

\* 中文核心期刊  
\* 中国科技核心期刊  
\* RCCSE 中国核心学术期刊  
\* 中国科学引文数据库来源期刊  
\* EI、SCOPUS、CA、CSA、AJ、JST 收入期刊

目次 第 28 卷 第 4 期 2020 年 4 月 25 日

◆ 综述

聚脲弹性体在爆炸防护中的研究进展·····冯加和,董奇,张刘成,杨沙,胡榕希 (277)

◆ 计算与模拟

AP 多粒度级配固体推进剂非稳态燃烧响应模型·····金秉宁,刘佩进,徐冠宇 (291)

基于 SPH-FEM 耦合法切缝药包爆破机理数值模拟·····程兵,汪海波,宗琦 (300)

PEG/增塑剂共混物相容性的分子动力学模拟和介观模拟·····陈思彤,董可海,唐岩辉,裴立冠,王鑫,夏成,孔令泽 (308)

八种溶剂体系中 HMX 晶体形貌的分子动力学模拟和实验研究(英)·····王蕾,陈东,李洪珍,段晓惠,于雁武 (317)

◆ 制备与性能

新型内盐 *N*-(2,2-二硝基乙基)氨基胍的合成与性能·····赖媛,潘传鑫,周婷婷,段晓惠,伍波 (330)

球磨法制备 Fe<sub>2</sub>O<sub>3</sub> 掺杂纳米铝热剂及其燃烧性能(英)·····  
·····姜艾锋,夏德斌,李梦茹,林凯峰,强亮生,李佳贺,范瑞清,杨玉林 (336)

两种多硝基偶氮苯类含能化合物的合成及其性能·····杨晓明,周铭锐,林芯羽,李志敏,王林,张同来 (344)

◆ 安全性能与评价

液压致裂法在 PBX 炸药拉伸强度测试中的适用性·····颜学坚,唐维,袁洪魏,赵龙,孙杰,常双君 (352)

淹没空化水射流倒空钝黑铝炸药实验研究·····张么玄,廉鹏,康超,陈松,雷靖华,罗志龙,李萌,陈厚和 (358)

**Reviews**

- 277 FENG Jia-he, DONG Qi, ZHANG Liu-cheng, YANG Sha, HU Rong-xi **Review on Using Polyurea Elastomer for Enhanced Blast-mitigation**

**Calculation and Simulation**

- 291 JIN Bing-ning, LIU Pei-jin, XU Guan-yu **Unsteady Combustion Response Model of Multi-modal Ammonium Perchlorate Composite Propellant**
- 300 CHENG Bing, WANG Hai-bo, ZONG Qi **Numerical Simulation on Blasting Mechanism of Slotted Cartridge Based on Coupled SPH-FEM Algorithm**
- 308 CHEN Si-tong, DONG Ke-hai, TANG Yan-hui, PEI Li-guan, WANG Xin, XIA Cheng, KONG Ling-ze **Molecular Dynamic Simulations and Mesoscopic Dynamic Simulations on the Compatibility of PEG/Plasticizer Blends**
- 317 WANG Lei, CHEN Dong, LI Hong-zhen, DUAN Xiao-hui, YU Yan-wu **Crystal Morphology of  $\beta$ -HMX Under Eight Solvents System Using Molecular Dynamics Simulation and Experiment**

**Preparation and Property**

- 330 LAI Yuan, PAN Chuan-xin, ZHOU Ting-ting, DUAN Xiao-hui, WU Bo **Synthesis and Properties of New Zwitterionic *N*-(2,2-Dinitroethyl)-aminoguanidine**
- 336 JIANG Ai-feng, XIA De-bin, LI Meng-ru, LIN Kai-feng, QIANG Liang-sheng, LI Jia-he, FAN Rui-qing, YANG Yu-lin **Combustion Performance of  $\text{Fe}_2\text{O}_3$ -containing Nanothermites Prepared by Ball Milling Method**
- 344 YANG Xiao-ming, ZHOU Ming-rui, LIN Xin-yu, LI Zhi-min, WANG Lin, ZHANG Tong-lai **Synthesis and Properties of Two Kinds of Polynitroazobenzene Energetic Compounds**

**Safety Performance and Assess**

- 352 YAN Xue-jian, TANG Wei, YUAN Hong-wei, ZHAO Long, SUN Jie, CHANG Shuang-jun **Applicability of Hydraulic Fracturing Method in Tensile Strength Test of Polymer Bonded Explosives**
- 358 ZHANG Yao-xuan, LIAN Peng, KANG Chao, CHEN Song, LEI Jing-hua, LUO Zhi-long, LI Meng, CHEN Hou-he **Experimental Study of Emptying A-IX - II Explosive Using Submerged Cavitation Water Jet**