Guixiang Wang

List of Publications by Year
in descending order

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30	429	933447 10	713466 21
papers	citations	h-index	g-index

30	30	30	281
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theoretical investigations on the density, detonation performance and stability of fluorinated hexanitroadamantanes. Structural Chemistry, 2021, 32, 1651-1657.	2.0	0
2	Effect of 6â€thioguanine, as an electrolyte additive, on the electrochemical behavior of an Alâ€“air battery. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 1480-1487.	1.5	7
3	A Method Suitable for Predicting the Crystal Densities of Cyclic Organic Fluorides. ChemistrySelect, 2020, 5, 1837-1845.	1.5	1
4	The electrochemical behavior of Mgâ€“9Alâ€“0.5Zn, Mgâ€“9Alâ€“0.7Zn, and Mgâ€“9Alâ€“1.0Zn in a NaCl solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 2082-2087.	1.5	12
5	KMnO₄â€system etching process and electroless nickel plating on ABS. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 720-725.	1.5	8
6	Theoretical study on polyglycerine polynitrates for potential high-energy plasticizers of propellants. Canadian Journal of Chemistry, 2019, 97, 287-295.	1.1	0
7	High-pressure behavior and Hirshfeld surface analysis of nitrogen-rich materials: triazido-s-triazine (TAT) and triazido-s-heptazine (TAH). Journal of Materials Science, 2018, 53, 15977-15985.	3.7	6
8	High-Energy Nitramine Explosives: A Design Strategy from Linear to Cyclic to Caged Molecules. ACS Omega, 2018, 3, 9739-9745.	3.5	32
9	Density functional theory and molecular dynamic investigations on the energetic and mechanical properties of nitrocellulose/nitroglycerin/pentaerythritol diazido dinitrate composites. Polymer Composites, 2017, 38, 192-198.	4.6	6
10	Theoretical design and characterisation on the fluorinated nitrophenyl azidotriazoles. Molecular Simulation, 2017, 43, 183-188.	2.0	2
11	Structure, energetic performance, and decomposition mechanism of four azidoazoles. Structural Chemistry, 2015, 26, 1077-1082.	2.0	9
12	Exploring aliphatic nitro azides for plasticizers: a combined DFT and MD investigation. RSC Advances, 2015, 5, 12843-12848.	3.6	3
13	1H/2H and azide/tetrazole isomerizations and their effects on the aromaticity and stability of azido triazoles. RSC Advances, 2015, 5, 9503-9509.	3.6	12
14	An improved approach for predicting the density of azido compounds. Molecular Simulation, 2014, 40, 491-497.	2.0	5
15	A theoretical study on the stability and intramolecular interaction in 5-nitrotetrazolates with the DFT and DFT-D methods. Journal of Theoretical and Computational Chemistry, 2014, 13, 1450044.	1.8	1
16	A theoretical prediction of the molecular and electronic structures, thermodynamic properties, and stability of 1,3-diazido-2-methyl-2-nitropropane (DAMNP). Structural Chemistry, 2014, 25, 931-940.	2.0	11
17	Molecular dynamics and dissipative particle dynamics simulations of the miscibility and mechanical properties of GAP/DIANP blending systems. RSC Advances, 2014, 4, 41934-41941.	3.6	23
18	A theoretical study of 3,5-diazido-1,2,4-triazole: the role of the hydrogen bonding interaction in stabilizing the molecular system. Canadian Journal of Chemistry, 2014, 92, 896-903.	1.1	2

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19	Exploring highly energetic aliphatic azido nitramines for plasticizers. RSC Advances, 2014, 4, 53172-53179.	3.6	12
20	Theoretical studies on the structures, densities, detonation properties and thermal stability of 2,4,6-trinitropyridineN-oxide (TNPyO) and its derivatives. Molecular Simulation, 2013, 39, 123-128.	2.0	8
21	Theoretical study on the adduct of chlorine trifluoride oxide and boron trifluorideâ€"molecular and crystal structures, vibrational spectrum, and thermodynamic properties. International Journal of Quantum Chemistry, 2012, 112, 1291-1298.	2.0	3
22	Theoretical studies on the structures, densities, detonation properties and pyrolysis mechanism of energetic compounds containing pyridine ring. Structural Chemistry, 2012, 23, 479-486.	2.0	7
23	Substituent Effects on the Properties Related to Detonation Performance and Sensitivity for 2,2â€²,4,4â€²,6,6â€²-Hexanitroazobenzene Derivatives. Journal of Physical Chemistry A, 2011, 115, 1754-1762.	2.5	72
24	A theoretical investigation on the structures, densities, detonation properties and pyrolysis mechanism of the nitro derivatives of toluenes. Journal of Hazardous Materials, 2010, 177, 703-710.	12.4	50
25	A theoretical investigation on the structures, densities, detonation properties, and pyrolysis mechanism of the nitro derivatives of phenols. International Journal of Quantum Chemistry, 2010, 110, 1691-1701.	2.0	38
26	Theoretical Studies on the Infrared Vibrational Spectra, Thermodynamic Properties and Nuclear Magnetic Resonance Spectra for Polynitroâ€1,3â€bishomopentaprismanes. Chinese Journal of Chemistry, 2009, 27, 455-468.	4.9	3
27	A Theoretical Study on the Vibrational Spectra and Thermodynamic Properties for the Derivatives of HNS. Chinese Journal of Chemistry, 2009, 27, 687-696.	4.9	6
28	Theoretical Studies on the Structures, Stabilities, Vibrational Spectra, and Thermodynamic Properties of Polynitromethylbenzenes. Chinese Journal of Chemistry, 2009, 27, 1668-1674.	4.9	5
29	Looking for High Energy Density Compounds among 1,3-Bishomopentaprismane Derivatives with CN, NC, and ONO2 Groups. Journal of Physical Chemistry A, 2009, 113, 2607-2614.	2.5	37
30	Calculation of Detonation Velocity, Pressure, and Electric Sensitivity of Nitro Arenes Based on Quantum Chemistry. Propellants, Explosives, Pyrotechnics, 2006, 31, 361-368.	1.6	48