究 …………… 钟海艺,张乙梅,郭 庆,黄星海 (1032)
- 酰胺基双 Schiff 碱仲胺荧光探针的合成及对 Pb²⁺ 的识别研究 …………… 蔡丽华,徐文广,陈云峰 (1039)
- 吡啉类组蛋白去乙酰化酶抑制剂的合成及抗肿瘤活性 …………… 韩 潇,曾慧君,陈慧琼 (1046)
- 磁性硅藻土杂化 ZIF-7 材料对水中 Cr(VI) 的吸附研究 …… 李艳君,肖新峰,李 娜,凌 菲,高 宇,李 琳,薛建良 (1054)
- 原位酶交联羧甲基壳聚糖/葡萄糖水凝胶的制备与表征 …… 裴大婷,曾志文,周小雁,国翠平,耿志杰,鲁道欢,于 珊 (1061)
- 氮掺杂石墨烯/离子液体复合材料电极对肾上腺素的电催化氧化研究 …………… 刘新胜,胡 媛,李永红 (1070)
- 三维蜂窝状花生壳基炭电极对 Cr(VI) 的电容去离子性能研究 …… 张晓飞,郑哲奎,牛桂玲,范美青,高洪成,苏浩男 (1077)
- 双 5-苄基-1,3,4-噁二唑衍生物的合成,晶体结构和乙酰胆碱酯酶抑制活性研究 …………… 杨 顺,武文龙,邹靖培,钱晶晶,刘玉委,尹福军,史大华 (1083)
- 有序银纳米壳阵列的可控制备及其 SERS 性能 …………… 饶艳英,邹寓芳,高友锐,孙清瑜,李章良 (1091)
- 脲氨基-β-环糊精衍生物开管柱的制备及其手性拆分应用 …………… 李 雪,李英杰,秦世丽,高立娣,唐艺旻 (1099)
- K₈[Fe(H₂O)W₁₁CdO₃₉]/PAN/CeO₂ 复合材料的制备、表征及光催化性能 … 刘桐桐,单秋杰,陈 林,陈 伟,赵春艳 (1104)
- Fenton 氧化对页岩气压裂废水的氧化降解性能研究 …………… 田 静,丁 一,李明轩,生晓茹,宋林花,姜翠玉 (1113)
- 高产率 ZIF-L 的可控制备及对 VO₃⁻ 的高效去除 …………… 何家霖,张佩聪,黄 艺,李峻峰,张文涛,丁秋权 (1120)
- 不同尺寸氧化石墨烯的制备及其对亚甲基蓝的吸附行为 …………… 张 喆,郝丽英 (1129)
- 糖苷-氮杂环卡宾-钨-吡啶配合物及其高效催化水相 Suzuki 反应 …… 温小明,王 健,贺 峦,何 鹏,刘宇龙,周中高 (1136)
- 石化废水中 10 种苯系物的顶空-气相色谱法研究 …………… 孙晓英,葛 涛,赵传景,王化吉 (1145)
- HPLC 指纹图谱对不同产地远志散的质量评价研究 … 刘青松,王少锋,李 斌,李佳欣,郝彦伟,肖 特,石 钢 (1150)
- 木材表面 PMHS/V4 有机硅树脂疏水涂层的制备 …………… 曹梦婷,张欣向 (1156)
- 二环己基 18-冠醚-6 对放射性废液中⁹⁰Sr 的萃取性能研究 … 王定娜,李宛琼,刘 伟,陈云明,冯伟伟,胡 银,梁帮宏 (1164)
- 硅锆合金热电性能统计分布规律及热电器件结构研究 …………… 张一凡,陈晓曦,张迎增,杨楚汀,李 静 (1172)

研究简报

- 废脱硝催化剂制备偏钛酸的水解参数研究 …………… 吴 涛,邓巧莲,邓 雷,段明华,刘红辉 (1181)
- 水热合成不同形貌的氧化锌和机理分析 …………… 郎五可,刘市伟,郭晓伟,兰纪红 (1188)
- “水热法”研究亚临界状态对水分子簇的影响 …………… 易 斌,李雯琦,廖晓祥,刘丹楹,熊开胜,唐 军,林文强,黄江华,张立斌,邓佩珊,聂 蓉,毛 震,索自立,李 晖,范 羿 (1194)
- 碳点掺杂二氧化硅水凝胶热稳定性研究 …………… 杨双梅,汪 倩,邹 丽,廖承绪,孙永华 (1200)
- 硫化铋对气态碘的吸附性能研究 …………… 刘媛媛 (1206)

新技术与应用

- 苯甲酸酯类紫外吸收剂的合成及性能 …………… 尹小东,薛蒙伟,张敦林 (1212)
- 电感耦合等离子体光谱法同时测定不同类型地质样品七种元素方法的研究 …… 许晓慧,谷周雷,张晓敏,刘 卫,张 云 (1218)
- 水和斑马鱼鱼体中精草铵膦残留的检测 …………… 徐 漫,蔡小宇,田 丰,吴文铸,石利利 (1223)
- 6-([6-(三氟甲基)吡啶-3-基]甲基)氨基)吡啶-3-甲醛的合成 …… 童 航,詹一丰,何世波,王溥照,刘明星 (1229)

中文目次(封2) 英文目次(封3)

期刊基本参数:CN 51-1378/O6 * 1989 * b * 16 * 296 * zh+en * P * ¥10.00 * 1250 * 42 * 2022-05

CHEMICAL RESEARCH AND APPLICATION

Vol. 34 NO.4 Apr.2022 Monthly

Contents

Reviews and Summary Accounts

- Development for synthesis and anti-tumor activity of indazole derivatives TAO Shi-lin, FAN Si-li, HOU Mi, LIANG Feng-ming, ZHU Li, ZHOU Zhi-xun, WANG Zhen-chao, OU YANG Gui-ping (937)
- Research progress on structural modification and biological activity of sophoridine LONG Yu, QIU Gan, LIU Xu, WANG Li-sheng, ZHENG Huai-li (947)
- Recent advances in the synthetic methods of Au nanoparticles WU Rui, JI Xiao-hui, LIU Cun-fang, XIONG Hai-tao, ZHANG Dan, LIU Yang, GUO Xiao-hua (952)

Academic Papers

- Study on the removal of nitrosopyrrolidine by ozone/ultraviolet rays DING Chun-sheng, GAO Meng-ying, JIANG Ming, LEI Jia (959)
- Preparation of $MnWO_4/WO_3$ composite photocatalyst and its application in the treatment of oil-containing wastewater LI Wei (964)
- Preparation and study of ascorbic acid electrochemical sensor based on Nano-Co/Poly-L-Cys HUANG Bao-mei, GUO Jun-chun, PU Li, HU Qing-zhen (974)
- Preparation of manganese based catalyst and its application in methyl orange dye wastewater treatment ZHANG Shi-ming, DAI Xiao-feng, XU Su (979)
- Voltammetric determination of tectoridin by using graphene/polyethyleneimine modified glassy carbon electrode WANG An-ting, WEI Ying-liang, WANG Fang, LI Yong-cheng (988)
- Microwave assisted synthesis and evaluation of monolithic column modified by bovine serum albumin for capillary electrochromatography ZHANG Xue-jiao, QI Shu-hua, LIU Chun-ye, CHENG Zhao, HUO Feng-feng (995)
- QSAR models of rate constant for biodegradation for polychlorinated biphenyls YANG Jie-yuan, YANG Xue-ying, YANG Pei-yan, FENG Hui, FENG Chang-jun (1001)
- Imprinted adsorption of forchlorfenuron by molecular imprinted polymer based on zero-current potential method MA Ming-ming, HE Cheng-yi, CUI Shu-hui, LIU Jia (1008)
- Discovery of SARS-CoV-2 2'-O-methyltransferase (NSP16) inhibitors from compound database based on virtual screening CHU Xiao-hui, SONG Yu, WEN Ze-yu, WANG Xiao-yu, YU Zong-xia (1016)
- Optimization of extraction technology of polysaccharides from Baise-Black Tea and its antioxidant activity on grease XIAN Li-qing, LI Shan, FENG Bin, LIANG Jian, PAN Xiao-huan, ZHONG Qiong-lin (1025)
- Preparation of sodium alginate/polyvinyl alcohol hydrogels and studies of their stimulus-responsive shape memory and drug release behavior ZHONG Hai-yi, ZHANG Yi-mei, GUO Qing, HUANG Xing-hai (1032)
- Synthesis and selective recognition of Pb^{2+} ions by bis-Schiff Base amine containing amide bridge fluorescent probe CAI Li-hua, XU Wen-guang, CHEN Yun-feng (1039)
- Synthesis and anti-tumor activity of histone deacetylase inhibitors based indazole scaffold HAN Xiao, ZENG Hui-jun, CHEN Hui-qiong (1046)
- Adsorption of Cr(VI) in water by magnetically modified diatomite hybrid ZIF-7 material LI Yan-jun, XIAO Xin-feng, LI Na, LING Fei, GAO Yu, LI Lin, XUE Jian-liang (1054)
- Preparation and characterization of carboxymethyl chitosan/glucose hydrogel in situ cross-linked by enzyme PEI Da-ting, ZENG Zhi-wen, ZHOU Xiao-yan, GUO Cui-ping, GENG Zhi-jie, LU Dao-huan, YU Shan (1061)
- Electrocatalytic oxidation of epinephrine on the nitrogen doped graphene/ionic liquid composite materials electrode LIU Xin-sheng, HU Yuan, LI Yong-hong (1070)
- Study on capacitive deionization of Cr(VI) by 3D honeycomb-like peanut shell based carbon electrode ZHANG Xiao-fei, ZHENG Zhe-kui, NIU Gui-ling, FAN Mei-qing, GAO Hong-cheng, SU Hao-nan (1077)
- Synthesis, crystal structure and acetylcholinesterase-inhibition activities of bis 5-benzyl-1,3,4-oxadiazole derivatives YANG Shun, WU Wen-long, ZOU Jing-pei, QIAN Jing-jing, LIU Yu-wei, YIN Fu-jun, SHI Da-hua (1083)
- Controlled preparation of ordered silver nanoshell material and its SERS performance research RAO Yan-ying, ZOU Yu-fang, GAO You-rui, SUN Qing-yu, LI Zhang-liang (1091)
- Preparation and enantioseparation application of urea amino- β -cyclodextrin derivative open-tubular column LI Xue, LI Ying-jie, QIN Shi-li, GAO Li-di, TANG Yi-min (1099)
- Preparation, characterization and photocatalytic performance of $K_8[Fe(H_2O)W_{11}CdO_{39}]/PANI/CeO_2$ composite LIU Tong-tong, SHAN Qiu-jie, CHEN Lin, CHEN Wei, ZHAO Chun-yan (1104)
- Oxidative degradation of shale gas fracturing wastewater by Fenton oxidation TIAN Jing, DING Yi, LI Ming-xuan, SHENG Xiao-ru, SONG Lin-hua, JIANG Cui-yu (1113)
- Controlled preparation of ZIF-L with high yield and efficient removal of VO_3^- HE Jia-lin, ZHANG Pei-cong, HUANG Yi, LI Jun-feng, ZHANG Wen-tao, DING Qiu-quan (1120)
- Preparation of different sizes of graphene oxide and its adsorption behavior for methylene blue ZHANG Zhe, HAO Li-ying (1129)
- Synthesis of glucopyranoside-functionalized N-heterocyclic carbenes-Pd-pyridine complexes for efficient Suzuki reaction in water WEN Xiao-ming, WANG Jian, HE Luan, HE Peng, LIU Yu-long, ZHOU Zhong-gao (1136)
- Determination of ten benzene series by headspace gas chromatography in petrochemical wastewater SUN Xiao-ying, GE Tao, ZHAO Chuan-jing, WANG Hua-ji (1145)
- Study on the quality evaluation of Yuanzhi powder in different origins by HPLC fingerprint LIU Qing-song, WANG Shao-feng, LI Bin, LI Jia-xin, HAO Yan-wei, XIAO Te, SHI Gang (1150)
- Preparation of the hydrophobic coating of PMHS/V4 silicone resin on the wood surface CAO Meng-ting, ZHANG Xin-xiang (1156)
- Study on the extraction performance of ^{90}Sr from radioactive waste liquid by dicyclohexyl-18-crown-6 WANG Ding-na, LI Wan-qiong, LIU wei, CHEN Yun-ming, FENG Wei-wei, HU Yin, LIANG Bang-hong (1164)
- Statistical distribution of thermoelectric properties of SiGe alloys and structure of thermoelectric module ZHANG Yi-fan, CHEN Xiao-xi, ZHANG Ying-zeng, YANG Chu-ting, LI Jing (1172)

Research Notes

- Study on hydrolysis parameters for preparation of metatitanic acid from spent denitration catalyst WU Tao, DENG Qiao-lian, DENG Lei, DUAN Ming-hua, LIU Hong-hui (1181)
- Hydrothermal synthesis and formation mechanism analysis of ZnO with diverse morphologies LANG Wu-ke, LIU Shi-wei, GUO Xiao-wei, LAN Ji-hong (1188)
- Study on the influence of subcritical state on water clusters by "hydrothermal method" YI Bin, LI Wen-qi, LIAO Xiao-xiang, LIU Dan-ying, XIONG Kai-sheng, TANG Jun, LIN Wen-qiang, HUANG Jiang-hua, ZHANG Li-bin, DENG Pei-shan, NIE Rong, MAO Zhen, SUO Zi-li, LI Hui, FAN Yi (1194)
- Study on heat treatment stability of carbon dot doped silica aerogel YANG Shuang-mei, WANG Qian, ZOU Li, LIAO Cheng-xu, SUN Yong-hua (1200)
- Efficient adsorption of gaseous iodine by Bi_2S_3 inorganic sorbent LIU Yuan-yuan (1206)

New Techniques and Application

- Synthesis and ultraviolet absorption properties of new benzoate ultraviolet absorbers YIN Xiao-dong, XUE Meng-wei, ZHANG Dun-lin (1212)
- Study on simultaneous determination of seven elements in different geological samples by inductively coupled plasma spectrometry XU Xiao-hui, GU Zhou-lei, ZHANG Xiao-min, LIU Wei, ZHANG Yun (1218)
- Determination of glufoisinate-P-ammonium residues in water and *Brachydanio rerio* XU Man, CAI Xiao-yu, TIAN Feng, WU Wen-zhu, SHI Li-li (1223)
- Synthesis of 6-([6-(trifluoromethyl) pyridin-3-yl] methyl) amino) pyridine-3-carbaldehyde TONG Hang, ZHAN Yi-feng, HE Shi-bo, WANG Pu-zhao, LIU Ming-xing (1229)