Bisheng Tan

List of Publications by Year
in descending order

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28	353	933447 10	794594 19
papers	citations	h-index	g-index

28	28	28	347
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two important factors influencing shock sensitivity of nitro compounds: Bond dissociation energy of Xâ€“NO2 (X=C, N, O) and Mulliken charges of nitro group. Journal of Hazardous Materials, 2010, 183, 908-912.	12.4	67
2	Theoretical Investigation of Several 1,2,3,4â€Tetrazineâ€Based Highâ€Energy Compounds. Propellants, Explosives, Pyrotechnics, 2013, 38, 372-378.	1.6	35
3	The cage strain energies of high-energy compounds. Computational and Theoretical Chemistry, 2012, 993, 66-72.	2.5	34
4	Nitrogen-Rich Energetic Metal-Organic Framework: Synthesis, Structure, Properties, and Thermal Behaviors of Pb(II) Complex Based on N,N-Bis(1H-tetrazole-5-yl)-Amine. Materials, 2016, 9, 681.	2.9	33
5	On the Shock Sensitivity of Explosive Compounds with Small-Scale Gap Test. Journal of Physical Chemistry A, 2011, 115, 10610-10616.	2.5	32
6	From planes to cluster: The design of polynitrogen molecules. International Journal of Quantum Chemistry, 2015, 115, 84-89.	2.0	21
7	Ultraviolet Laser-induced ignition of RDX single crystal. Scientific Reports, 2016, 6, 20251.	3.3	20
8	Insight into shock-induced chemical reaction from the perspective of ring strain and rotation of chemical bonds. Journal of Molecular Modeling, 2012, 18, 5127-5132.	1.8	16
9	Synthesis, Crystal Structure, and Thermal Behavior of 3â€(4â€Aminofurazanâ€3â€yl)â€4â€(4â€nitrofurazanâ€3â€yl)furazan (ANTF). Propellants, Explosives, Pyrotechnics, 2016, 41, 906-911.	1.6	12
10	An important factor in relation to shock-induced chemistry: resonance energy. Journal of Molecular Modeling, 2012, 18, 583-589.	1.8	11
11	Insight into electrostatic initiation of nitramine explosives. Journal of Molecular Modeling, 2017, 23, 10.	1.8	10
12	Quantitative correlation between facets defects of RDX crystals and their laser sensitivity. Journal of Hazardous Materials, 2016, 313, 103-111.	12.4	9
13	Synthesis and characterization of a new energetic salt 1H-pyrazole-1-carboxamidine dinitramide and its thermal properties. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1431-1439.	3.6	9
14	Insight into a series of cage-like nitrogen oxides. Polyhedron, 2014, 79, 124-128.	2.2	6
15	Large Ï€-Ï€ separation energies of some energetic compounds. Chemical Physics, 2019, 520, 81-87.	1.9	6
16	Computational screening of several silicon-based high-energy hexanitrohexaazaisowurtzitane-like derivatives. Journal of Fluorine Chemistry, 2014, 158, 29-37.	1.7	5
17	Computational assessment of several hydrogen-free high energy compounds. Journal of Molecular Graphics and Modelling, 2016, 63, 85-90.	2.4	5
18	Building polynitrogen clusters with metalâ€“metal multiple bonds. Polyhedron, 2018, 156, 54-57.	2.2	5

#	Article	IF	Citations
19	Scratch defects modulated hot spots generation in laser irradiated RDX crystals: a 3D FDTD simulation. Journal of Materials Science, 2016, 51, 8812-8823.	3.7	4
20	Synthesis and Characterization of a New Energetic Salt based on Dinitramide. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2630-2636.	1.2	3
21	Electrostatic Balance Parameter Mediated Energy Functionsâ€Toward the Stability and Performance of Explosives. Propellants, Explosives, Pyrotechnics, 2021, 46, 1313-1323.	1.6	2
22	Construction strategies for high-nitrogen M8N60 complexes with high detonation heat and controllable stability. Polyhedron, 2021, 209, 115451.	2.2	2
23	Theoretical Calculation of Cocrystal Components for Explosives: A Similarity Function of Energetic Supramolecules. Crystal Growth and Design, 2022, 22, 293-303.	3.0	2
24	Defects-Induced Hot Spots in TATB. Advances in Condensed Matter Physics, 2014, 2014, 1-8.	1.1	1
25	Molecular polarizabilities of some energetic compounds. Journal of Molecular Modeling, 2021, 27, 51.	1.8	1
26	Theoretical prediction of decomposition temperature of typical heat-resistant explosives. Chemical Physics Impact, 2020, 1, 100005.	3.5	1
27	Controllable Sensitivity Mechanism in an Energetic Compound of [FeII(Rtrz)6] as a molecular switch. Chemical Physics Letters, 2022, , 139682.	2.6	1
28	Two Fox-7-Like High Energy Compounds. ChemistrySelect, 2017, 2, 8738-8744.	1.5	0