Bozhou Wang

List of Publications by Year
in descending order

37 papers	546 citations	623734 14 h-index	713466 21 g-index
37 all docs	37 docs citations	37 times ranked	291 citing authors

#	Article	IF	Citations
1	Accelerating the search of CHONF-containing highly energetic materials by combinatorial library design and high-throughput screening. Fuel, 2022, 310, 122241.	6.4	15
2	Multi-Level Structural Design Strategy toward Low-Sensitivity Energetic Materials: From Planar Molecule to Layered Packing Crystal. Crystal Growth and Design, 2022, 22, 1882-1891.	3.0	4
3	Methyl nitrate energetic compounds based on bicyclic scaffolds of furazanâ€“isofurazan (isoxazole): syntheses, crystal structures and detonation performances. RSC Advances, 2022, 12, 7712-7719.	3.6	3
4	Synthetic Strategies Toward Nitrogen-Rich Energetic Compounds Via the Reaction Characteristics of Cyanofurazan/Furoxan. Frontiers in Chemistry, 2022, 10, 871684.	3.6	10
5	Comparative Research on Promising Energetic 1,3-Diazinane and 1,3-Oxazinane Structures. Arabian Journal of Chemistry, 2022, , 103947.	4.9	0
6	Transferring the available fused cyclic scaffolds for highâ€”throughput combinatorial design of highly energetic materials via database mining. Fuel, 2022, 324, 124591.	6.4	14
7	Molecular-Shape-Dominated Crystal Packing Features of Energetic Materials. Crystal Growth and Design, 2021, 21, 1540-1547.	3.0	22
8	Can N-oxidation alleviate the energy-safety contradiction of energetic materials?. FirePhysChem, 2021, 1, 27-32.	3.4	15
9	Comparative thermal research on chlorodinitromethyl and fluorodinitromethyl explosophoric groups based insensitive energetic materials. FirePhysChem, 2021, 1, 54-60.	3.4	8
10	Graphite-like Packing Modes Facilitating High Thermal Stability: A Comparative Study in the Polymorphs of Planar Energetic Molecules. Crystal Growth and Design, 2021, 21, 3175-3178.	3.0	11
11	<scp>Intraâ€Ring</scp> Bridging: A Strategy for Molecular Design of Highly Energetic Nitramines. Chinese Journal of Chemistry, 2021, 39, 2857-2864.	4.9	6
12	Synthesis and properties of azamonocyclic energetic materials with geminal explosophores. Dalton Transactions, 2021, 50, 8338-8348.	3.3	3
13	Synthetic and thermal studies of four insensitive energetic materials based on oxidation of the melamine structure. RSC Advances, 2021, 11, 288-295.	3.6	9
14	Accelerating Molecular Design of Cage Energetic Materials with Zero Oxygen Balance through Large-Scale Database Search. Journal of Physical Chemistry Letters, 2021, 12, 11591-11597.	4.6	23
15	Thermal studies of novel molecular perovskite energetic material (C6H14N2)[NH4(ClO4)3]. Chinese Chemical Letters, 2020, 31, 554-558.	9.0	54
16	Exploring the highly dense energetic materials via regiochemical modulation: A comparative study of two fluorodinitromethyl-functionalized herringbone trifuroxans. Chemical Engineering Journal, 2020, 391, 123573.	12.7	28
17	A promising TNT alternative 3,3â€²-bi(1,2,4-oxadiazole)-5,5â€²-diylbis(methylene)dinitrate (BOM): thermal behaviors and eutectic characteristics. RSC Advances, 2020, 10, 26425-26432.	3.6	8
18	Balancing good oxygen balance and high heat of formation by incorporating of -C(NO2)2F Moiety and Tetrazole into Furoxan block. Journal of Molecular Structure, 2020, 1222, 128934.	3.6	10

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19	Analysis of intermolecular interactions in homologous molecular crystals of energetic materials. Energetic Materials Frontiers, 2020, 1, 95-102.	3.2	12
20	Screening for energetic compounds based on 1,3-dinitrohexahydropyrimidine skeleton and 5-various explosopheres: molecular design and computational study. Scientific Reports, 2020, 10, 18292.	3.3	12
21	A comparative study of the structures, thermal stabilities and energetic performances of two energetic regioisomers: 3(4)-(4-aminofurazan-3-yl)-4(3)-(4-nitrofurazan-3-yl)furoxan. RSC Advances, 2020, 10, 31800-31807.	3.6	4
22	3,4-Bis(3-tetrazolylfuroxan-4-yl)furoxan: A Linear Câ€“C Bonded Pentaheterocyclic Energetic Material with High Heat of Formation and Superior Performance. ACS Omega, 2020, 5, 11115-11122.	3.5	7
23	A promising insensitive energetic material based on a fluorodinitromethyl explosophore group and 1,2,3,4-tetrahydro-1,3,5-triazine: synthesis, crystal structure and performance. RSC Advances, 2020, 10, 11816-11822.	3.6	10
24	Highly Thermostable Insensitive Energetic Polynitrophenyl-Substituted Furazan (Furoxan)-Annelated Azepines. ACS Applied Energy Materials, 2020, 3, 7129-7137.	5.1	11
25	A combined experimental and theoretical study of the thermal decomposition mechanism and kinetics of ammonium dinitramide (ADN). New Journal of Chemistry, 2020, 44, 6833-6844.	2.8	9
26	The Ingenious Synthesis of a Nitro-Free Insensitive High-Energy Material Featuring Face-to-Face and Edge-to-Face Ï€-Interactions. Frontiers in Chemistry, 2019, 7, 559.	3.6	15
27	Synthesis, Characterization and Performance of Promising Energetic Materials Based on 1,3â€Oxazinane. ChemPlusChem, 2019, 84, 913-918.	2.8	8
28	New Strategy for Enhancing Energetic Properties by Regulating Trifuroxan Configuration: 3,4-Bis(3-nitrofuroxan-4-yl)furoxan. Scientific Reports, 2019, 9, 4321.	3.3	35
29	Effect of Fluoro Substituents on Polynitroarylenes: Design, Synthesis and Theoretical Studies of Fluorinated Nitrotoluenes. ChemPlusChem, 2019, 84, 92-97.	2.8	8
30	Research on the thermal behavior of novel heat resistance explosive 5,5â€²-bis(2,4,6-trinitrophenyl)-2,2â€²-bi(1,3,4-oxadiazole). Journal of Analytical and Applied Pyrolysis, 2018, 129, 189-194.	5.5	20
31	An Efficient Method of Preparation and Comprehensive Properties for Energetic Salts Based on Nitrofurazanâ€Functionalized Hydroxytetrazoles. ChemistrySelect, 2018, 3, 11835-11841.	1.5	7
32	A good balance between the energy density and sensitivity from assembly of bis(dinitromethyl) and bis(fluorodinitromethyl) with a single furazan ring. Journal of Analytical and Applied Pyrolysis, 2018, 134, 218-230.	5.5	15
33	Synthesis, structure and properties of neutral energetic materials based on N-functionalization of 3,6-dinitropyrazolo[4,3-c]pyrazole. RSC Advances, 2016, 6, 84760-84768.	3.6	25
34	High Energy Density Materials Incorporating 4,5â€Bis(dinitromethyl)â€Furoxanate and 4,5â€Bis(dinitromethyl)â€3â€Oxyâ€Furoxanate. ChemPlusChem, 2016, 81, 1156-1159.	2.8	23
35	A New Synthetic Route for 3,3â€²-Bis(fluorodinitromethyl)difurazanyl Ether (FOF-13) and Its Energetic Properties. Journal of Energetic Materials, 2016, 34, 92-102.	2.0	22
36	A green high-initiation-power primary explosive: synthesis, 3D structure and energetic properties of dipotassium 3,4-bis(3-dinitromethylfurazan-4-oxy)furazan. RSC Advances, 2015, 5, 57833-57841.	3.6	52

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37	Synthesis and Characterization of 7H-Trifurazano-[3,4-b:3',4'-f:3",4"-d]azepine and Its Analogues. Chinese Journal of Organic Chemistry, 2015, 35, 851.	1.3	8