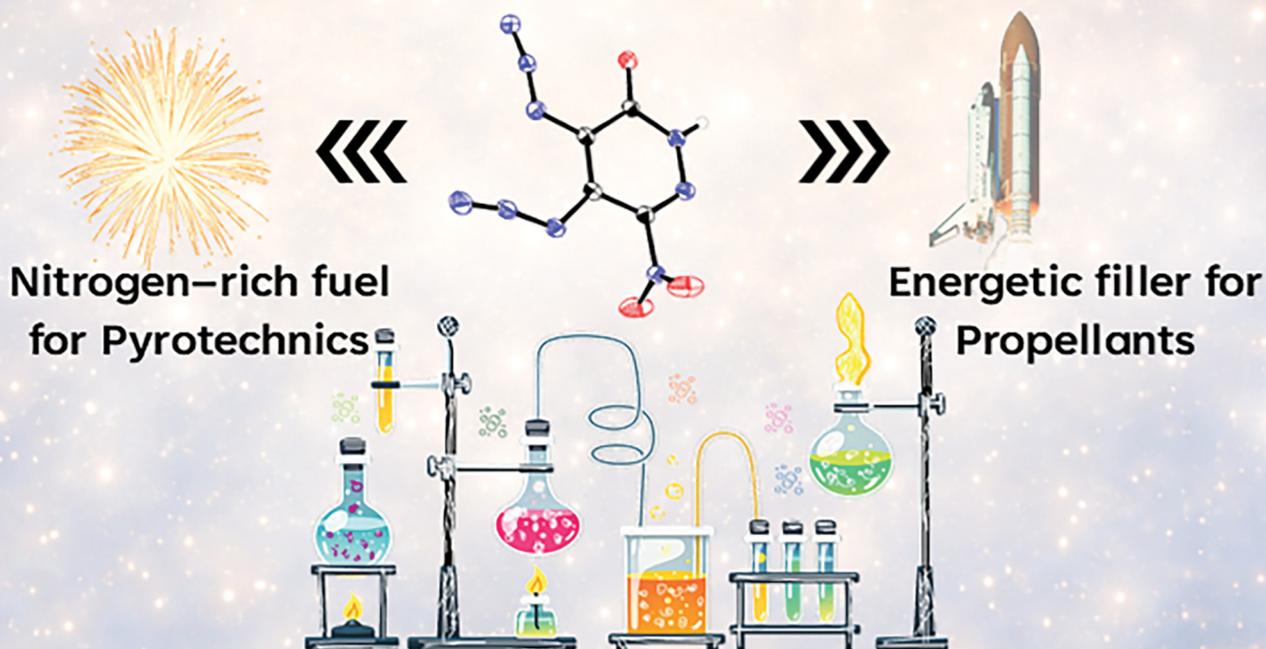


Nitrogen- Rich Fuel for Propellant and Pyrotechnic Applications



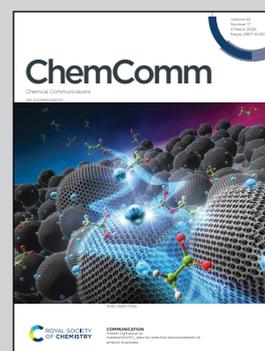
Showcasing research from Professor Srinivas Dharavath's Energetic Materials Laboratory, Department of Chemistry, Indian Institute of Technology Kanpur, Uttar Pradesh, India.

4,5-Diazo-6-nitropyridazin-3(2H)-one: a versatile nitrogen-rich compound for multifaceted energetic applications

A nitrogen-rich energetic compound, 4,5-diazo-6-nitropyridazin-3(2H)-one, was synthesized *via* a simple route. Its high density, good detonation performance, acceptable thermal stability, moderate sensitivities, and compatibility with common oxidizers underscore its significance as a promising environmentally benign alternative for initiators, propellants, and advanced pyrotechnic applications.

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