Special Issue

Recent Advances in Nitrogen-Rich Energetic Materials: Synthesis, Structure, and Properties

Message from the Guest Editor

Energetic materials include explosives, propellants, and pyrotechnics that are used for a variety of military purposes and civilian applications. Traditional energetic materials include 2,4,6-trinitrotoluene (TNT), 1,3,5-trinitro-1,3,5-triazine (RDX), 1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX), 2,4,6,8,10,12-hexanitro-2,4,6,8,10,12-hexaazaisowurtzitane (CL-20), etc. Unfortunately, the energy and stability of energetic materials are contradictory to each other. The issue of how to achieve the balance between the two is of important scientific significance and strategic value. Therefore, the main goal of this subject is to create high-energy and relatively insensitive nitrogen-rich energetic materials and to understand the design of these materials, the synthesis reaction process, and the relationship between structure and performance.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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