

《含能材料》2008 年(第 16 卷)总目次

第 1 期

研究论文

GI-920 炸药的热分解动力学研究	高大元, 何松伟, 沈永兴, 周建华	(1)
纳米铝粉在环氧丙烷快速反应中的热学行为研究	炎正馨, 郭长立, 常琳, 郭明环, 胡栋	(5)
三硝基均苯三酚钾盐的热力学研究(英)	李玲慧, 张同来, 张建国, 孙翠娜	(9)
湿度对单基发射药热分解行为的影响	张人何, 路桂娥, 刘昆仑, 邓汉波, 陈汉卿	(12)
DNTF 的非等温结晶研究(Ⅱ)在 RDX 中的结晶动力学	周文静, 刘子如, 张阜, 康冰, 陆洪林	(16)
微烟 NEPE 推进剂及其粘合剂胶片的动态力学性能研究(英)	张伟, 李旭利, 刘子如, 樊学忠	(19)
炸药浇铸成型过程超声监测研究	田勇, 刘石, 周红萍, 张伟斌, 杨占锋, 罗观	(23)
超文化聚酯/丁羟聚氨酯互穿聚合物网络的形态和力学性能	宋雪晶, 罗运军, 柴春鹏, 李国平	(26)
Kawakita 模型在含能晶体颗粒压制中的应用研究	谭武军, 李明, 黄辉	(29)
基于修正时间硬化理论的 PBX 蠕变模型	唐维, 李明, 温茂萍, 张丘, 赵小东	(34)
TATB 基高聚物粘结炸药残余应力的测试和消除研究	周红萍, 李敬明, 李丽, 韦兴文, 张伟斌, 温茂萍	(37)
魔芋葡甘聚糖含能材料的制备及表征	张正光, 罗学刚	(41)
Keto-RDX 的合成及性能计算(英)	Arash Shokrollahi, Abbas Zali, Hamid Reza Pouretedal, Mohammad Hossein Keshavarz	(44)
4-氨基-5-硝基-1,2,3-三唑(ANTZ)合成与表征	霍欢, 王伯周, 周诚, 熊存良	(49)
二氨基偶氮二氧化呋咱的合成及表征	雷晴, 何金选, 郭滢媛, 曹一林	(53)
海因/三嗪类复合键合剂包覆黑索今的研究	李江存, 焦清介, 任慧, 王丽霞, 赵伟栋	(56)
含包覆 ϵ -HNIW 的 NEPE 推进剂的力学性能	孟征, 欧育湘	(60)
磷酸二氢钾催化下甲苯的选择性硝化	刘丽荣, 吕春绪, 张晓波	(63)
三种方法研究 ADN 与几种粘合剂的相容性	岳璞, 衡淑云, 韩芳, 张腊莹, 何少蓉	(66)
杂质对混合硝酸酯及其含能粘合剂安定性的影响	王中合, 屈小红, 乔晓鹏, 张小军	(70)
硝酸肼晶体结构研究	夏云霞, 孙杰, 毛治华, 洪洲, 康彬	(73)
聚合物对硝酸铵相转变的影响	叶方青, 曾贵玉, 吕春绪, 黄辉	(77)
硝酸碳酰肼类含能配合物比热容的研究	乔小晶, 樊帆, 石邵美, 孙翠娜	(80)
单基微气孔球扁药的静电感度研究	蔺向阳, 段红珍, 潘仁明, 殷继刚	(83)
炸药感度测试兰利法与升降法比较研究	袁俊明, 张庆明, 刘彦	(86)
均三硝基苯类化合物撞击感度与电性拓扑指数的 QSPR 研究	王睿, 蒋军成, 潘勇, 曹洪印	(90)
新一代高能固体推进剂的能量特性计算研究	刘晶如, 罗运军, 杨寅	(94)
钨射弹引爆带盖板炸药阈值工程计算方法	傅华, 谭多望, 李涛, 李金河	(100)
芳香族化合物绿色硝化反应研究进展	方东, 施群荣, 巍凯, 刘祖亮, 吕春绪	(103)
冲击波感度与撞击感度预测的研究进展(英)		
... Mohammad Hossein Keshavarz, Arash Shokrollahi, Karim Esmaipoor, Abbas Zali, Hamid Reza Hafizi, Jamshid Azarniamehraban		(113)

读者·作者·编者

《含能材料》2007 年第 4 期被 EI 收录论文(VIII) 2008 年《发射药、烟火剂、火工品研究论文专辑》征稿启事(VIII)

第 2 期

研究论文

碱性功能化离子液体催化 Mannich 反应研究	巩凯, 方东, 施群荣, 刘祖亮	(121)
--------------------------	------------------	---------

含能粘合剂聚丙烯酸偕二硝基丙酯的合成及性能	张公正, 王芳, 房永曦, 王鹏, 李海华	(125)
草酰基二茂铁衍生物合成与结构表征	唐孝明, 李战雄, 唐松青, 陈国强	(128)
含能气体射流在液体工质中扩展的二维模型及数值模拟	齐丽婷, 余永刚, 彭志国, 周彦煌	(131)
超细 HNS 的制备和性能研究	雷波, 史春红, 马友林, 吕巧莉, 徐栓劳	(138)
亚微米 HMX/FPM ₂₆₀₂ 超细混合炸药的制备工艺研究	王保国, 陈亚芳, 张景林	(142)
HNS 的临界厚度测试研究	王建华, 刘玉存, 刘登程, 于雁武, 郭峰波	(146)
球形化 HMX 颗粒的晶体品质与性能	徐瑞娟, 康彬, 黄辉, 李金山, 姜燕, 何芳	(149)
TATBIW 与 TADBIW 的氢解反应特性	韩卫荣, 欧育湘, 张雪红, 黄兴, 牟微, 高岩磊	(153)
化学放热系统环境温度和热爆炸延滞期的关系	王鹏, 杜志明	(156)
考虑后燃烧效应的 TNT 空气中爆炸的数值模拟	辛春亮, 徐更光, 刘科种, 秦健	(160)
JO-9159/ECX 复合装药的冲击波感度研究	韩勇, 鲁斌, 蒋志海, 卢校军	(164)
应用神经网络预测炸药撞击感度	王国栋, 刘玉存	(167)
高能炸药水中爆炸能量输出特性数值分析	张志江, 徐更光	(171)
基于 Fisher 准则函数的凝聚相炸药爆炸火光图像识别研究	易建坤, 吴腾芳, 彭建雄, 瞿国锋	(175)
4-氨基-1,2,4-三唑-5-酮的分子结构和晶体能带结构的理论研究	严彪, 马海霞, 宋纪蓉	(180)
低压热处理对 PBX 炸药件密度及内部质量的影响	兰琼, 韩超, 雍炼, 张明	(185)
HMX 钢模压制的微观结构演变研究	梁华琼, 周旭辉, 唐常良, 杨永林	(188)
HTPB 推进剂组分溶度参数的分子模拟研究	杨月诚, 焦东明, 强洪夫, 王广	(191)
热塑性聚氨酯弹性体对高固体含量改性双基推进剂力学性能的影响	姚楠, 王江宁, 刘子如, 张腊莹	(196)
纤维对无壳弹发射药感度和自燃的影响	马忠亮, 田苏明, 刘幼平, 肖忠良	(201)
B/KNO ₃ 药柱燃烧速度的初步研究	祝明水, 何碧, 蒋明, 朱和平	(204)
氧平衡对含 KClO ₄ /NH ₄ NO ₃ 复合氧化剂气体发生剂燃烧速率的影响	金韶华, 王伟, 松全才	(207)
基于发火可靠度裕度的生产方风险分析	董海平, 穆慧娜	(209)
机械类火工品感度变差系数统计分析	穆慧娜, 焦清介, 温玉全	(212)
火工品双边可靠性下限近似计算方法	洪东跑, 温玉全	(216)
铝粉粒径对闪光剂辐射强度的影响	霸书红, 焦清介, 任慧	(219)
Zr-O ₂ 闪光灯辐射特性研究	叶迎华, 沈瑞琪, 项汛, 胡艳	(222)
量气法研究 ADN 与 (NC + NG) 的相互作用	何少蓉, 张林军, 衡淑云, 刘子如	(225)
军用纯度标准物质 NTO 的化学法定值研究	温晓燕, 梁忆, 陈智群, 潘清, 周诚	(229)
固体推进剂贮存老化研究进展	张兴高, 张炜, 朱慧, 王春华	(232)

研究快报

3,3'-二(3-氨基呋咱基氧化呋咱-4-基)-4,4'-偶氮呋咱的合成与表征	王军	(238)
PECH 和 GAP 的玻璃化转变温度研究(英)	宋晓庆, 周集义, 王文浩, 王建伟, 白森虎	(239)
改性聚环氧琥珀酸在反渗透处理炸药废水中的应用研究	张素芳, 舒远杰, 唐绍明, 王晓川, 刘学涌	(240)

读者·作者·编者

会议信息(一)(124) 2008 年钝感弹药学术研讨会召开(184) 会议信息(二)(200) 《含能材料》2007 年第 5 期被 EI 收录论文(IX)		
2008 年《发射药、烟火剂、火工品研究论文专辑》征稿启事(IX) 《含能材料》征稿启事(X)		

第 3 期

研究论文

Al-HMX 混合炸药爆炸场温度的实验研究	李媛媛, 王建灵, 徐洪涛	(241)
含 DAAzF 的 HMX 基低感高能炸药研究	李玉斌, 黄辉, 李金山, 李洪珍	(244)
动压作用下敏化剂对乳化炸药破乳程度的影响	吴红波, 颜事龙, 刘锋	(247)
4,6-双(5-氨基-3-硝基-1,2,4-三唑-1-基)-5-硝基嘧啶(DANTNP)合成工艺改进	贾思媛, 王锡杰, 王伯周, 张海昊, 熊存良	(251)
超细 CL-20 晶形控制技术研究	杨利, 王绍宗, 赵鹏娟, 张同来	(254)

高纯纳米HNS的制备与表征	王晶禹, 黄浩, 王培勇, 陈健, 刘红妮	(258)
装药车制乳化炸药的试验研究	叶图强, 郑旭炳, 汪旭光, 吴春平	(262)
DNTF、TNT和DNTF-TNT低共熔物在RDX中的结晶动力学研究	周文静, 张皋, 刘子如	(267)
含能材料电流点火感度的概率分布研究	王鹏, 杜志明	(272)
硝胺类烟火输出药的设计与性能研究	蒋新广, 李国新, 王志新, 劳允亮	(277)
氧桥多呋咱类化合物爆轰性能预估	葛忠学, 来蔚鹏, 廉鹏, 王伯周, 薛永强	(280)
PETN和RDX在无起爆药雷管中作为激发药的对比性研究	马宏昊, 沈兆武, 陈文川, 周光辉, 方锦雄	(285)
非线性等转化率的微、积分法及其在含能材料物理化学研究中的应用V. 基于Kooij公式的理论和数值方法	胡荣祖, 赵凤起, 高红旭, 张海, 赵宏安, 马海霞	(290)
NATO角和飞板速度对平板装药干扰射流频率的影响	李如江, 沈兆武	(295)
含改性氯酸钾烟火药剂的安全性研究	钱新明, 王鹏飞	(298)
端羟基聚丁二烯与 ϵ -己内酯新型嵌段共聚物的合成与表征	柴春鹏, 罗运军, 郭素芳, 李国平, 陈鹤	(301)
聚乙二醇的非等温结晶动力学研究	党永战, 赵凤起, 高红旭, 胡荣祖, 康冰	(305)
四硝基并哌嗪(TNAD)与推进剂组分相容性的DSC法评估	严启龙, 李笑江, 廖林泉, 张晓宏, 刘子如	(309)
含CL-20的NEPE推进剂高压热分解特征量与燃速的关联	丁黎, 赵凤起, 刘子如, 张腊莹, 衡淑云	(315)
铝粉含量和粒度对NEPE推进剂燃速影响的模型化	李苗苗, 宋洪昌, 汪越, 程志鹏, 郭效德	(319)
一种改性HTPB型聚氨酯的力学性能研究	孙捷, 郑元锁, 高国新, 王蕾, 谭溢波	(323)
泄爆导管对容器内粉尘燃爆泄放特性的影响	喻健良, 吕明宇	(327)
介孔分子筛负载SO ₃ H基区域选择性催化硝化邻二甲苯	奚立民	(333)
氟两相体系与甲苯硝化反应	李瑞军, 史鸿鑫, 朱建萍, 刘秋萍, 许建帼	(337)
硅钨酸催化下甲苯的选择性硝化	刘丽荣, 吕春绪, 张晓波	(341)
红外热成像技术在云团爆炸测温中的应用	李秀丽, 惠君明, 解立峰	(344)
HTPE推进剂研究进展	宋晓庆, 周集义, 王文浩, 李新豪	(349)
MeNQ的合成进展及其在熔铸炸药中的应用	张光全, 董海山	(353)
哌嗪化学的研究 第I报 哌嗪系列高能量密度化合物合成研究进展	刘玉珠, 鱼志钰, 鱼江泳	(356)

读者·作者·编者

2008年《发射药、烟火剂、火工品研究论文专辑》征稿启事(261) 会议信息(一)(276) 会议信息(二)(284) 日本第三届国际含能材料及应用研讨会召开(289) 11th International Seminar "New Trends in Research of Energetic Materials" 在捷克Pardubice大学召开(314) 中国工程物理研究院化工材料研究所检测技术研究室(后插)

第4期

研究论文

关于从不同恒速降温条件下的DSC曲线峰温计算结晶/凝固反应动力学参数的一点注释	胡荣祖, 赵凤起, 高红旭, 赵宏安	(361)
RDX-CMDB推进剂的催化热分解 I. 高压热分解与燃速相关性研究	谢明召, 刘子如, 衡淑云, 王晗, 张腊莹, 赵凤起	(364)
四氢双环戊二烯硝基衍生物的热力学性质与爆轰性能的理论研究	宋婧, 李春迎, 杨建明, 吕剑, 王文亮	(368)
三硝基均苯三酚一铵盐的合成、晶体结构、热分析及感度性能研究(英)	胡晓春, 张同来, 刘振华, 张建国, 乔小晶, 杨利	(376)
IR法研究两种武器的失效机理	陈智群, 王明, 王克勇, 徐敏	(383)
一种新型柔性相变材料薄膜的制备及性能	邱勇, 周伯昭, 何颖波, 张凯	(387)
溶胶-凝胶法制备纳米RDX/RF薄膜技术研究	郁卫飞, 黄辉, 张娟, 夏云霞, 王平, 李金山, 聂福德	(391)
支化聚叠氮缩水甘油醚硝酸酯的制备	王平, 郁卫飞, 刘春	(395)
酸性离子液体存在下甲苯的硝酸硝化(Ⅱ)	齐秀芳, 程广斌, 吕春绪	(398)
纳米TiO ₂ 光催化降解梯恩梯和奥克托今的研究	李娴, 霍冀川, 叶旭	(401)

超临界水氧化 DNT 废水动力学及影响因素研究	赵保国, 刘玉存, 耿鹏印, 罗文浩	(406)
云爆剂爆炸/冲击波参数研究	李秀丽, 惠君明, 王伯良	(410)
起爆方式对聚能射流影响的数值仿真研究	张会锁, 赵捍东, 黄延平, 石兴玉, 张燕欣	(415)
含 TNT 注装混合炸药爆轰产物电导率实验研究	金兆鑫, 焦清介, 陈曦, 曾亮	(420)
多孔药型罩聚能射流低炸高大穿深机理研究	李如江, 沈兆武, 刘天生	(424)
超细钝感 HMX 小尺寸沟槽装药爆轰波传播临界特性研究	李晓刚, 焦清介, 温玉全	(428)
枪击试验中不同尺寸 PBX-2 炸药响应规律研究	代晓淦, 申春迎, 吕子剑, 向永	(432)
含铝炸药 Miller 能量释放模型的应用	辛春亮, 徐更光, 刘科种, 秦健	(436)
RDX 粒径和表面能对 HTPB 推进剂力学性能的影响	杜美娜, 罗远军	(441)
叠氮纤维素结构和溶度参数的分子模拟	黄锐, 姚维尚, 谭惠民	(446)
三氨基胍系列含能化合物的研究进展	敖国军, 刘振华, 张同来, 杨利, 张建国	(450)
镁铝金属粉对含硼富燃推进剂燃烧性能及硼氧化效率的影响	吴婉娥, 毛根旺, 鲁军, 郭而铃, 胡健	(458)
NEPE 推进剂老化性能的动力学表征	刘新国, 王广, 强洪夫, 杨月诚	(462)
烟火药用木炭的性能表征	崔庆忠, 焦清介, 任慧, 杨荣杰	(465)
利用 UDMH 合成胺基酰亚胺化合物的研究进展	李正莉, 张有智, 王煊军, 樊瑞君	(469)
常规弹药弹道修正用推冲器的国内外研究概况	杨庆, 汪佩兰, 金建峰	(474)

研究快报

一种 PYX 制备新技术	王军, 黄靖伦, 廖龙渝, 李洪珍, 聂福德, 黄黎明, 李金山	(480)
--------------	----------------------------------	-------

读者·作者·编者

《含能材料》2007 年第 6 期被 EI 收录论文(VII)	《含能材料》2008 年第 1 期被 EI 收录论文(VIII)	评自敏化理论最新专著——《膨化硝铵炸药自敏化理论》(363)	更正一(382)	更正二(394)	推荐一本新书——《高能量密度材料的理论设计》(435)	Held Manfred 博士(前插)
聚苯硫醚(PPS)复合材料介绍(后插)						

第 5 期

研究论文

激光与含能化合物相互作用机理研究	盛涤伦, 朱雅红, 陈利魁, 杨斌, 王燕兰	(481)
Zr/KClO ₄ 激光点火延迟时间与装药密度的关系	严楠, 曾雅琴, 傅宏	(487)
三基发射药 M32 和 SD 的热安全性	赵凤起, 胡荣祖, 高红旭	(490)
高能发射药有效安定剂消耗反应动力学研究	衡淑云, 韩芳, 周继华, 刘少武, 谭惠民, 胡玲	(494)
高聚物理论估算溶塑火药拉伸强度的应用研究	堵平, 何卫东, 王泽山	(498)
硼系延期药燃烧特性分析	武双章, 沈瑞琪, 叶迎华, 李石磊	(502)
纳米 Fe ₂ O ₃ 对钨系延期药燃烧性能的影响	黄寅生, 李锦涛, 崔晨晨, 刘杰, 瞿小为, 段进军	(507)
超细 HNS 颗粒状态研究	王平, 郁卫飞, 张娟, 刘春	(511)
超细 A ₅ 传爆药的制备及表征	梁逸群, 张景林, 姜夏冰, 王保国	(515)
超细 BNCP 比表面积对其性能的影响	郁卫飞, 陈娅, 聂福德, 史永发, 曾贵玉, 王平, 张启荣	(519)
显微红外光谱法测定 EI 发射药中钝感剂扩散系数	潘清, 王琼林, 于慧芳, 栾洁玉	(521)
环境湿度对某新型推进剂热分解动力学的影响	张军, 路桂娥, 江劲勇	(525)
火药燃烧气体产物检测方法研究	胡岚, 张皋, 王婧娜, 高朗华	(527)
可见光分光光度法测定 PBX 传爆药中 HMX 含量	梁逸群, 张景林, 姜夏冰	(531)
基于 Bootstrap 方法的火工品可靠性评估	温玉全, 洪东跑	(535)
某火工品贮存老化效应分析研究	涂小珍, 李敬明, 韦兴文, 周阳, 王培, 李伟	(539)
薄膜桥火工品的制备与性能研究	王广海, 李国新, 阿苏娜	(543)
桥丝式电火工品射频感度试验研究	陈明华, 张国安, 陆瑞卿, 邢立平	(547)
特定条件下的可靠性试验信息熵	蔡瑞娇, 董海平	(550)
火工品可靠性计量-计数评估方法的有效性研究	董海平, 蔡瑞娇, 穆慧娜	(553)
基于序约束的火工品可靠性试验数据分析	洪东跑, 赵宇, 温玉全	(556)

灼热桥丝式电火工品发火可靠性设计方法	董海平,蔡瑞娇,穆慧娜,曹建华	(560)
半导体桥电爆过程的能量转换测量与计算	张文超,叶家海,秦志春,周彬,田桂蓉,徐振相	(564)
吡唑类化合物结构与性能关系的理论研究	殷明,舒远杰,熊鹰,罗世凯,龙新平,朱祖良,杜军良	(567)
四氮烯异构体的密度泛函理论研究(英)	崔燕,张同来,张建国,杨利	(572)
二硝酰胺胍(GDN)的晶体结构和热行为(英)	徐抗震,赵凤起,丁黎,王晗,李梦,常春然,马海霞,宋纪蓉	(577)
偶氮四唑二胍的合成优化与性能表征	王义惠,杜志明,何春林,丛晓民,王宏社,王春迎	(581)
四氮烯起爆药的电喷雾电离质谱裂解研究	刘俊伟,张建国,张丹丹,张同来,杨利	(585)
碳纳米材料红外图像遮蔽特性研究	王红霞,刘代志,宋子彪	(588)
微粉石墨在燃烧型抗红外烟幕中的应用	霸书红,王乃岩	(592)
碳纤维织物铜银复合镀覆及其3毫米波RCS特性	侯伟,潘功配,关华,朱晨光	(595)
纳米镍粉对1.06 μm和10.6 μm激光的消光性能研究(英)	刘香翠,郑卫平	(599)
具有脉动燃烧效应的烟火药水中燃烧声频特性	欧阳的华,潘功配,关华,侯伟,范磊,杜雪峰	(603)
聚乙烯醇缩丁醛包覆氯酸钾及其安全性研究	钱新明,王鹏飞	(606)
新型含能粘合剂羟烷基纤维素醚硝酸酯分子设计及合成	邵自强,张有德,杨斐霏,吕少一,王继勋	(609)
GAP基热塑性弹性体的合成及表征	菅晓霞,肖乐勤,左海丽,周伟良,徐复铭	(614)
Miniature Detonating Cord (MDC) for Breaking Organic Glass Plates	Bogdan ZYGMUNT	(618)
超细钝感HMX小尺寸拐角装药爆轰延迟时间研究	李晓刚,焦清介,温玉全	(621)
液体推进剂液滴点火特性的实验研究	余永刚,李明,周彦煌,陆欣	(625)
底排点火具在高降压速率下瞬态燃烧特性的实验研究	陆春义,周彦煌,余永刚	(629)
低敏感高能发射药等离子体点火研究动态	肖正刚,应三九,周伟良,徐复铭	(633)
降低药剂SCB点火能量的研究进展	徐禄,张琳,冯红艳,刘丽娟,朱顺官	(639)
读者·作者·编者		

《固体火箭技术》征订启事(486) 《爆破》杂志征订启事(514) 欢迎订阅2009年《聚氨酯工业》(518) 更正(563) 《含能材料》彩页(后插)

第6期

研究论文

由原子化反应法求算高能化合物的生成热	邱丽美,贡雪东,郑剑,肖鹤鸣	(647)
多硝基芳烃的电火花感度和热安定性关系(英)	Svatopluk Zeman	(652)
TATB基PBX介观结构的耗散粒子动力学模拟	张艳丽,姬广富,龚自正,李晓凤,崔红玲	(659)
Mn(CH ₂) ₂ (N ₃) ₂ 配合物的合成、晶体结构与热分解研究(英)	刘振华,张同来,张建国,杨利,张进,臧艳	(663)
四乙酰基六氮杂异伍兹烷的胺醛缩合反应	孙成辉,赵信岐	(669)
2,6-二氨基-3,5-二硝基吡啶-1-氧化物的合成与性能	成健,姚其正,周新利,杜扬,方东,刘祖亮	(672)
1-氨基-1,2,3-三唑的合成	施宏刚,李生华,李玉川,李小童,庞思平	(676)
含氟介质中乌洛托品硝解制RDX研究	易文斌,蔡春	(679)
端羟基聚环氧丙烷与叠氮聚醚的后处理研究	卢先明,甘孝贤,邢颖,张志刚,韩涛	(682)
LLM-105重结晶与性能研究	李海波,程碧波,刘世俊,聂福德,李金山	(686)
ATP-28在浇注固化炸药中的应用探索	高立龙,席鹏	(689)
PBX药柱温升过程中的性能变化研究	兰琼,鲁建英,张明,雍炼	(693)
制备工艺对HMX机械感度和热分解特性的影响	宋小兰,安崇伟,郭效德,刘宏英,张景林,李凤生	(698)
PBX部件机械加工过程中的夹持变形预测	唐维,李明,张丘,黄交虎,赵永忠,刘维,赵小东	(703)
RDX混合炸药的摩擦静电起电性能测定与分析	陆明,赵省向,陈晶	(708)
聚氨酯黏合剂包覆球形ADN的性能研究	胥会祥,廖林泉,刘愆,李勇宏,冉秀伦,赵凤起	(712)
RDX-CMDB推进剂的催化热分解Ⅱ.分解气体产物和催化作用机理	谢明召,衡淑云,刘子如,王晗,王晓红,赵凤起	(716)
铝粉含量及粒径对CMDB推进剂性能的影响	陈雪莉,王瑛,王宏,孙美	(721)
富燃料推进剂燃烧热测试中防烧蚀材料的选取	王英红,潘匡志,孙志华,张晓宏	(724)
多孔硅/高氯酸钠复合材料合成与爆炸特性研究	黎学明,胡欣,黄辉,郁卫飞,聂福德	(727)

准球形 EFP 成型影响因素的数值模拟	王树有, 蒋建伟, 门建兵	(731)
一种爆炸硬化用高聚物粘结塑性炸药及应用研究	安二峰, 陈鹏万, 杨军	(734)
铝粉含量对乳化炸药性能影响	张虎, 谢兴华, 郭子如, 万向东	(738)
数值模拟研究分叉巷道中冲击波传播规律	覃彬, 张奇, 向聪, 王登贵, 李伟	(741)
CdS/Gu 纳米光催化剂降解废水中的 HMX 和 RDX 试验研究(英)		
Hamid Reza Pouretedal, Mohammad Hossien Keshavarz, Mohammad Hasan Yosefi, Arash Shokrollahi, Abbas Zali	(745)	
HMX 的 $\beta \rightarrow \delta$ 晶型转变研究进展	薛超, 孙杰, 宋功保, 康彬, 夏云霞	(753)
环磷腈类高能量密度化合物研究 VI. 环磷腈化合物及其在含能材料中的应用	郑慧慧, 张建国, 张同来, 杨利, 冯丽娜	(758)
微反应器在强放热反应中的应用	宋红燕, 王鹏, 孟文君, 韩骏奇, 孟子晖, 周智明	(762)
研究快报		
一种表征芳香族炸药撞击感度的简单方法	杜军良, 舒远杰, 周阳, 般明, 龙新平, 朱祖良	(766)
微米级炸药晶体缺陷的微距工业 CT 试验研究(英)	张伟斌, 戴斌, 田勇, 黄辉, 杨存丰, 宗和厚, 李洪珍	(767)
读者·作者·编者		
《含能材料》2008 年第 2 期被 EI 收录论文(VII) 向审稿人致谢(· 6 ·) 向作者致谢(662) 《含能材料》征订启事(692)		
《化学推进剂与高分子材料》征订启事(752) 《含能材料》征稿启事(768)		
2008 年(第 16 卷)总目次		(· 1 ·)

◆◆◆◆◆◆◆◆
◆ 读者·作者·编者 ◆
◆◆◆◆◆◆◆◆

向审稿人致谢

2008 年, 在各级领导的关心和各位同行专家的帮助下, 本刊得以顺利出版发行, 为此, 编辑部特向在 2007 年 12 月 1 日 ~ 2008 年 12 月 25 日为本刊审阅稿件的各位审稿人(以汉语拼音为序)致谢!

安立超 蔡春 蔡瑞娇 曹端林 曹雄 陈光文 陈惠武 陈朗 陈鲁英 陈鹏万 陈网桦 陈兆旭 陈智群
 成一 丛洪涛 丁雁生 董海山 杜志明 杜宗罡 段卓平 樊学忠 樊耀峰 冯增国 符全军 甘孝贤 高大元
 高胜利 葛红光 葛忠学 贡雪东 古忠云 顾文彬 顾晓辉 郭长铭 郭子如 何碧 何卫东 衡淑云 洪滔
 胡长文 胡岚 胡荣祖 胡润芝 胡晓棉 黄亨建 黄洪勇 黄明 黄毅民 黄寅生 黄勇 黄振亚 黄正祥
 姬广富 蒋建伟 蒋树君 劳允亮 李保国 李葆萱 李长福 李海波 李洪珍 李加荣 李金山 李敬明 李上文
 李尚斌 李疎粉 李战雄 栗保明 刘庚冉 刘学涌 刘玉存 刘子如 刘祖亮 卢斌 卢芳云 鲁国林 陆明
 吕春绪 罗景润 罗运军 马海霞 马中亮 聂福德 欧育湘 潘功配 潘仁明 庞爱民 庞思平 裴明敬 彭金华
 彭汝芳 彭新华 钱立新 秦英孝 沈瑞琪 沈兆武 盛涤伦 舒远杰 松全才 宋华杰 宋纪蓉 宋锦泉 宋浦
 孙承纬 孙杰 谭迎新 唐承志 唐光诗 田德余 田勇 童志权 万代红 汪亮 汪旭光 王保国 王伯周
 王成 王宏 王晶禹 王军 王连军 王乃兴 王宁飞 王平 王亲会 王翔 王新德 王玄玉 王彦平
 王英红 王占江 王志军 魏光辉 魏建国 魏运洋 温玉全 文尚刚 吴文辉 吴耀国 奚立民 肖鹤鸣 肖金武
 肖正刚 谢高第 熊鹰 严莲荷 严楠 阳世清 杨家振 杨荣杰 杨毅 杨振英 姚维尚 叶志文 易文斌
 于亚伦 禹天福 郁卫飞 曾贵玉 张朝阳 张光友 张建国 张明 张明安 张奇 张蕊 张同来 张炜
 张先锋 张跃军 赵锋 赵凤起 赵海泉 赵君科 赵瑞先 赵省向 赵信岐 周彬 周集义 周霖 周美林
 周申范 周显明 周新利 周阳 周遵宁 朱春华 朱家元 朱顺官

《含能材料》编辑部
二〇〇八年十二月

ANNUAL CUMULATIVE CONTENTS OF CHINESE JOURNAL OF ENERGETIC MATERIALS (Vol. 16,2008)

No. 1

Thermal Decomposition Kinetics of GI-920 Explosive	GAO Da-yuan, HE Song-wei, SHEN Yong-xing, ZHOU Jian-hua (1)
Thermal Behaviors of Aluminum Nano-Particles Fast Reaction with Propylene Oxide	YAN Zheng-xin, GUO Chang-li, CHANG Lin, GUO Ming-huan, HU Dong (5)
Thermodynamic Properties of Potassium Salts of Trinitrophloroglucinol	LI Ling-hui, ZHANG Tong-lai, ZHANG Jian-guo, SUN Cui-na (9)
Influence of Humidity on Thermal Decomposition Behavior of Single-base Propellant	ZHANG Ren-he, LU Gui-e, LIU Kun-lun, DENG Han-bo, CHEN Han-qing (12)
Behavior of Non-isothermal Crystallization of DNTF(II): Crystallization Kinetics in RDX	ZHOU Wen-jing, LIU Zi-ru, ZHANG Gao, KANG Bing, LU Hong-lin (16)
Dynamic Mechanical Properties of NEPE Propellant with Minimum Signature and its Binder Film	ZHANG Wei, LI Xu-li, LIU Zi-ru, FAN Xue-zhong (19)
Ultrasonic Monitoring in Explosive Cast Process	TIAN Yong, LIU Shi, ZHOU Hong-ping, ZHANG Wei-bin, YANG Zhan-feng, LUO Guan (23)
Morphology and Mechanical Properties of Hyperbranched Polyester/HTPB Polyester IPN	SONG Xue-jing, LUO Yun-jun, CHAI Cun-peng, LI Guo-ping (26)
Application of Kawakita Equation in Compression of Energetic Crystalline Particles	TAN Wu-jun, LI Ming, HUANG Hui (29)
PBX Creep Model Based on Modified Time Hardening Theory	TANG Wei, LI Ming, WEN Mao-ping, ZHANG Qiu, ZHAO Xiao-dong (34)
Testing and Relieving of Residual Stress for Polymer Bonded Explosive Based on TATB	ZHOU Hong-ping, LI Jing-ming, LI Li, WEI Xing-wen, ZHANG Wei-bin, WEN Mao-ping (37)
Synthesis and Characterization of Energetic Konjac Glucomannan	ZHANG Zheng-guang, LUO Xue-gang (41)
Synthesis of Keto-RDX and its Characterizations Calculation	Arash Shokrollahi, Abbas Zali, Hamid Reza Pouretedal, Mohammad Hossein Keshavarz (44)
Synthesis and Characterization of 4-Amino-5-nitro-1,2,3-trazole	HUO Huan, WANG Bo-zhou, ZHOU Cheng, XIONG Cun-liang (49)
Synthesis and Characterization of 3,3'-Diamino-4,4'-azofuroxan	LEI Qing, HE Jin-xuan, GUO Ying-yuan, CAO Yi-lin (53)
RDX Coated with Hyantoin/Triazines Composite Bonding Agent	LI Jiang-cun, JIAO Qing-jie, REN Hui, WANG Li-xia, ZHAO Wei-dong (56)
Mechanical Properties of NEPE Propellant Containing Two Coated ϵ -HNIW	MENG Zheng, OU Yu-xiang (60)
Selective Nitration of Toluene in Presence of Potassium Dihydrogen Phosphate	LIU Li-rong, Lü Chun-xu, ZHANG Xiao-bo (63)
Compatibilities of ADN with Five Kinds of Binders	YUE Pu, HENG Shu-yun, HAN Fang, ZHANG La-ying, HE Shao-rong (66)
Influence of Impurity on Stability of Blend Nitrate Ester and Energetic Binder	WANG Zhong-he, QU Xiao-hong, QIAO Xiao-peng, ZHANG Xiao-jun (70)
Crystal Structure of Hydrazine Nitrate	XIA Yun-xia, SUN Jie, MAO Zhi-hua, HONG Zhou, KANG Bin (73)
Effects of Polymers on Phase Transition of Ammonium Nitrate	YE Fang-qing, ZENG Gui-yu, Lü Chun-xu, HUANG Hui (77)
Specific Heat Capacity of Carbohydrazide Nitric Acid Energetic Coordination Compounds	QIAO Xiao-jing, FAN Fan, SHI Shao-me, SUN Cui-na (80)
Electrostatic Spark Sensitivity of Single Base Oblate Propellant with Micropores	LIN Xiang-yang, DUAN Hong-zhen, PAN Ren-ming, YIN Ji-gang (83)
Comparison Study on Langlie Method and Up-and-down Method for Sensitivity Test of Explosive	YUAN Jun-ming, ZHANG Qing-ming, LIU Yan (86)
QSPR Study of Correlation between Impact Sensitivity of <i>m</i> -Nitroaromatics and Electropotential State Indices	WANG Rui, JIANG Jun-cheng, PAN Yong, CAO Hong-yin (90)
Energetic Characteristics Calculation of a New Generation of High Energy Solid Propellant	LIU Jing-ru, LUO Yun-jun, YANG Yin (94)
Engineering Calculation on Threshold Velocity of Covered Explosives Impacted by Tungsten Projectile	FU Hua, TAN Duo-wang, LI Tao, LI Jin-he (100)
Research Progress of Clean Nitration of Aromatic Compounds	FANG Dong, SHI Qun-rong, GONG Kai, LIU Zu-liang, Lü Chun-xu (103)
Recent Developments in Predicting Impact and Shock Sensitivities of Energetic Materials	Mohammad Hossein Keshavarz, Arash Shokrollahi, Karim Esmailpoor, Abbas Zali, Hamid Reza Hafizi, Jamshid Azarniamehraban (113)

No. 2

Mannich Reaction Catalyzed by Basic Functionalized Ionic Liquid	GONG Kai, FANG Dong, SHI Qun-rong, LIU Zu-liang (121)
---	---

Synthesis and Characterization of Energetic Binder Poly(2,2-dinitropropyl acrylate)	ZHANG Gong-zheng, WANG Fang, FANG Yong-xi, WANG Peng, LI Hai-hua (125)
Synthesis and Characterization of Oxalylferrocene Derivatives	TANG Xiao-ming, LI Zhan-xiong, TANG Song-qing, CHEN Guo-qiang (128)
A 2-D Model of Energetic Gas Jet Expansion Process in Liquid and Numerical Simulation	QI Li-ting, YU Yong-gang, PENG Zhi-guo, ZHOU Yan-huang (131)
Preparation and Characterization of Ultrafine HNS	LEI Bo, SHI Chun-hong, MA You-lin, LU Qiao-li, XU Shuan-lao (138)
Preparation Technology of Sub-micron HMX/FPM ₂₆₀₂ Ultra-fine Composite Explosive	WANG Bao-guo, CHEN Ya-fang, ZHANG Jing-lin (142)
Critical Thickness of HNS	WANG Jian-hua, LIU Yu-cun, LIU Deng-cheng, YU Yan-wu, GUO Feng-bo (146)
Crystal Quality and Properties of Spherical HMX	XU Rui-juan, KANG Bin, HUANG Hui, LI Jin-shan, JIANG Yan, HE Fang (149)
Hydrogenolysis of Triacetyltribenzylhexaazaisowurtzitane and Tetraacetyltribenzylhexaazaisowurtzitane	HAN Wei-rong, OU Yu-xiang, ZHANG Xue-hong, HUANG Xing, MOU Wei, GAO Yan-lei (153)
Relationship between Ambient Temperature and Time to Ignition of Exothermic System	WANG Peng, DU Zhi-ming (156)
Numerical Simulation of TNT Explosion with Post-detonation Burning Effect in Air	XIN Chun-liang, XU Geng-guang, LIU Ke-zhong, QIN Jian (160)
Shock Sensitivity of JO-9159/ECX Composite Charge	HAN Yong, LU Bin, JIANG Zhi-hai, LU Xiao-jun (164)
Predicting the Impact Sensitivity of Explosives by Artificial Neural Network	WANG Guo-dong, LIU Yu-cun (167)
Numerical Analysis on Energy Output of Underwater Explosion for High Energetic Explosives	ZHANG Zhi-jiang, XU Geng-guang (171)
Pattern Recognition for Images of Explosion Fireball of Condensed Explosives Based on Fisher Criterion	YI Jian-kun, WU Teng-fang, PENG Jian-xiong, ZHAI Guo-feng (175)
Theoretical Study on Molecular Structure and Crystal Band Structure of 4-Amino-1,2,4-triazol-5-one	YAN Biao, MA Hai-xia, SONG Ji-rong (180)
Effects of Low-pressure Heat Treatment on Charge Density and Inner Quality of PBX	LAN Qiong, HAN Chao, YONG Lian, ZHANG Ming (185)
Microstructural Evolution of HMX During Pressing	LIANG Hua-qiong, ZHOU Xu-hui, TANG Chang-liang, YANG Yong-lin (188)
Molecular Simulation of Solubility Parameter for HTPB Solid Propellants	YANG Yue-cheng, JIAO Dong-ming, QIANG Hong-fu, WANG Guang (191)
Effect of Thermoplastic Polyurethane Elastomer on Mechanical Properties of Modified Double-base Propellants	YAO Nan, WANG Jiang-ning, LIU Zi-ru, ZHANG La-ying (196)
Effects of Fiber on Sensitivity and Spontaneous Combustion of Caseless Ammunition	MA Zhong-liang, TIAN Su-ming, LIU You-ping, XIAO Zhong-liang (201)
Investigation on Burning Rate of B/KNO ₃ Pellet in Closed Bomb Test	ZHU Ming-shui, HE Bi, JIANG Ming, ZHU He-ping (204)
Effect of Oxygen Balance on Combustion Rate of Gas-generating Compositions Containing KClO ₄ /NH ₄ NO ₃	JIN Shao-hua, WANG Wei, SONG Quan-cai (207)
Producer Risk Analysis Based on Margin of Firing Reliability for Initiating Explosive Devices	DONG Hai-ping, MU Hui-na (209)
Statistical Analysis of Sensitivity Coefficient of Variation for Mechanical Explosive Devices	MU Hui-na, JIAO Qing-jie, WEN Yu-quan (212)
Approximate Lower Limit of Bilateral Reliability of Initiating Explosive Devices	HONG Dong-pao, WEN Yu-quan (216)
Effect of Particle Sizes of Aluminum Powder on Radiation Intensity of Flash Pyrotechnic Composites	BA Shu-hong, JIAO Qing-jie, REN Hui (219)
Emission Spectrum Characteristics of Zr-O ₂ Flashlamp	YE Ying-hua, SHEN Rui-qi, XIANG Xun, HU Yan (222)
Study on Interaction of ADN and (NC + NG) by Gasometric Method	HE Shao-rong, ZHANG Lin-jun, HENG Shu-yun, LIU Zi-ru (225)
Chemical Certification Method for Military Purity Standard Substance NTO	WEN Xiao-yan, LIAO Yi, CHEN Zhi-qun, PAN Qing, ZHOU Cheng (229)
Review on the Aging of Solid Propellants	ZHANG Xing-gao, ZHANG Wei, ZHU Hui, WANG Chun-hua (232)
Synthesis and Characterization of 3,3'-Bis(3-aminofuranofuroxan-4-yl)-4',4'-azafurazan	WANG Jun (238)
Glass-transition Temperature of PECH and GAP	SONG Xiao-qing, ZHOU Ji-yi, WANG Wen-hao, WANG Jian-wei, BAI Sen-hu (239)
Application of Modified Polyepoxysuccinic Acid in Reverse Osmosis Treating Wastewater Contaminated by Explosives	ZHANG Su-fang, SHU Yuan-jie, TANG Shao-ming, WANG Xiao-chuan, LIU Xue-yong (240)

No. 3

Experimental Study on Blasting Temperature of Al-HMX Compound Explosive	LI Yuan-yuan, WANG Jian-ling, XU Hong-tao (241)
HMX-based Low-sensitive High Explosives Containing DAAzF	LI Yu-bin, HUANG Hui, LI Jin-shan, LI Hong-zhen (244)
Effect of Sensitizing Agent on Demulsification Degree of Emulsion Explosive under Dynamic Pressure	WU Hong-bo, YAN Shi-long, LIU Feng (247)

Improvement of the Synthetic Process of 4,6-Bis-(5-amino-3-nitro-1,2,4-triazol-1-yl)-5-nitropyrimidine	JIA Si-yuan, WANG Xi-jie, WANG Bo-zhou, ZHANG Hai-hao, XIONG Cun-liang (251)
Morphology Controlling Technique for Submicron CL-20	YANG Li, WANG Shao-zong, ZHAO Peng-juan, ZHANG Tong-lai (254)
Preparation and Characterization of High Purity Nano HNS	WANG Jing-yu, HUANG Hao, WANG Pei-yong, CHEN Jian, LIU Hong-ni (258)
Experimental Study on Emulsion Explosive Made by Loading Machine	YE Tu-qiang, ZHENG Bing-xu, WANG Xu-guang, WU Chun-ping (262)
Kinetics of Non-isothermal Crystallizations of DNTF, TNT and DNTF-TNT Eutectic System Crystallization in RDX	ZHOU Wen-jing, ZHANG Gao, LIU Zi-ru (267)
Probability Distribution of Current Sensitivity of Energetic Materials	WANG Peng, DU Zhi-ming (272)
Design and Performance of Nitramine Pyrotechnics Composition	JIANG Xin-guang, LI Guo-xin, WANG Zhi-xin, LAO Yun-liang (277)
Predicting on the Detonation Performances of Poly-furazans with Oxy Bridges	GE Zhong-xue, LAI Wei-peng, LIAN Peng, WANG Bo-zhou, XUE Yong-qiang (280)
Research on the Performance of PETN and RDX as the Excitation Powder	MA Hong-hao, SHEN Zhao-wu, CHEN Wen-chuan, ZHOU Guang-hui, FANG Jin-xiong (285)
Differential and Integral Isoconversional Non - linear Methods and their Application in Physical Chemistry Study of Energetic Materials V . Theory and Numerical Method Based on Kooij's Formula	HU Rong-zu, ZHAO Feng-qi, GAO Hong-xu, ZHANG Hai, ZHAO Hong-an, MA Hai-xia (290)
Effect of NATO Angle and Plate Velocity on Disturbance Frequency of Reactive Armor against Shaped Charge Jet	LI Ru-jiang, SHEN Zhao-wu (295)
Safety of Pyrotechnics with Modified Potassium Chlorate	QIAN Xin-ming, WANG Peng-fei (298)
Synthesis and Characterization of Novel Poly(ϵ -CL)-block-HTPB-block-poly(ϵ -CL) Triblock Copolymer	CHAI Chun-peng, LUO Yun-jun, GUO Su-fang, LI Guo-ping, CHEN He (301)
Non-isothermal Crystallization Kinetics of Polyethylene Glycol	DANG Yong-zhan, ZHAO Feng-qi, GAO Hong-xu, HU Rong-zu, KANG Bing (305)
Compatibility of Trans-1,4,5,8-tetranitro-1,4,5,8-tetraazadacalin (TNAD) with Some Propellant Components Evaluated by DSC Method	YAN Qi-long, LI Xiao-jiang, LIAO Lin-quan, ZHANG Xiao-hong, LIU Zi-ru (309)
Relationship between the Characteristic Value of PDSC and Burning Rate of NEPE Propellant Containing CL-20	DING Li, ZHAO Feng-qi, LIU Zi-ru, ZHANG La-ying, HENG Shu-yun (315)
Modeling Effects of Aluminum Content and Particle Size on NEPE Combustion Performance	LI Miao-miao, SONG Hong-chang, WANG Yue, CHENG Zhi-peng, GUO Xiao-de (319)
Mechanical Properties of Modified Hydroxyl-Terminated Polybutadiene Based Polyurethane	SUN Jie, ZHENG Yuan-suo, GAO Guo-xin, WANG Lei, TAN Yi-bo (323)
Effects of Vent Duct on Explosion Venting Characteristics of Dust in the Vessel	YU Jian-liang, Lü Ming-yu (327)
Nitration of o-Xylene by Regioselective Catalysis with SO ₃ H Group Supported on Esoporous Molecular Sieve	XI Li-min (333)
Fluorous Biphasic System and Nitration of Toluene	LI Rui-jun, SHI Hong-xin, ZHU Jian-ping, LIU Qiu-ping, XU Jian-guo (337)
Selective Nitration of Toluene at the Presence of Silicotungstic Acid Catalyst	LIU Li-rong, Lü Chun-xu, ZHANG Xiao-bo (341)
Application of Infrared Thermo-imaging Technology in Temperature Measurement of Cloud Explosion	LI Xiu-li, HUI Jun-ming, XIE Li-feng (344)
Review on HTPE Propellants	SONG Xiao-qing, ZHOU Ji-yi, WANG Wen-hao, LI Xin-hao (349)
Synthesis Progress and Application of N-Methyl-N'-nitroguanidine in Melt/Cast Explosives	ZHANG Guang-quan, DONG Hai-shan (353)
Piperazine Chemistry Part I Developments on Synthesis of High Energy Density Compound of Piperazine Series	LIU Yu-zhu, YU Zhi-yu, YU Jiang-yong (356)

No. 4

On a Note of Calculating the Kinetic Parameters of Crystallization / Solidification Reaction from Peak Temperatures of DSC Curves under Different Constant Cooling Rate Conditions	HU Rong-zu, ZHAO Feng-qi, GAO Hong-xu, ZHAO Hong-an (361)
Catalytic Decomposition of RDX-CMDB I . Thermal Decomposition at High Pressure and its Correlation with Burning Rate	XIE Ming-zhao, LIU Zi-ru, HENG Shu-yun, WANG Han, ZHANG La-ying, ZHAO Feng-qi (364)
Thermodynamic Properties and Detonation Performance for Nitro Derivatives of THDCPD by Density Functional Theory	SONG Jing, LI Chun-ying, YANG Jian-ming, Lü Jian, WANG Wen-liang (368)

Synthesis, Crystal Structure, Thermal Analysis and Sensitivity of Mono-Ammonium Trinitrophloroglucinolate	HU Xiao-chun, ZHANG Tong-lai, LIU Zhen-hua, ZHANG Jian-guo, QIAO Xiao-jing, YANG Li (376)
Failure Mechanism Analysis for Two Kinds of Weapons by IR	CHEN Zhi-qun, WANG Ming, WANG Ke-yong, XU Min (383)
Preparation and Properties of a New Type of Pliable Phase Change Material Composite Film	QIU Yong, ZHOU Bo-zhao, HE Ying-bo, ZHANG Kai (387)
Nano-RDX/RF Film Preparation with Sol-gel Method	YU Wei-fei, HUANG Hui, ZHANG Juan, XIA Yun-xia, WANG Ping, LI Jin-shan, NIE Fu-de (391)
Preparation of Branched Glycidyl Azide Polymer Nitrate	WANG Ping, YU Wei-fei, LIU Chun (395)
Nitration of Toluene with Nitric Acid in the Presence of Acidic Ionic Liquids(II)	QI Xiu-fang, CHENG Guang-bin, Lü Chun-xu (398)
Effects of Nano-TiO ₂ on Photocatalytic Degradation Reaction of TNT and HMX	LI Xian, HUO Ji-chuan, YE Xu (401)
Kinetics and Influence Factors of Dinitrotoluene Wastewater Oxidation in Supercritical Water	ZHAO Bao-guo, LIU Yu-cun, GENG Peng-yin, LUO Wen-hao (406)
Blast/Shock Wave Parameters of Single-Event FAE	LI Xiu-li, HUI Jun-ming, WANG Bo-liang (410)
Numerical Simulation of Effect of Ignition Ways on Shaped Charge Jet	ZHANG Hui-suo, ZHAO Han-dong, HUANG Yan-ping, SHI Xing-yu, ZHANG Yan-xin (415)
Electrical Conductivity for the Detonation Products of Some Explosives with Cast TNT	JIN Zhao-xin, JIAO Qing-jie, CHEN Xi, ZENG Liang (420)
Deep Penetration Mechanism of Jet Produced by Shaped Charge with Porous Liner at Low Standoff Distance	LI Ru-jiang, SHEN Zhao-wu, LIU Tian-sheng (424)
Critical Characteristic of Detonation Propagation of Superfine Desensitized HMX Charge in Channel	LI Xiao-gang, JIAO Qing-jie, WEN Yu-quan (428)
Reaction Properties for Different Size PBX-2 Explosives in Bullet Impact Test	DAI Xiao-gan, SHEN Chun-ying, Lü Zi-jian, XIANG Yong (432)
Application of Miller Energy Release Model for Aluminized Explosive	XIN Chun-liang, XU Geng-guang, LIU Ke-zhong, QIN Jian (436)
Effect of Particle Size and Surface Free Energy of RDX on the Mechanical Properties of HTPB Propellant	DU Mei-na, LUO Yun-jun (441)
Molecular Simulation on Structure and Solubility Parameter of Azidodeoxycellulose	HUANG Rui, YAO Wei-shang, TAN Hui-min (446)
Progress in Triaminoguanidine Energetic Compounds	AO Guo-jun, LIU Zhen-hua, ZHANG Tong-lai, YANG Li, ZHANG Jian-guo (450)
Effect of Mg and Al Powders on Combustion Performance of Boron-based Fuel-rich Propellant and Oxidation Efficiency of Boron	WU Wan-e, MAO Gen-wang, LU Jun, GUO Er-ling, HU Jian (458)
Dynamic Mechanical Characterization of Aging Properties for Aged NEPE Propellant	LIU Xin-guo, WANG Guang, QIANG Hong-fu, YANG Yue-cheng (462)
Characterization of Charcoal Used in Pyrotechnic Composition	CUI Qing-zhong, JIAO Qing-jie, REN Hui, YANG Rong-jie (465)
Review on Aminimide Compounds Synthesized by UDMH	LI Zheng-li, ZHANG You-zhi, WANG Xuan-jun, FAN Rui-jun (469)
Review on Impulse Thruster Used for Trajectory Correction of Conventional Munitions in Domestic and Abroad	YANG Qing, WANG Pei-lan, JIN Jian-feng (474)
A New Preparation Technology of PYX	WANG Jun, HUANG Jing-lun, LIAO Long-yu, LI Hong-zhen, NIE Fu-de, HUANG Li-ming, LI Jin-shan (480)

No. 5

Interactional Mechanism Between Laser and Energetic Compound	SHENG Di-lun, ZHU Ya-hong, CHEN Li-kui, YANG Bing, WANG Yan-lan (481)
Relationship between Laser Ignition Delay Time and Charge Density of Zr/KClO ₄	YAN Nan, ZENG Ya-qin, FU Hong (487)
Thermal Safety of Tri-base Gun Propellants M32 and SD	ZHAO Feng-qi, HU Rong-zu, GAO Hong-xu (490)
The Kinetics of the Effective Stabilizer Consumption Reaction in High Energy Gun Propellants	HENG Shu-yun, HAN Fang, ZHOU Ji-hua, LIU Shao-wu, TAN Hui-min, HU Ling (494)
Applied Study on Estimate-calculating Tensile Intensity of Dissolution-adding-plasticity Propellant by Polymer Theory	DU Ping, HE Wei-dong, WANG Ze-shan (498)
Analysis on Combustion Characteristics of B/BaCrO ₄ Delay Composition	WU Shuang-zhang, SHEN Rui-qi, YE Ying-hua, LI Shi-lei (502)
Effect of Nano-Fe ₂ O ₃ on the Burning Characteristics of Tungsten Type Delay Composition	HUANG Yin-sheng, LI Jin-tao, CUI Chen-chen, LIU Jie, ZANG Xiao-wei, DUAN Jin-jun (507)
Study on Superfine HNS Particles	WANG Ping, YU Wei-fei, ZHANG Juan, LIU Chun (511)
Preparation and Characterization of Ultra-fine A ₅ Booster	LIANG Yi-qun, ZHANG Jing-lin, JIANG Xia-bing, WANG Bao-guo (515)
Effect of Surface Area on Sensitivity and Properties of BNCP Superfine Particles	

.....	YU Wei-fei, CHEN Ya, NIE Fu-de, ZHI Yong-fa, ZENG Gui-yu, WANG Ping, ZHANG Qi-rong (519)
Determination of Diffusion Coefficient of Deterrent in EI Propellant by FTIR Microspectroscopy	PAN Qing, WANG Qiong-lin, YU Hui-fang, LUAN Jie-yu (521)
Effect of Environmental Humidity on the Thermal Decomposition Kinetics of One New-type Propellant	ZHANG Jun, LU Gui-e, JIANG Jin-yong (525)
Determination Methods for the Gas-fired of Propellant	HU Lan, ZHANG Gao, WANG Jing-na, GAO Lang-hua (527)
HMX Content in PBX Booster Measured by Visible Spectro-photometric Method	LIANG Yi-qun, ZHANG Jing-lin, JIANG Xia-bing (531)
Reliability Assessment for Initiating Devices Based on Bootstrap	WEN Yu-quan, HONG Dong-pao (535)
Study on the Aging Effect of a Detonator	TU Xiao-zhen, LI Jing-ming, WEI Xing-wen, ZHOU Yang, WANG Pei, LI Wei (539)
Preparation and Properties of Thin Film Bridge EED	WANG Guang-hai, LI Guo-xin, A Su-na (543)
Radiofrequency Sensitivity of Hot-bridge Electric Explosive Device	CHEN Ming-hua, ZHANG Guo-an, LU Rui-qing, XING Li-ping (547)
Reliability Test Information Entropy under the Special Condition	CAI Rui-jiao, DONG Hai-ping (550)
Validity of Variables-Attributes Assessment Method for Reliability of Initiating Explosive Devices	DONG Hai-ping, CAI Rui-jiao, MU Hui-na (553)
Order Restricted Analysis of Reliability Tests for Explosive Initiator	HONG Dong-pao, ZHAO Yu, WEN Yu-quan (556)
Firing Reliability Design of Hot Bridge-wire Electro-Explosive Device	DONG Hai-ping, CAI Rui-jiao, MU Hui-na, CAO Jian-hua (560)
Measurement and Calculation for SCB Electro-explosion Energy Conversion Features	ZHANG Wen-chao, YE Jia-hai, QIN Zhi-chun, ZHOU Bin, TIAN Gui-rong, XU Zhen-xiang (564)
Theoretical Study on Relationship Between Structures and Properties of Pyrazole Compounds	YIN Ming, SHU Yuan-jie, XIONG Ying, LUO Shi-kai, LONG Xin-ping, ZHU Zu-liang, DU Jun-liang (567)
A Density Functional Theory Investigation on the Isomers of Tetrazene	CUI Yan, ZHANG Tong-lai, ZHANG Jian-guo, YANG Li (572)
Crystal Structure and Thermal Behavior of GDN	XU Kang-zhen, ZHAO Feng-qi, DING Li, WANG Han, LI Meng, CHANG Chun-ran, MA Hai-xia, SONG Ji-rong (577)
Synthesis and Characterization of GZT	WANG Yi-hui, DU Zhi-ming, HE Chun-lin, CONG Xiao-min, WANG Hong-she, WANG Chun-ying (581)
Electric Spray Ionization Mass Spectrum of Tetrazene	LIU Jun-wei, ZHANG Jian-guo, ZHANG Dan-dan, ZHANG Tong-lai, YANG Li (585)
Infrared Images Shielded Characteristics of Carbon Nano-Materials	WANG Hong-xia, LIU Dai-zhi, SONG Zi-biao (588)
Application of Tiny Graphite Powder in Combustible Anti-infrared Smoke Screen	BA Shu-hong, WANG Nai-yan (592)
Cu-Ag Plating Carbon Fiber Fabric and its Radar Cross Section Speciality in 3 mm Wave Band	HOU Wei, PAN Gong-pei, GUAN Hua, ZHU Chen-guang (595)
Extinction Performance of Nano-Ni Powder to 1.06 μm and 10.6 μm Laser	LIU Xiang-cui, ZHENG Wei-ping (599)
Experimental Study on Acoustic Frequency Property of Pulsating Combustion Underwater for Pyrotechnic Composition	OUYANG De-hua, PAN Gong-pei, GUAN Hua, HOU Wei, FAN Lei, DU Xue-feng (603)
Study on the Coating of Potassium Chlorate with PVB and its Safety	QIAN Xin-ming, WANG Peng-fei (606)
Molecular Design and Synthesis of Hydroxyalkyl Cellulose Ether Nitrate as Novel Energetic Adhesive	SHAO Zi-qiang, ZHANG You-de, YANG Fei-fei, Lü Shao-yi, WANG Ji-xun (609)
Synthesis and Characterization of GAP-based Thermoplastic Elastomer	JIAN Xiao-xia, XIAO Le-qin, ZUO Hai-li, ZHOU Wei-liang, XU Fu-ming (614)
Miniature Detonating Cord (MDC) for Breaking Organic Glass Plates	Bogdan ZYGMUNT (618)
Delay Time of Detonation Wave of Superfine Insensitive HMX Charged in Limited Corner Channel	LI Xiao-gang, JIAO Qing-jie, WEN Yu-quan (621)
Experimental Study on Electrical Ignition Properties of Liquid Propellant Droplet	YU Yong-gang, LI Ming, ZHOU Yan-huang, LU Xin (625)
Transient Combustion Performance of Igniter for Base Bleed Unit Under Rapid Depressurization	LU Chun-yi, ZHOU Yan-huang, YU Yong-gang (629)
Progress in Plasma Ignition of Insensitive High Energy Propellants	XIAO Zheng-gang, YING San-jiu, ZHOU Wei-liang, XU Fu-ming (633)
Review on Decreasing the Ignition Energy by Semi-Conductor Bridge	XU Lu, ZHANG Lin, FENG Hong-yan, LIU Li-juan, ZHU Shun-guan (639)

No. 6

Heats of Formation for Energetic Compounds Calculated using atomization reactions	QIU Li-mei, GONG Xue-dong, ZHENG Jian, XIAO He-ming (647)
A New Aspect of Relationships between Electric Spark Sensitivity and Thermal Stability of Some Polynitro Arenes	Svatopluk Zeman (652)
Dissipative Particle Dynamics Simulation on the Mesoscopic Structure of TATB-based PBX	ZHANG Yan-li, JI Guang-fu, GONG Zi-zheng, LI Xiao-feng, CUI Hong-ling (659)

Preparation Crystal Structure and Thermal Decomposition Mechanism of Mn(CHZ) ₂ (N ₃) ₂	LIU Zhen-hua, ZHANG Tong-lai, ZHANG Jian-guo, YANG Li, ZHANG Jin, ZANG Yan (663)
Amine-Aldehyde Condensation Reaction of Tetraacetylhexaazaisowurtzitane	SUN Cheng-hui, ZHAO Xin-qi (669)
Synthesis and Properties of 2,6-Diamino-3,5-dinitropyridine-1-oxide	CHENG Jian, YAO Qi-zheng, ZHOU Xin-li, DU Yang, FANG Dong, LIU Zu-liang (672)
Synthesis of 1-Amino-1,2,3-triazole	SHI Hong-gang, LI Sheng-hua, LI Yu-chuan, LI Xiao-tong, PANG Si-ping (676)
Preparation of RDX by Nitrolysis of Hexamethylenetetramine in Fluorous Media	YI Wen-bin, CAI Chun (679)
Post-Processing for Hydroxy Terminal Polyepoxy Chloropropane and Azido Polyethers	LU Xian-ming, GAN Xiao-xian, XING Ying, ZHANG Zhi-gang, HAN Tao (682)
Recrystallization and Properties of LLM-105	LI Hai-bo, CHENG Bi-bo, LIU Shi-jun, NIE Fu-de, LI Jin-shan (686)
Application of ATP-28 in Cast-cured Explosive	GAO Li-long, XI Peng (689)
Properties for PBX Cylinder during Temperature Rising	LAN Qiong, LU Jian-ying, ZHANG Ming, YONG Lian (693)
Effect of Preparation Methods on Mechanical Sensitivity and Thermal Decomposition of HMX	SONG Xiao-lan, AN Chong-wei, GUO Xiao-de, LIU Hong-ying, ZHANG Jing-lin, LI Feng-sheng (698)
Prediction for Clamping Deformation of PBX Parts on Machining Process	TANG Wei, LI Ming, ZHANG Qiu, HUANG Jiao-hu, ZHAO Yong-zhong, LIU Wei, ZHAO Xiao-dong (703)
Measurement and Analysis of the Frictional Static Electricity Characteristics of Composite RDX	LU Ming, ZHAO Sheng-xiang, CHEN Jing (708)
Properties of Prilled Ammonium Dinitramide (ADN) Coated by Polyurethane Binders	XU Hui-xiang, LIAO Lin-quan, LIU Qian, LI Yong-hong, RAN Xiu-lun, ZHAO Feng-qi (712)
Catalytic Decomposition of RDX-CMDB Propellants II . Gaseous Products of Decomposition and Catalytic Mechanism	XIE Ming-zhao, LIU Zi-ru, HENG Shu-yun, WANG Han, WANG Xiao-hong, ZHAO Feng-qi (716)
Effects of Aluminum Powder Content and Granularity on Characteristics of CMDB Propellant	CHEN Xue-li, WANG Ying, WANG Hong, SUN Mei (721)
Selection of Fireproof Materials in Combustion Heat Testing of Fuel-rich Propellant	WANG Ying-hong, PAN Kuang-zhi, SUN Zhi-hua, ZHANG Xiao-hong (724)
Synthesis and Explosion Characteristics of Porous Silicon/NaClO ₄ Composites	LI Xue-ming, HU Xin, HUANG Hui, YU Wei-fei, NIE Fu-de (727)
Numerical Simulation of Parameters on Formation of Quasi-spherical EFP	WANG Shu-you, JIANG Jian-wei, MEN Jian-bing (731)
Application Study on a Polymer Bonded Plastic Explosive after Explosion Hardening	AN Er-feng, CHEN Peng-wan, YANG Jun (734)
Effect of Aluminum Powder Content on Performance of Emulsion Explosive	ZHANG Hu, XIE Xing-hua, GUO Zi-ru, WAN Xiang-dong (738)
Numerical Simulation Research on Shockwave Propagation Characteristics Inside Branch Tunnel	QIN Bin, ZHANG Qi, XIANG Cong, WANG Deng-gui, LI Wei (741)
Photocatalytic Degradation of HMX and RDX Wastewater with CdS/Cu Nanophotocatalyst	Hamid Reza Pouretedal, Mohammad Hossien Keshavarz, Mohammad Hasan Yosefi, Arash Shokrollahi, Abbas Zali (745)
Review on $\beta \rightarrow \delta$ Phase Transition of HMX	XUE Chao, SUN Jie, SONG Gong-bao, KANG Bin, XIA Yun-xia (753)
High Energy Density Compounds Cyclophosphazene . VI . Cyclophosphazene Compounds and Their Application on Energetic Materials	ZHENG Hui-hui, ZHANG Jian-guo, ZHANG Tong-lai, YANG Li, FENG Li-na (758)
Application of Microreactor in Strong Exothermic Reactions	SONG Hong-yan, WANG Peng, MENG Wen-jun, HAN Jun-qi, MENG Zi-hui, ZHOU Zhi-ming (762)
A Simple Method of Characterizing Impact Sensitivity of Nitroaromatic Explosives	DU Jun-liang, SHU Yuan-jie, ZHOU Yang, YIN Ming, LONG Xin-ping, ZHU Zu-liang (766)
Experimental Study on Micron Crystal Defect of Explosive by μ VCT	ZHANG Wei-bin, DAI Bin, TIAN Yong, HUANG Hui, YANG Cun-feng, ZONG He-hou, LI Hong-zhen (767)
Annual Cumulative Contents (Vol. 16, 2008)	(• 1 •)