

\* 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 收录期刊

**特邀 损伤与点火 专栏 (特邀\*)**

- ◆ 含能快递 ..... (951)

◆ 损伤与点火

- 高氯酸盐对 Al-MnO<sub>2</sub> 纳米铝热剂热性能及燃烧性能的影响\* ..... 宋佳星, 郭 涛, 姚 森, 陈嘉琳, 丁 文, 刘晓峰 (953)  
TATB 造型粉颗粒单轴压缩力学性能\* ..... 马寅翔, 刘 晨, 王 慧, 张才鑫, 陈 华, 张伟斌 (960)  
基于多孔介质模型的点火火焰在发射药颗粒床中的传播特性\* ..... 刘 承, 陶如意, 薛 绍, 王 浩 (969)  
典型压装与浇注 PBX 炸药缝隙挤压损伤-点火响应\* ..... 杨 昆, 吴艳青, 金朋刚, 黄风雷 (975)  
Al/Ni 类含能结构材料冲击压缩特性细观模拟\* ..... 熊 珂, 张先锋, 陈海华, 杜 宁, 包 阔, 谈梦婷 (984)  
基于有限元-离散元结合方法的 Steven 实验三维数值模拟 ..... 黄彬彬, 傅 华, 喻 寅, 刘合理 (995)  
空位对五唑阴离子盐 Mn(N<sub>5</sub>)<sub>2</sub> 冲击反应和损伤演化的影响\* ..... 姚 闻, 杨叶子, 余 一, 孙长庆, 张 蕾 (1003)  
基于电磁超声共振的金属环-含能材料界面脱粘缺陷检测\* ..... 周海强, 刘天浩, 裴翠祥 (1010)

◆ 综述

- 含能铝粉表面改性技术研究进展 ..... 刘 勇, 白海军, 甘巧玉, 景黄丽, 石建波, 王洪波, 黄 革, 赵奇志 (1017)  
TATB 在不同溶剂中的溶解特性研究进展 ..... 贾建慧, 陈建波, 刘 渝 (1026)

◆ 读者·作者·编者

- 专栏导言(前插一) 中国工程物理研究院化工材料研究所主办的 Energetic Materials Frontiers 创刊(前插二)  
2021 专题预告(后插)

# CHINESE JOURNAL OF ENERGETIC MATERIALS

Monthly

CONTENTS Vol. 28 , No. 10 , 25 October , 2020

## Invited Column on damage and ignition

951 Energetic Express

### Damage and Ignition

- |      |   |  |
|------|---|--|
| 953  | SONG Jia-xing, GUO Tao, YAO Miao, CHEN Jia-lin, DING Wen, LIU Xiao-feng   | <b>Effects of Perchlorates on Thermal Properties and Combustion Performance of Al-MnO<sub>2</sub> Nanothermite*</b>                              |
| 960  | MA Yin-xiang, LIU Chen, WANG Hui, ZHANG Cai-xin, CHEN Hua, ZHANG Wei-bin  | <b>Mechanical Property of the Single TATB Granule by Uniaxial Compression*</b>   |
| 969  | LIU Cheng, TAO Ru-yi, XUE Shao, WANG Hao                                  | <b>The Propagation Characteristics of Ignition Flame in Propellant Particle Bed Based on Porous Media Model*</b>                                 |
| 975  | YANG Kun, WU Yan-qing, JIN Peng-gang, HUANG Feng-lei                      | <b>Damage-ignition Simulation for Typical Pressed and Casted PBX under Crack-extruded Loading*</b>   |
| 984  | XIONG Wei, ZHANG Xian-feng, CHEN Hai-hua, DU Ning, BAO Kuo, TAN Meng-ting | <b>Mesoscale Modeling on Dynamic Behavior of Al/Ni Energetic Structural Materials Under Shock Compression*</b>                                   |
| 995  | HUANG Bin-bin, FU Hua, YU Yin, LIU Cang-li                                | <b>Three-dimensional Numerical Simulation of Steven Test by the Combined Finite-Discrete Element Method</b>                                      |
| 1003 | YAO Chuang, YANG Ye-zi, YU Yi, SUN Chang-qing, ZHANG Lei                  | <b>Effect of vacancy defect on shock reaction and damage evolution of pentazolate salt Mn(N<sub>5</sub>)<sub>2</sub>*</b>                        |
| 1010 | ZHOU Hai-qiang, LIU Tian-hao, PEI Cui-xiang                               | <b>Interface Debonding Inspection in Metal Ring and Energy-Containing Material Bonding StructureBased on Electromagnetic Acoustic Resonance*</b> |

### Reviews

- |      |   |  |
|------|---|--|
| 1017 | LIU Yong, BAI Hai-jun, GAN Qiao-yu, JING Huang-li, SHI Jian-bo, WANG Hong-bo, HUANG Ge, ZHAO Qi-zhi | <b>Surface Modification Technologies of Energetic Aluminum Powders: A Review</b> |
| 1026 | JIA Jian-hui, CHEN Jian-bo, LIU Yu  | <b>Review on the Dissolution Characteristics of TATB in Different Solvents</b>   |