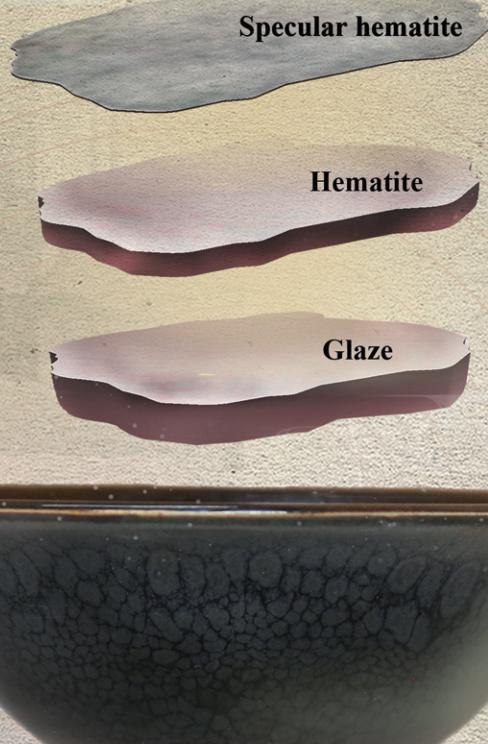
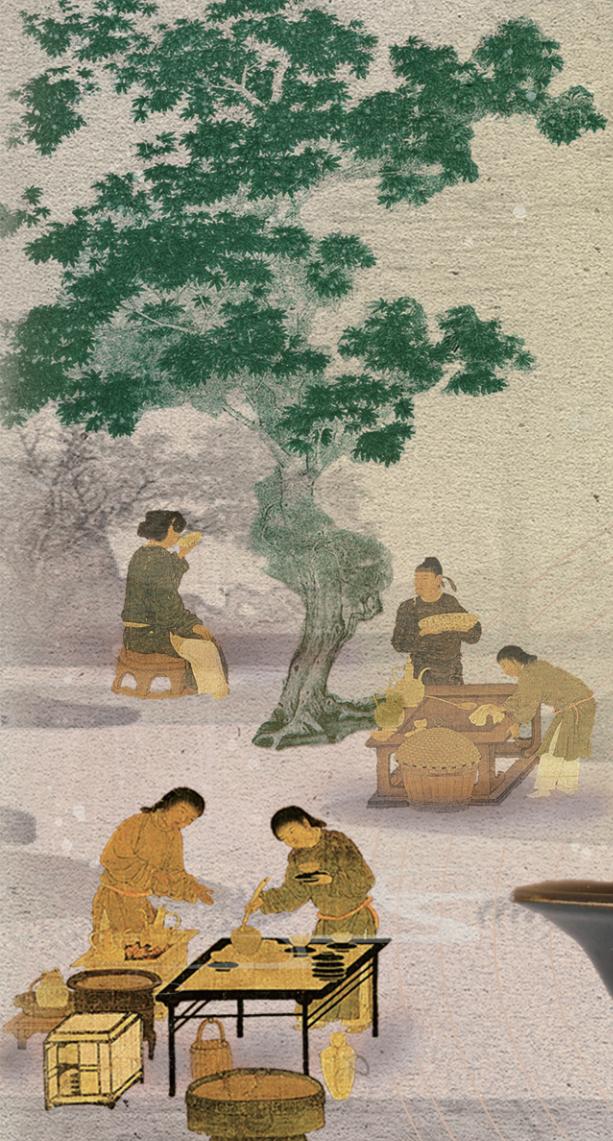


质谱学报

JOURNAL OF CHINESE MASS SPECTROMETRY SOCIETY

2023 Vol.44 No. 1



目 次

综述

中药多成分药代动力学分析技术研究进展 李元元,王彩虹,生 宁,马聪玉,张金兰(1)

研究报告

基于四极杆-线形离子阱串联质谱技术测量血清 25O HD

..... 谢 洁,易可可,高文静,刘 浩,李家练,黄泽建,刘梅英,余青霓,王涵文,江 游,戴新华,方 向(13)

宋代黑釉茶盏油滴的飞行时间二次离子质谱表征 徐子琪,赵煊赫,梁汉东,李展平,铁 健(25)

双势阱平面离子阱的设计与模拟研究

..... 王新宇,任 熠,洪 义,黄 奇,陈政阁,袁立永,黄正旭,李 梅,周 振(34)

研究简报

复杂油样中硫化氢的直接质谱分析研究 张 源,郑亚君,路芳芳,张智平(46)

冷喷雾电离质谱法分析表征四逆汤中的酸碱非共价复合物 胡 琪,尚宇瀚,薛宏宇,马 强(55)

GC-Orbitrap MS 非靶向筛查进口儿童纺织品中未知化学危害物

..... 刘雅慧,李红艳,孔祥伟,王志娟,张 庆,马 强,吕 庆(66)

光电离质谱技术在线监测不同部位烟草裂解产物

..... 王 健,葛少林,谢映松,张 朝,黄 兰,汪 华,袁 龙,贾良元,仰 科,雷 振(78)

技术交流

基于 FPGA 的便携式四极杆质谱控制系统设计 葛卫敏,许春华,林利泉,陈家新,吴曼曼,乔 佳(87)

一种基于金阴极 MCP 的冷阴极电子源的研制 姚文静,刘术林,闫保军,张斌婷,韦雯露,彭华兴,杨玉真(96)

改良全蒸发技术测量铀同位素比

..... 张继龙,纪建臣,骆无瑕,刘 勇,王 岚,武朝辉,黎 春,高雪梅,韩叶良(105)

汽车罩光漆的同位素比值分析及保存条件影响研究 赵志东,孟 娇,张显强(113)

二烯橡胶燃烧残留物对火场汽油检验鉴定的干扰 李秋璠梓,金 静,李慷慨,滕汉飞,邓 亮,张金专(121)

期刊基本参数 :CN 11-2979 /TH * 1980 * b * A4 * 130 * Zh * P * ¥30.00 * 800 * 13 * 2023-01

本期执行编委 :郭寅龙,李金英,宋凤瑞

本期责任编辑 :沈 莹,王迎真

CONTENTS

Review

- Research Advance on Multi-Component Pharmacokinetic Analytical Techniques of Traditional Chinese Medicine
..... LI Yuan-yuan , WANG Cai-hong , SHENG Ning , MA Cong-yu , ZHANG Jin-lan(1)

Research Reports

- Determination of 25OHD in Serum Based on Quadrupole-Linear Ion Trap Tandem Mass Spectrometric Technique
..... XIE Jie , YI Ke-ke , GAO Wen-jing , LIU Hao , LI Jia-lian ,
HUANG Ze-jian , LIU Mei-ying , YU Qing-ni , WANG Han-wen , JIANG You , DAI Xin-hua , FANG Xiang(13)
Characterization of Oil Spots on Black-Glazed Teabowl Made in Song Dynasty by Time-of-Flight Secondary Ion Mass
Spectrometry XU Zi-qi , ZHAO Xuan-he , LIANG Han-dong , LI Zhan-ping , TIE Cai(25)
Design and Simulation of a Double Potential Well Flat Ion Trap WANG Xin-yu , REN Yi ,
HONG Yi , HUANG Qi , CHEN Zheng-ge , YUAN Li-yong , HUANG Zheng-xu , LI Mei , ZHOU Zhen(34)

Brief Research Reports

- Direct Mass Spectrometric Analysis of Hydrogen Sulfide in Complex Oil Samples
..... ZHANG Yuan , ZHENG Ya-jun , LU Fang-fang , ZHANG Zhi-ping(46)
Characterization of Acid-Base Non-Covalent Complexes in Sini Decoction Using Cold Spray Ionization-Mass
Spectrometry HU Qi , SHANG Yu-han , XUE Hong-yu , MA Qiang(55)
Non-targeted Screening of Unknown Chemical Hazards in Imported Children's Textiles by GC-Orbitrap MS
..... LIU Ya-hui , LI Hong-yan , KONG Xiang-wei , WANG Zhi-juan , ZHANG Qing , MA Qiang , LYU Qing(66)
On-line Monitoring of Tobacco Pyrolysis Products in Different Parts by Photoionization Mass Spectrometry
..... WANG Jian , GE Shao-lin , XIE Ying-song ,
ZHANG Zhao , HUANG Lan , WANG Hua , YUAN Long , JIA Liang-yuan , YANG Ke , LEI Zhen(78)

Technical Notes

- Design of Portable Quadrupole Mass Spectrometry Control System Based on FPGA
..... GE Wei-min , XU Chun-hua , LIN Li-quan , CHEN Jia-xin , WU Man-man , QIAO Jia(87)
Development of a Cold Cathode Electron Source Based on Gold Cathode MCP
..... YAO Wen-jing , LIU Shu-lin , YAN Bao-jun , ZHANG Bin-ting , WEI Wen-lu , PENG Hua-xing , YANG Yu-zhen(96)
Modified Total Evaporation Method for Highly Precise Measurement of Uranium Isotopes Ratio
..... ZHANG Ji-long ,
JI Jian-chen , LUO Wu-xia , LIU Yong , WANG Lan , WU Zhao-hui , LI Chun , GAO Xue-mei , HAN Ye-liang(105)
Isotope Ratio Analysis and Environmental Impact Study of Automotive Vanish
..... ZHAO Zhi-dong , MENG Jiao , ZHANG Xian-qiang(113)
Influence of Diene Rubber Combustion Residue on the Identification of Gasoline in Fire Debris
..... LI Qiu-fan-zi , JIN Jing , LI Kang-xu , TENG Han-fei , DENG Liang , ZHANG Jin-zhuan(121)

Serial Parameters : CN 11-2979 / TH * 1980 * b * A4 * 130 * Zh * P * ¥30.00 * 800 * 13 * 2023-01

Execution Editorial Board : GUO Yin-long , LI Jin-ying , SONG Feng-rui

Editors in Responsibility : SHEN Ying , WANG Ying-zhen