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Energetic materials research and testing center

Incident Response to Terrorist Bombings actions during pre- and post-detonation or deter terrorist attacks involving energetic materials.

Center of excellence for explosives detection,

Sublimation Rate of Energetic Materials in Air: RDX and PETN, PDF, 2011, Arcady Role of Metal Ions in the Destruction of TATP: Theoretical Considerations, PDF . Accumulation of Explosives in Hair: Part II: Factors Effecting Sorption, PDF, 2007 . Combustion, & Detonation Chemistry of Energetic Materials editors Brill,

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Explosive material - wikipedia, the free encyclopedia

An explosive material, also called an explosive, is a reactive substance that contains a great amount of potential energy that can produce an explosion if released

Jmp: publications - university of notre dame

Jul 8, 2015 Powers, J. M., 2006, "Review of Multiscale Modeling of Detonation," Journal of with True Fifth Order Accuracy," Journal of Computational Physics, 213(1): of Two-Phase Detonation--Part II Structure," Combustion and Flame, . of Detonation," Gordon Research Conference-Energetic Materials, Tilton,

From laminar to turbulent detonations in energetic

From laminar to turbulent detonations in energetic materials from molecular The structure of a self-sustained detonation wave in solid energetic materials was

Detonation shock dynamics of composite energetic

Abstract A reaction-rate equation for a composite energetic material was calibrated from two-dimensional steady-state experiment data by using the detonation shock

Computational characterization of a potential

Central European Journal of Energetic Materials, 2011, 8(1), 39-52 2Department of Chemistry, University of New Orleans, .. Fast Molecular Processes in Energetic Materials, in: Energetic. Materials. Part 2. Detonation, Combustion. [22] Alkorta I., Elguero J., Rozas I., Balaban A.T., Theoretical Studies of Aza Analogues.

Energetic materials - office of naval research

Energetic materials weapon systems can be a Game Changer by increasing warfighters lethality and area of dominance.

Energetic materials - gordon research conferences

The 2014 Gordon Research Conference on Energetic Materials, "Characterization of Energetic Material Behavior with Detonation Performance Scaling Measurements"

Numerical modeling of shock-to- detonation

Determining the hazard classification of energetic materials is important for transportation safety and storage concerns. To avoid costly grain redesign and add

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Abstract - wiley online library

ClO_x and NO_x (x=1,2): A review, Computational and Theoretical Chemistry, 2011, 2003, 118, 9, 4094 CrossRef; 5 R.S. Zhu, M.C. Lin, Energetic Materials - Part 2. Detonation, Combustion, 2003, 13, 373 CrossRef; 6 Adrian F. Tuck, Law of vibrational spectra and binding energy of HCl ClO and Cl₂ ClO complexes,

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The online version of Theoretical and Computational Chemistry at ScienceDirect. com, the Chapter 1 A survey of the thermal stability of energetic materials.

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pp. 1-453 (2003) Energetic Materials Part 2. Detonation, Combustion Chapter 2 - Classical molecular dynamics simulations with quantum degrees of freedom.

Central european journal of energetic materials

Two favorable primary mechanisms of fission in the NM initiation and . in: Politzer P., Murray J. (Eds.), Theoretical and computational chemistry, Vol. 13, Energetic Materials, Part 1, Detonation, combustion, Elsevier B. V., Amsterdam 2003, pp.

Ignition and detonation in energetic materials: an

Ignition and Detonation in Energetic Materials: An Introduction STO-EN-AVT-214 3 - 3 only two places where mass, momentum and energy are conserved and so

Advanced modeling of detonation dynamics in

Abstract Explosives are energetic materials that support a supersonic detonation wave; a shock followed by an exothermic reaction zone. Because the explosive products

Deflagration-to- detonation transition in porous

A numerical study of deflagration-to-detonation transition (DDT) in porous HMX materials is carried out. Three reactive-flow models varying from single phase to three

Modelling detonation waves in heterogeneous

The computation of detonation waves in heterogeneous explosives involves compressible multiphase mixtures due to the chemical decomposition of the energetic mat

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The online version of Theoretical and Computational Chemistry at ScienceDirect. com, the Detonation, Combustion Energetic Materials Part 1. Chapter 2 Density functional theory models of reactivity based on an energetic criterion.

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Decomposition mechanisms and kinetics of novel

Jul 18, 2013 1,2,5-oxadiazole (BNFF-1), and 3-(4-amino-1,2 Explosive decomposition consists of three main stages: initiation, combustion, and detonation. The two chemistry in energetic compounds is a complex process, and hence progress in to initiation of detonation (or a propensity of an energetic material to.

Investigations on deflagration to detonation

The research carried out by this contract was part of a larger effort funded by LANL in the areas of deflagration to detonation in porous energetic materials (DDT

Detonation meso scale tests for energetic

The objective of the present study is to characterize, on the meso scale level, the detonation behaviour of PBX based on HMX , based in the minimisation of the test

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Atomistic studies of shock-wave and detonation

Scholar Commons Citation. Budzevich, Mikalai, "Atomistic Studies of Shock-Wave and Detonation Phenomena in Energetic Materials" (2011). Graduate Theses and Dissertations.

Shock induced detonations in composite

Shock induced detonations in composite heterogeneous energetic materials R. K. Shukla , C. Pantano , T. L. Jackson , J. M. Austin , J. B. Freund

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Burning rate of solid propellant ingredients, part

Joseph R. Peterson, Charles A. Wight. (2012) An Eulerian Lagrangian computational model for deflagration and detonation of high explosives. Combustion and

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Agu publications

Rate constants for the reactions of OH with C O, C 2, and C 2O at 298K ClO_x and NO_x (x=1,2): A review, Computational and Theoretical Chemistry, 2011, 18 , 4060 Wiley Online Library; 3 R.S. Zhu, M.C. Lin, Energetic Materials - Part 2. Detonation, Combustion, 2003, 13, 373 CrossRef; 4 R. S. Zhu, Z. F. Xu, M. C. Lin,

Wright-patterson air force base - fact sheet

The portfolio focuses on energetic materials science and shock physics of heterogeneous in energetic materials, including reactive materials by design;; Detonation physics, . (2) Combustion Chemistry the key element governing the underlying theoretical and computational) approaches to understand the combustion

Energetic materials, volume 13: part 2.

This volume provides an overview of current research and recent advances in the area of energetic materials, focusing on explosives and propellants.

Detonation shock dynamics for porous explosives

scitation: detonation shock dynamics for porous explosives and energetic materials

Emission factors for the disposal of energetic

(, \))-L; I -1--I EPA/600/R-98/103 Emission Factors for the Disposal of Energetic Materials by Open Burning and Open Detonation (OB/OD) By William J. Mitchell and

Nanostructure enhanced chemical reactivity and

These simulations are also being used to calibrate the materials and chemistry Nanostructure enhanced Chemical Reactivity and Detonation in Energetic Materials.

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