

目次 第22卷 第6期 2014年12月25日(卷终)

◆ 含能快递	(725)
◆ 观点	
关于炸药分子设计的几点看法	张朝阳 (726)
◆ 研究论文	
齐聚法合成高密度燃料环戊二烯三聚体	李春迎, 何飞, 徐强, 吕剑 (728)
三叠氮三乙酸甘油酯的合成及表征	刘亚静, 莫洪昌, 丁峰, 张丽洁, 高福磊, 姬月萍 (732)
三硝基乙基四嗪化合物的合成与表征	管鸣宇, 杨红伟, 吕春绪, 程广斌 (736)
二叠氮基乙二肟合成及表征	王小军, 苏强, 张广源, 王霞, 王俊峰 (741)
5,5'-联四唑-1,1'-二氧二羟铵(TKX-50)50克量级制备放大工艺	赵廷兴, 田均均, 李磊, 范桂娟, 张光全, 李鸿波, 黄明 (744)
四聚乙醛和硝酸铜氨体系谱学特性	霸书红, 周龙, 孙振兴, 王桂萍, 程秀莲, 杜雪峰 (748)
硝化剂及预处理条件对软木 NC 氮量及其分布影响	郝红英, 王飞俊, 张云华, 邵自强, 孙君 (752)
Mn ₃ O ₄ 微球的制备及其对高氯酸铵热分解的催化作用	李露明, 李兆乾, 马拥军, 裴重华 (758)
AlH ₃ /GAP 混合体系的热解特性	李磊, 程新丽, 牛菲, 李军, 赵孝彬 (762)
DNGTz 的非等温热分解动力学及热安全性	胡拥鹏, 赵旭芳, 赵宁宁, 严彪, 高红旭, 赵凤起, 胡荣祖, 宋纪蓉, 马海霞 (767)
HNF 的热分解动力学和热安全性	孙笑, 王娟, 周新利 (774)
对称的吡嗪并环脲基衍生物结构和性能的量子化学研究(英)	马丛明, 刘祖亮, 姚其正 (780)
固体推进剂矩形粘接试件的多角度拉伸试验	邱欣, 李高春, 姜爱民, 赵大鹏 (786)
高氯酸铵的包覆降感与应用研究	李玉斌, 黄辉, 潘丽萍, 张建虎, 李金山, 郑保辉 (792)
F2311 含量对 TATB 基 PBX 蠕变性能的影响	林聪妹, 刘佳辉, 刘世俊, 涂小珍, 黄忠, 李玉斌, 张建虎 (798)
正交试验法研究 DNAN 基熔铸炸药的装药工艺	金大勇, 王红星, 牛国涛, 王亲会, 王淑萍, 黄文斌, 曹少庭, 牛磊 (804)
负温度系数热敏电阻对半导体桥电爆性能影响	李勇, 李凯, 刘恩良, 周彬 (808)
激光冲击片雷管中飞片的结构优化及性能测试	王猛, 覃文志, 付秋菠, 何碧, 蒋明 (813)
钝感 Ni-Cr 金属桥膜换能元的制备及性能	王科伟, 杨正才, 刘海旭, 曾祥涛, 王昊静, 李宁, 潘守华, 曹建强, 周党锋 (819)
电流激励 Ni-Cr 桥带式电火工品发火模型	周庆, 焦清介 (824)
高压脉冲功率源等效参数对桥箔电爆性能影响规律	韩克华, 周俊, 任西, 刘甜, 奥成刚, 同红海 (828)
一种提高炮射智能弹药初速的新型发射装药方案	邹华, 陆欣, 周彦煌, 赵润祥 (834)
粒状发射药巴西试验的力学分析	陈言坤, 罗兴柏, 刘国庆, 甄建伟, 张艳明 (840)
颗粒模压发射药装药的点传火性能	焦旭英, 杜江媛, 张玉成, 贾永杰 (845)
超细 A5 传爆药制备工艺的改进	陈亚芳, 刘玉存, 王保国, 康建成, 赵文虎 (848)
硝基呋喃/CMDB 推进剂能量特性	付小龙, 樊学忠, 毕福强, 王晗, 李宏岩, 李吉祯, 刘小刚 (852)
高威力三级煤矿许用水胶炸药的设计与性能研究	汪海波, 郭子如, 宗琦 (857)
纳米 TiO ₂ /碳纳米管复合颗粒的制备及光催化降解 TNT 废水	杜仕国, 闫军, 汪明球, 王彬 (862)
高级氧化法中 H ₂ O ₂ 对 COD 的测定影响及消除	郭亮, 焦纬洲, 刘有智, 许承骋, 刘文丽, 李静 (867)
◆ 研究综述	
硝基吡啶类化合物的合成研究进展	郭俊玲, 曹端林, 王建龙, 王艳红, 乔瑞, 李永祥 (872)
◆ 研究快报	
一种含硝基-NNO-氧化偶氮基新型含能材料的合成与表征(英)	李辉, 赵凤起, 于倩倩, 朱蔚鹏, 王伯周 (880)
3,3'-二(氟偕二硝基)二呋喃基醚(FOF-13)新法合成(英)	王伯周, 翟连杰, 廉鹏, 李亚南, 李辉, 霍欢, 李祥志 (884)
◆ 读者·作者·编者	
向审稿人致谢(766) 向作者致谢(785) 《含能材料》“观点”征稿(803) 《含能材料》固体推进剂专栏征稿(839) 《含能材料》高品质炸药晶体研究专栏(856) 《含能材料》高效毁伤弹药专栏征稿(866) 火工烟火技术及相关技术创新学术研讨会成功举行(871) 《含能材料》第七届编委会在成都召开(883) 2014年(第六届)含能材料与钝感弹药技术研讨会成功召开(后插)	
2014年(第22卷)总目次	(·I·)

725 **Energetic Express**

Prospective

726 ZHANG Chao-yang

Several Viewpoints of Molecularly Designing Explosives

Article

728 LI Chun-ying, HE Fei, XU Qiang, Lü jian

Synthesis of High Density Fuel Tricyclopentadiene by Oligomerization

732 LIU Ya-jing, MO Hong-chang, DING Feng
ZHANG Li-jie, GAO Fu-lei, JI Yue-ping

Synthesis and Characterization of Triazidotriacetin

736 GUAN Ming-yu, YANG Hong-wei, Lü Chun-xu,
CHENG Guang-bin

Synthesis and Characterization of Trinitroethyl Compounds Derived from Tetrazine

741 WANG Xiao-jun, SU Qiang, ZHANG Guang-yuan,
WANG Xia, WANG Jun-feng

Synthesis and Characterization of Diazidoglyoxime

744 ZHAO Ting-xing, TIAN Jun-jun, LI Lei, FAN Gui-juan,
ZHANG Guang-quan, LI Hong-bo, HUANG Ming

Up-sizing 50 Grams-scale Synthesis Technology of Dihydroxylammonium 5,5'-Bistetrazole-1,1'-diolate (TKX-50)

748 BA Shu-hong, ZHOU Long, SUN Zhen-xing,
WANG Gui-ping, CHENG Xiu-lian, DU Xue-feng

Spectroscopic Properties of Metaldehyde and Copper Nitrate-ammonia Mixture

752 HAO Hong-ying, WANG Fei-jun, ZHANG Yun-hua,
SHAO Zi-qiang, SUN Jun

Effect of Nitration Agents and Soft Wood Treatment on Nitrogen Content and Uniformity of Nitrocellulose

758 LI Lu-ming, LI Zhao-qian, MA Yong-jun, PEI Chong-hua

Preparation of Mn_3O_4 Microspheres and Their Catalytic Effects upon Thermal Decomposition of Ammonium Perchlorate

762 LI Le, CHENG Xin-li, NIU Fei, LI Jun, ZHAO Xiao-bin

Pyrolysis Characteristic of AlH_3 /GAP System

767 HU Yong-peng, ZHAO Xu-fang, ZHAO Ning-ning,
YAN Biao, GAO Hong-xu, ZHAO Feng-qi, HU Rong-zu,
SONG Ji-rong, MA Hai-xia

Non-isothermal Thermal Decomposition Kinetics and Thermal Safety of DNGTz

774 SUN Xiao, WANG Juan, ZHOU Xin-li

Thermal Decomposition Kinetics and Thermal Safety of HNF

780 MA Cong-ming, LIU Zu-liang, YAO Qi-zheng

Quantum Chemical Studies on the Structures and Properties of Nitro Derivatives of Symmetric Pyrazino-dicycloureas

786 QIU Xin, LI Gao-chun, JIANG Ai-min, ZHAO Da-peng

Multi-angle Tensile Test for Solid Propellant Rectangular Adhesive Specimens

792 LI Yu-bin, HUANG Hui, PAN Li-ping, ZHANG Jian-hu,
LI Jing-shan, ZHENG Bao-hui

Desensitizing Technology of AP by Coating and its Application

798 LIN Cong-mei, LIU Jia-hui, LIU Shi-jun, TU Xiao-zhen,
HUANG Zhong, LI Yu-bin, ZHANG Jian-hu

Influence of F2311 Content on Creep Performance of TATB-based Polymer Bonded Explosive

804 JIN Da-yong, WANG Hong-xing, NIU Guo-tao,
WANG Qin-hui, WANG Shu-ping, HUANG Wen-bin,
CAO Shao-ting, NIU Lei

Charge Process of DNAN Based Melt Cast Explosive by Orthogonal Experiments

808 LI Yong, LI Kai, LIU En-liang, ZHOU Bin

Influence of NTC Thermistors on Electro-explosive Performances of SCB

813 WANG Meng, QIN Wen-zhi, FU Qiu-bo, HE Bi,
JIANG Ming

Structure Optimization and Velocity Measurement of Flyer in Laser Slapper Detonator

Articles

819 WANG Ke-wei, YANG Zheng-cai, LIU Hai-xu,
ZENG Xiang-tao, WANG Hao-jing, LI Ning,
PAN Shou-hua, CAO Jian-qiang, ZHOU Dang-feng

Preparation and Characterization of Insensitive Ni-Cr Metal Film Igniting Component

824 ZHOU Qing, JIAO Qing-jie

Firing Model of Ni-Cr Bridge-belt Electric Initiating Devices under Current Input

828 HAN Ke-hua, ZHOU Jun, REC Xi, LIU Tian,
AO Cheng-gang, TONG Hong-hai

Effect of High Voltage Pulse Power Source Equivalent Parameter on Exploding Performance of Foil Bridge

834 ZOU Hua, LU Xin, ZHOU Yan-huang,
ZHAO Run-xiang

A New Firing Charge Concept of Increasing Intelligent Ammunition Muzzle Velocity

840 CHEN Yan-kun, LUO Xing-bai, LIU Guo-qing,
ZHEN Jian-wei, ZHANG Yan-ming

Mechanical Analysis of Granular Propellant by Brazilian Test

845 JIAO Xu-ying, DU Jiang-yuan, ZHANG Yu-cheng,
JIA Yong-jie

Ignition Performance of Grain-molded Gun Propellant Charge

848 CHEN Ya-fang, LIU Yu-cun, WANG Bao-guo,
KANG Jian-cheng, ZHAO Wen-hu

Preparation Improvement of Superfine A5 Booster Explosive

852 FU Xiao-long, FAN Xue-zhong, WANG Han,
BI Fu-qiang, LI Ji-zhen, LI Hong-yan, LIU Xiao-gang

Energy Characteristics of CMDDB Propellants with Nitrofurazan Compounds

857 WANG Hai-bo, GUO Zi-ruo, ZONG Qi

Experimental Study on High Power Class 3 Permissible Water Gel Explosive

862 DU Shi-guo, YAN Jun, WANG Ming-qiu, WANG Bin

Preparation of TiO₂/CNT Composite Particles and Application in the Photo-catalytic Degradation of TNT Wastewater

867 GUO Liang, JIAO Wei-zhou, LIU You-zhi,
XU Cheng-cheng, LIU Wen-li, LI Jing

Interference of H₂O₂ on COD Test and Removal Method for Advanced Oxidation Process

Review

872 GUO Jun-ling, CAO Duan-lin, WANG Jian-long,
WANG Yan-hong, QIAO Rui, LI Yong-xiang

Review on Synthesis of Nitropyrazoles

Letter

880 LI Hui, ZHAO Feng-qi, YU Qian-qian, LAI Wei-peng,
WANG Bo-zhou

A Novel Energetic Material Based on Nitro-*NNO*-azoxy: Synthesis and Characterization

884 WANG Bo-zhou, ZHAI Lian-jie, LIAN Peng,
LI Ya-nan, LI Hui, HUO Huan, LI Xiang-zhi

A Novel Synthesis of 3,3'-Bis(fluorodinitromethyl) difurazanyl ether(FOF-13)