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Chemistry of High-Energy Materials - De Gruyter Textbook (Paperback) Thomas M. Klapoetke
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 $C + H_2 + N_2 + O_2$ explosive explosive explosion products (CO_2 , CO , H_2O , N_2 , etc.) heat of formation (ΔH_f) ΔH_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. ρ 135 Hummer H₂/cm². Agrawal, J. High Energy Materials: Propellants, Explosives and Pyrotechnics.;

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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.

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Chemistry of High-Energy Materials , Thomas M. Klapötke ...

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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

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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 ...

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