

Guixiang Wang

List of Publications by Year in descending order

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30
papers

429
citations

933447

10
h-index

713466

21
g-index

30
all docs

30
docs citations

30
times ranked

281
citing authors

#	ARTICLE	IF	CITATIONS
1	Substituent Effects on the Properties Related to Detonation Performance and Sensitivity for 2,2,4,4,6,6-Hexanitroazobenzene Derivatives. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1754-1762.	2.5	72
2	A theoretical investigation on the structures, densities, detonation properties and pyrolysis mechanism of the nitro derivatives of toluenes. <i>Journal of Hazardous Materials</i> , 2010, 177, 703-710.	12.4	50
3	Calculation of Detonation Velocity, Pressure, and Electric Sensitivity of Nitro Arenes Based on Quantum Chemistry. <i>Propellants, Explosives, Pyrotechnics</i> , 2006, 31, 361-368.	1.6	48
4	A theoretical investigation on the structures, densities, detonation properties, and pyrolysis mechanism of the nitro derivatives of phenols. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 1691-1701.	2.0	38
5	Looking for High Energy Density Compounds among 1,3-Bishomopentaprismane Derivatives with CN, NC, and ONO ₂ Groups. <i>Journal of Physical Chemistry A</i> , 2009, 113, 2607-2614.	2.5	37
6	High-Energy Nitramine Explosives: A Design Strategy from Linear to Cyclic to Caged Molecules. <i>ACS Omega</i> , 2018, 3, 9739-9745.	3.5	32
7	Molecular dynamics and dissipative particle dynamics simulations of the miscibility and mechanical properties of GAP/DIANP blending systems. <i>RSC Advances</i> , 2014, 4, 41934-41941.	3.6	23
8	Exploring highly energetic aliphatic azido nitramines for plasticizers. <i>RSC Advances</i> , 2014, 4, 53172-53179.	3.6	12
9	1H/2H and azide/tetrazole isomerizations and their effects on the aromaticity and stability of azido triazoles. <i>RSC Advances</i> , 2015, 5, 9503-9509.	3.6	12
10	The electrochemical behavior of Mg-Al-0.5Zn, Mg-Al-0.7Zn, and Mg-Al-1.0Zn in a NaCl solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 2082-2087.	1.5	12
11	A theoretical prediction of the molecular and electronic structures, thermodynamic properties, and stability of 1,3-diazido-2-methyl-2-nitropropane (DAMNP). <i>Structural Chemistry</i> , 2014, 25, 931-940.	2.0	11
12	Structure, energetic performance, and decomposition mechanism of four azidoazoles. <i>Structural Chemistry</i> , 2015, 26, 1077-1082.	2.0	9
13	Theoretical studies on the structures, densities, detonation properties and thermal stability of 2,4,6-trinitropyridineN-oxide (TNP ₃ O) and its derivatives. <i>Molecular Simulation</i> , 2013, 39, 123-128.	2.0	8
14	KMnO ₄ system etching process and electroless nickel plating on ABS. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 720-725.	1.5	8
15	Theoretical studies on the structures, densities, detonation properties and pyrolysis mechanism of energetic compounds containing pyridine ring. <i>Structural Chemistry</i> , 2012, 23, 479-486.	2.0	7
16	Effect of 6-thioguanine, as an electrolyte additive, on the electrochemical behavior of an Al-air battery. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 1480-1487.	1.5	7
17	A Theoretical Study on the Vibrational Spectra and Thermodynamic Properties for the Derivatives of HNS. <i>Chinese Journal of Chemistry</i> , 2009, 27, 687-696.	4.9	6
18	Density functional theory and molecular dynamic investigations on the energetic and mechanical properties of nitrocellulose/nitroglycerin/pentaerythritol diazido dinitrate composites. <i>Polymer Composites</i> , 2017, 38, 192-198.	4.6	6

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19	High-pressure behavior and Hirshfeld surface analysis of nitrogen-rich materials: triazido-s-triazine (TAT) and triazido-s-heptazine (TAH). <i>Journal of Materials Science</i> , 2018, 53, 15977-15985.	3.7	6
20	Theoretical Studies on the Structures, Stabilities, Vibrational Spectra, and Thermodynamic Properties of Polynitromethylbenzenes. <i>Chinese Journal of Chemistry</i> , 2009, 27, 1668-1674.	4.9	5
21	An improved approach for predicting the density of azido compounds. <i>Molecular Simulation</i> , 2014, 40, 491-497.	2.0	5
22	Theoretical Studies on the Infrared Vibrational Spectra, Thermodynamic Properties and Nuclear Magnetic Resonance Spectra for Polynitro-1,3,5-trisubstituted bishomopentaprismanes. <i>Chinese Journal of Chemistry</i> , 2009, 27, 455-468.	4.9	3
23	Theoretical study on the adduct of chlorine trifluoride oxide and boron trifluoride—molecular and crystal structures, vibrational spectrum, and thermodynamic properties. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 1291-1298.	2.0	3
24	Exploring aliphatic nitro azides for plasticizers: a combined DFT and MD investigation. <i>RSC Advances</i> , 2015, 5, 12843-12848.	3.6	3
25	A theoretical study of 3,5-diazido-1,2,4-triazole: the role of the hydrogen bonding interaction in stabilizing the molecular system. <i>Canadian Journal of Chemistry</i> , 2014, 92, 896-903.	1.1	2
26	Theoretical design and characterisation on the fluorinated nitrophenyl azidotriazoles. <i>Molecular Simulation</i> , 2017, 43, 183-188.	2.0	2
27	A theoretical study on the stability and intramolecular interaction in 5-nitrotetrazolates with the DFT and DFT-D methods. <i>Journal of Theoretical and Computational Chemistry</i> , 2014, 13, 1450044.	1.8	1
28	A Method Suitable for Predicting the Crystal Densities of Cyclic Organic Fluorides. <i>ChemistrySelect</i> , 2020, 5, 1837-1845.	1.5	1
29	Theoretical study on polyglycerine polynitrates for potential high-energy plasticizers of propellants. <i>Canadian Journal of Chemistry</i> , 2019, 97, 287-295.	1.1	0
30	Theoretical investigations on the density, detonation performance and stability of fluorinated hexanitroadamantanes. <i>Structural Chemistry</i> , 2021, 32, 1651-1657.	2.0	0