

Chemistry Of High Energy Materials De Gruyter Textbook

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Chemistry of High-Energy Materials by Thomas M. Klapoetke ...

R.A. Rodriguez Chemistry of High Energy Materials. R.A. Rodriguez Chemistry of High Energy Materials Baran GM 2012-08-18 High Energy Materials Explosives Non-explosive materials High Explosives Low Explosives 1 ° Explosives 2 ° Explosives Propellants Pyrotechnics - [Fireworks - Color/flash/sound de tonaby ig] - Leadzi - Tetrazene [ned toar] - TN - RDX - Black powder - liquid/solid Organic Chemistry of Explosives by J.P. Agrawal and R.D. Hodgson Prof. Thomas Klapoetke - Ludwig-Maximilians ...

R.A. Rodriguez Chemistry of High Energy Materials

Fundamental Properties of High Energy Materials $C + H_2 + N_2 + O_2$ explosive explosive explosion products (CO_2 , CO , H_2O , N_2 , etc.) heat of formation (H_f) H_f heat of explosion (Q) volume of gases released (V) Q specific impulse (I_{sp}) total impulse delivered by a unit of propellant velocity of detonation (VOD) speed with which detonation wave propagates

High Energy Materials - Princeton University

Recent Advances in High Nitrogen Energetic Materials - MSU 39.6 Gpa = 404 Mg/cm². 135 Hummer H₂/cm². Agrawal, J. High Energy Materials: Propellants, Explosives and Pyrotechnics.;

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Klapoetke, Thomas M. Chemistry of High-Energy Materials. Series: De Gruyter Textbook 600,00 € / \$690.99 / £545.50*

Chemistry of High-Energy Materials

(Institute of Energetic Materials, 1 November 2010) "The work is clearly and appropriately divided into six chapters, and leads the reader through almost every aspect of high-energy materials. It is written in a way that is also understandable for readers other than chemists." (Angewandte Chemie, 2010)

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Authored by an insider with over 40 years of high energy materials (HEMs) experience in academia, industry and defense organizations, this handbook and ready reference covers all important HEMs from the 1950s to the present with their respective properties and intended purposes. Written at an attainable level for professionals, engineers and technicians alike, the book provides a comprehensive ...

High Energy Materials: Propellants, Explosives and ...

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Chemistry of High-Energy Materials: Klapoetke, Thomas M ...

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To achieve a high triplet energy level, a pyridine linker was placed between the benzimidazole and dibenzofuran moieties. As a result, 4-DBFBI and 5-DBFBI showed a high triplet energy level of 3.06 eV and 2.96 eV, respectively. Further, blue TADF devices were fabricated with our synthesized bipolar host materials.

High triplet energy bipolar host materials with the ...

Dopant Distribution in Co-Free High-Energy Layered Cathode Materials | Chemistry of Materials. The practical implementation of Co-free, LiNiO₂-derived cathodes has been prohibited by their poor cycle life and thermal stability, resulting from the structural instability, phase transformations, reactive surfaces, and chemomechanical breakdown.

Dopant Distribution in Co-Free High-Energy Layered Cathode ...

Chemistry of High Energy Materials , Thomas M. Klap ö tke The last attempt in this field dates back to 2004 with Jaqueline Akhavan ' s 2 nd edition of “ The Chemistry of Explosives ” . However this was not accepted by the expert audience (F. J. Feher, Review of “ The Chemistry of Explosives ” by J. Akhavan, J. Pyrotech. 2005 , 21 , 72 – 74).

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Chemistry of High-Energy Materials: Edition 3 by Thomas M ...

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Boosting the interface reaction activity and kinetics of ...

The ternary composite exhibits a high specific capacitance of 450 F g⁻¹ in a symmetric cell configuration, with maximum energy density of 131.4 Wh kg⁻¹ and power density of 27.49 kW kg⁻¹. The ternary hybrid also shows a cyclic stability of 91 % after 5000 cycles. Extensive density functional theory (DFT) simulations on the structure as well as on the electronic properties of the binary hybrid structure VSe₂/SWCNTs and the ternary hybrid structure VSe₂/SWCNTs/rGO have been ...

Two Dimensional Layered Metallic VSe₂/SWCNTs/rGO Based ...

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