

Qi Sun

List of Publications by Year in descending order

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17
papers

386
citations

840776

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888059

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217
citing authors

#	ARTICLE	IF	CITATIONS
1	Combination of four oxadiazole rings for the generation of energetic materials with high detonation performance, low sensitivity and excellent thermal stability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11063-11070.	10.3	54
2	Embellishing bis-1,2,4-triazole with four nitroamino groups: advanced high-energy-density materials with remarkable performance and good stability. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11752-11760.	10.3	50
3	[N-N=N-N]-linked fused triazoles with π - π stacking and hydrogen bonds: Towards thermally stable, insensitive, and highly energetic materials. <i>Chemical Engineering Journal</i> , 2021, 406, 126817.	12.7	43
4	Full-nitro-nitroamino cooperative action: Climbing the energy peak of benzenes with enhanced chemical stability. <i>Science Advances</i> , 2022, 8, eabn3176.	10.3	41
5	Dancing with 5-substituted monotetrazoles, oxygen-rich ions, and silver: towards primary explosives with positive oxygen balance and excellent energetic performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4611-4618.	10.3	38
6	3D-Cube Layer Stacking: A Promising Strategy for High-Performance Insensitive Energetic Materials. <i>Crystal Growth and Design</i> , 2017, 17, 6105-6110.	3.0	27
7	Alkali Metals-Based Energetic Coordination Polymers as Promising Primary Explosives: Crystal Structures, Energetic Properties, and Environmental Impact. <i>Chemistry - A European Journal</i> , 2018, 24, 14213-14219.	3.3	27
8	Tetracyclic pyrazine-fused furazans as insensitive energetic materials: syntheses, structures, and properties. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 8034-8037.	2.8	22
9	Nitramino-functionalized tetracyclic oxadiazoles as energetic materials with high performance and high stability: crystal structures and energetic properties. <i>CrystEngComm</i> , 2018, 20, 4321-4328.	2.6	22
10	Achieving Good Molecular Stability in Nitrogen-rich Salts Based on Polyamino Substituted Furazan-triazole. <i>Crystal Growth and Design</i> , 2020, 20, 6084-6092.	3.0	18
11	Energetic furazan-triazoles with high thermal stability and low sensitivity: facile synthesis, crystal structures and energetic properties. <i>CrystEngComm</i> , 2019, 21, 6093-6099.	2.6	15
12	Higher performing and less sensitive CN ₇ -based high-energy-density material. <i>Science China Materials</i> , 2020, 63, 1779-1787.	6.3	8
13	From mono-rings to bridged bi-rings to caged bi-rings: a promising design strategy for all-nitrogen high-energy-density materials N10 and N12. <i>New Journal of Chemistry</i> , 2021, 45, 6379-6385.	2.8	7
14	Modification of crystalline energetic salts through polymorphic transition: enhanced crystal density and energy performance. <i>CrystEngComm</i> , 2020, 22, 4130-4135.	2.6	6
15	Improving properties of energetic coordination polymers through structural modulation from 1D to 3D without changes of ligands or metal nodes. <i>CrystEngComm</i> , 2019, 21, 937-940.	2.6	3
16	All-nitrogen ion-based compounds as energetic oxidizers: a theoretical study on [N ₅ ⁺][NO ₃ ⁻], [N ₅ ⁺][N(NO ₂) ₂ ⁻], [NO ₂ ⁺][N ₅ ⁻] and NO ₂ ⁻ N ₃ . <i>New Journal of Chemistry</i> , 2020, 44, 11188-11195.	2.8	3
17	First Structural Characterization of Solvate-Free Silver 5-Nitrotetrazolate and its Comparison with other Energetic Silver Compounds in Structure and Property. <i>Propellants, Explosives, Pyrotechnics</i> , 2019, 44, 803-806.	1.6	2