

# 化 学 研 究 与 应 用

2010 年(第 22 卷)第 7 期

## 目 次

### 评论与综述

- $\beta$ -羟基酸酯合成方法的研究进展 ..... 崔颖娜, 钟文辉, 贾颖萍, 尹静梅 (809)

### 研究论文

#### 含一维阶梯状 $[CuI]_n$ 链配位聚合物 $[CuI(Hna)]_n$ 的合成及晶体结构

- ..... 刘冬成, 吴旭先, 陈自卢, 秦愫妮, 蒋丽萍, 祖超, 周素平, 梁福沛 (816)

#### 溴代 4-羟基硝基二苯醚类化合物的合成 ..... 邹燕, 唐雪, 代富英, 罗娟, 王玉良, 王玉忠, 陈恬 (821)

#### 阿替洛尔与紫色素的荷移反应研究 ..... 刘佳川, 方芳, 穆伟, 李华侃 (826)

#### 多壁碳纳米管/玻璃纤维/含邻苯二甲腈的苯并噁嗪树脂复合材料的电学与力学性质

- ..... 马晓艳, 曹国萍, 左芳, 赵睿, 刘孝波 (830)

#### 南充市表层土壤中多环芳烃的源解析研究 ..... 史兵方, 张波, 王耀, 刘芳, 涂悦鸿, 杨秀培 (835)

#### 配合物 $(enH_2)_{0.5}[Zn(en)_3](SCN)_3$ 单晶生长与表征 ..... 晏琼, 宋宇超, 张建军 (841)

#### 某些胆酸及去氧胆酸类化合物的合成 ..... 陈思静, 张晓佳, 贾琳怡, 崔建国 (848)

#### Williamson 反应合成 2-月桂氨基-N,N-二甲基乙胺 ..... 沈斌, 陈洪龄 (853)

#### 基于埃洛石的载药凝胶小球的制备及性能研究 ..... 汪琴, 张俊平, 王爱勤 (858)

#### 3-(2-苯并呋喃甲酰甲基)喹唑啉酮的合成及抗球虫活性研究

- ..... 谢敏, 陈广民, 邹丽娟, 聂奎, 王玉良, 罗娟 (864)

#### 含硫杂环稀土配合物的合成、表征及光学性质 ..... 张勇, 廖莉玲, 邹文静, 张明时, 陈文生, 李存雄 (868)

#### 芳基取代咪唑衍生物的合成及其紫外、荧光性质研究 ..... 赵爱婷, 李财花, 曾和平 (874)

#### 纳米 $Al_2O_3/SiO_2$ 室温磷光复合材料的研究 ..... 鲁黎黎, 肖丹 (880)

### 研究简报

#### 大孔吸附树脂纯化绵阳产绞股蓝总皂苷的研究 ..... 罗娅君, 李辉容, 帅小燕 (884)

#### 柠檬酸-孔雀石绿系统催化动力学光度法测定痕量钒 ..... 魏成富, 王洪福, 罗娅君, 何黎明, 周瑶 (889)

#### 表面活性剂胶束对 MA-AA 复合振荡反应的影响 ..... 聂丽, 罗东丽, 刘凡, 程四清, 张元勤 (893)

#### 以联苯为骨架的羟基单咪唑鎓盐的合成 ..... 南光明, 秦元成 (898)

#### 纳米氧化锌的微乳液法制备 ..... 余利娟, 刘宝春, 韩静香 (902)

#### 非衍生纤维素高效液相色谱手性固定相的研究 ..... 马超, 艾萍, 张美, 彭雅, 袁黎明 (907)

#### $\alpha$ -葡萄糖苷酶抑制剂 Radicamine A 的合成 ..... 刘春艳, 孟爱国 (911)

#### 载体对 Cu 基催化剂富氢条件下 CO 氧化性能的影响 ..... 龚磊, 张宁, 罗来涛, 王亮, 故志勇 (915)

#### 微晶三苯甲烷分离富集和测定痕量镉 ..... 郑立庆, 刘艳, 李晶, 范顺利, 李全民 (920)

#### 具有聚酰胺结构特征的有机非线性光学材料的分子设计 ..... 刘俊, 李平忠, 徐祥云 (923)

#### 含硅二烃基锡苯氧乙酸配合物的合成与结构表征 ..... 林森, 肖灵虎, 江玉春, 邓锋杰, 揭克敏, 邓检阳 (926)

#### 人工细胞膜上天然酶与人工受体的分子间通讯 ..... 刘宝全, 赵明明, 王剑锋, 范圣第 (930)

### 新技术与应用

#### 耐水解高吸水树脂的合成与性能研究 ..... 谢静思, 张熙, 代华, 董海亚, 江献财 (934)

#### 气质联用法测定饮用水中 29 种挥发性有机物 ..... 唐雪惠, 李朝晖, 邓凤妮 (939)

#### 高效液相色谱法测定松针中莽草酸的含量 ..... 谢济运, 陈小鹏, 栗本超, 陈芳, 李志荣 (943)

#### 2-氨基-4'-甲基联苯的合成研究 ..... 李有桂, 吴祥瑞, 何伟 (948)

#### $\alpha$ -蒎烯、 $\beta$ -蒎烯和碳酸二甲酯气相色谱分析 ..... 王文祝, 李前, 陈小鹏, 王琳琳, 陈献锟 (953)

#### 4-氯-6-甲氧基-7-(N-甲基-4-哌啶甲氧基)喹唑啉的合成 ..... 庄韦, 赵海勇, 孙小强, 岳邦毅, 王皓 (957)

#### 铁氰化钾-三氯化铁显色体系分光光度法测定特布他林 ..... 郑立庆, 李晶, 范顺利, 高林晓, 李全民 (961)

#### 超声辅助分散液-液微萃取测定水样中的铜 ..... 杜新, 李卫宁, 张婧雯, 李超, 马晶军, 李敬慈 (965)

#### 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 \* 160 \* zh + en \* P \* ¥8.00 \* 1250 \* 34 \* 2010-07

# CHEMICAL RESEARCH AND APPLICATION

Vol. 22 NO. 7 July, 2010 Monthly

## Contents

### Reviews and Summary Accounts

- Research progress in synthesis of  $\beta$ -hydroxyesters ..... CUI Ying-na, ZHONG Wen-hui, JIA Ying-ping, YIN Jing-mei (809)

### Academic Papers

- Synthesis and crystal structure of [CuI(Hna)]<sub>n</sub> bearing 1D staircase chain [Cu]<sub>n</sub> ..... LIU Dong-cheng, WU Xu-xian, CHEN Zi-lu, QIN Su-ni, JIANG Li-ping, ZU Chao, ZHOU Su-ping, LIANG Fu-pei (816)

- Synthesis of brominated 4-hydroxy nitrodiphenyl ethers ..... ZOU Yan, TANG Xue, DAI Fu-ying, LUO Juan, WANG Yu-liang, WANG Yu-zhong, CHEN Tian (821)

- Study on the charge transfer reaction between atenolol with purpurin ..... LIU Jia-chuan, FANG Fang, MU Wei, LI Hua-kan (826)

- Electrical and mechanical properties of bisphthalonitrile containing benzoxazine/glass fiber/multi-walled carbon nanotube composites ..... MA Xiao-yan, CAO Guo-ping, ZUO Fang, ZHAO Rui, LIU Xiao-bo (830)

- Source apportionment of polycyclic aromatic hydrocarbons in surface soil from nanchong ..... SHI Bing-fang, ZHANG Bo, WANG Yao, LIU Fang, TU Yue-hong, YANG Xiup-pei (835)

- Growth and characterization of a new complex(enH<sub>2</sub>)<sub>0.5</sub>[Zn(en)<sub>3</sub>](SCN)<sub>3</sub> single crystal ..... YAN Qiong, SONG Yu-chao, ZHANG Jian-jun (841)

- Synthesis of some cholic acid and deoxycholic acid oximes ..... CHEN Si-jing, ZHANG Xiao-jia, JIA Lin-yi, CUI Jian-guo (848)

- Synthesis of 2-alkoxy-N,N-dimethylethylamines Williamson reaction ..... SHEN Bin, CHEN Hong-ling (853)

- Preparation and properties of drug loaded hydrogel beads based on halloysite ..... WANG Qin, ZHANG Jun-ping, WANG Ai-Qin (858)

- Synthesis and anticoccidial activity of 3-(2-benzofuran formylmethyl) quinazolinone ..... XIE Min, CHEN Guang-min, ZOU Li-juan, NIE Kui, WANG Yu-liang, LUO Juan (864)

- Synthesis, characterization and optical properties of rare earth complexes with sulf-heterocyclic ligand ..... ZHANG Yong, LIAO Li-ling, ZOU Wen-jing, ZHANG Ming-shi, CHEN Wen-sheng, LI Cun-xiong (868)

- Synthesis, ultraviolet and fluorescence properties of aromatic substituted imidazole compounds ..... ZHAO Ai-ting, LI Cai-hua, ZENG He-ping (874)

- Preparation of room-temperature phosphorescent Al<sub>2</sub>O<sub>3</sub>/SiO<sub>2</sub> nanocomposite ..... LU Li-li, XIAO Dan (880)

### Research Notes

- Study on purification of gypenosides from Gynostemma pentaphyllum (Thunb) Makino of miyang with macroporous absorptive resin ..... LUO Ya-jun, LI Hui-rong, SHUAI Xiao-yan (884)

- Determination of trace vanadium(V) by citric acid-malachite catalytic kinetic spectrophotometry ..... WEI Cheng-fu, WANG Hong-fu, LUO Ya-jun, HE Li-ming, ZHOU Yao (889)

- The effects of surfactant micelles on the MA-AA complex oscillation ..... NIE Li, LUO Dong-li, LIU Fan, Cheng Si-qing, ZHANG Yuan-qin (893)

- Synthesis of hydroxy imidazolium salts from ( $\pm$ )-2,2'-dimethyl-6,6'-dinitro-1,1'-biphenyl ..... NAN Guang-ming, QIN Yuan-cheng (898)

- Preparation of nanometer Zinc oxide by microemulsion method ..... SHE Li-Juan, LIU Bao-Chun, HAN Jing-Xiang (902)

- A study on DMA-LiCl-cellulose chiral stationary phases in HPLC ..... MA Chao, AI Ping, ZHANG Mei, PENG Ya, YUAN Li-ming (907)

- Synthesis of Radicamine A as a  $\alpha$ -glucosidase inhibitor ..... LIU Chun-yan, Meng Ai-guo (911)

- Effects of various supports on CO oxidation over Cu-based catalysts in H<sub>2</sub>-rich gases ..... GONG Lei, ZHANG Ning, LUO Lai-Tao, WANG Liang, AO Zhi-Yong (915)

- Separation/preconcentration and determination of trace cadmium using microcrystalline triphenylmethane ..... ZHENG Li-qing, LIU Yan, LI Jing, FAN Shun-li, LI Quan-min (920)

- Molecular design of organic nonlinear optical materials with polyamide-like structural motif ..... LIU Jun, LI Ping-zhong, XU Xiang-yun (923)

- Synthesis and structure of diorganotin phenoxy acetic acid containing silicon ..... LIN Sen, XIAO Ling-hu, JIANG Yu-chun, DENG Feng-jie, JIE Ke-min, DENG Jian-yang (926)

- Intermolecular communication between a natural enzyme and an artificial receptor on artificial cell membranes ..... LIU Bao-quan, ZHAO Ming-ming, WANG Jian-feng, FAN Sheng-di (930)

### New Techniques and Application

- Preparation and properties of anti-hydrolyzing super absorbent resin P(AMPS + AA) ..... XIE Jing-si, ZHANG Xi, DAI Hua, DONG Hai-ya, JIANG Xian-cai (934)

- Determination of 29 volatile organic compounds in drinking water by GC/MS spectrometry ..... TANG Xue-Hui, LI Zhao-Hui, DENG Feng-Ni (939)

- Determination of the content of shikimic acid in pine needles by high performance liquid chromatography ..... XIE Ji-yun, CHEN Xiao-peng, SU Ben-chao, CHEN Fang, LI Zhi-rong (943)

- Study on the synthesis and application of 2-cyano-4'-methylbiphenyl ..... LI You-gui, WU Xiang-rui, HE Wei (948)

- Gas chromatograph analysis of  $\alpha$ -Pinene,  $\beta$ -Pinene and dimethyl carbonate ..... WANG Wen-zhu, LI Qian, CHEN Xiao-peng, WANG Lin-lin, CHEN Xian-kun (953)

- Synthesis of 4-chloro-6-methoxy-7-(1-methylpiperidin-4-ylmethoxy)qui-nazoline ..... ZHUANG Wei, ZHAO Hai-yong, SUN Xiao-qiang, YUE Bang-ji, WANG Zhe (957)

- Spectrophotometric determination of terbutaline using K<sub>3</sub>[Fe(CN)<sub>6</sub>]-FeCl<sub>3</sub> ..... ZHENG Li-qing, LI Jing, FAN Shun-li, GAO Lin-xiao, LI Quan-min (961)

- Ultrasound-assisted dispersive liquid-liquid microextraction for determination of trace copper in water samples ..... DU Xin, LI Wei-ning, ZHANG Jing-wen, LI Chao, MA Jing-jun, LI Jing-ci (965)