

# Wenquan Zhang

## List of Publications by Year in descending order

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23  
papers

731  
citations

623734

14  
h-index

642732

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

454  
citing authors

#	ARTICLE	IF	CITATIONS
1	A green metal-free fused-ring initiating substance. <i>Nature Communications</i> , 2019, 10, 1339.	12.8	144
2	Stabilization of the Pentazolate Anion in a Zeolitic Architecture with Na <sub>20</sub> N <sub>60</sub> and Na <sub>24</sub> N <sub>60</sub> Nanocages. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2592-2595.	13.8	100
3	Synthesis of Thermally Stable and Insensitive Energetic Materials by Incorporating the Tetrazole Functionality into a Fused-Ring 3,6-Dinitropyrazolo-[4,3- <i>c</i> ]Pyrazole Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45914-45921.	8.0	58
4	Bis(borano)hypophosphite-based ionic liquids as ultrafast-igniting hypergolic fuels. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8978-8982.	10.3	46
5	[1,2,4]Triazolo[4,3- <i>b</i> ]pyridazine as a building block towards low-sensitivity high-energy materials. <i>Chemical Engineering Journal</i> , 2021, 421, 129635.	12.7	42
6	A promising hydrogen peroxide adduct of ammonium cyclopentazolate as a green propellant component. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12334-12338.	10.3	41
7	Towards Safer Rocket Fuels: Hypergolic Imidazolylidene-Borane Compounds as Replacements for Hydrazine Derivatives. <i>Chemistry - A European Journal</i> , 2016, 22, 10187-10193.	3.3	39
8	Exploring Sustainable Rocket Fuels: [Imidazolyl <sup>+</sup> Amine <sup>-</sup> BH <sub>2</sub> ] <sup>+</sup> Cation-Based Ionic Liquids as Replacements for Toxic Hydrazine Derivatives. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2725-2732.	3.3	38
9	Super-base-derived hypergolic ionic fuels with remarkably improved thermal stability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20664-20672.	10.3	34
10	[LiNa(N <sub>5</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ·H <sub>2</sub> O]: a novel heterometallic cyclo- $\{N_5\}_5$ framework with helical chains. <i>Science China Materials</i> , 2019, 62, 283-288.	6.3	29
11	Nitrato-Functionalized Task-Specific Ionic Liquids as Attractive Hypergolic Rocket Fuels. <i>Chemistry - A European Journal</i> , 2017, 23, 12502-12509.	3.3	27
12	Construction of Bicyclic 1,2,3-Triazine <i>N</i> -Oxides from Aminocyanides. <i>Organic Letters</i> , 2021, 23, 734-738.	4.6	27
13	Synthesis and Properties of Triaminocyclopropenium Cation Based Ionic Liquids as Hypergolic Fluids. <i>Chemistry - A European Journal</i> , 2018, 24, 4620-4627.	3.3	20
14	Synthesis and hypergolic properties of flammable ionic liquids based on the cyano (1- <i>H</i> -1,2,3-triazole-1-yl) dihydroborate anion. <i>Dalton Transactions</i> , 2019, 48, 6198-6204.	3.3	18
15	Simple reaction to prepare a heat-resistant and insensitive explosive (2-nitro-[1,2,4]triazolo[1,5- <i>a</i> ][1,3,5]triazine-5,7-diamine) and its derivatives. <i>Chemical Engineering Journal</i> , 2022, 432, 134297.	12.7	13
16	A three-component reaction of phosphorus ylides with isocyanates: facile synthesis of 2-amino-3-carboxylate-4-quinolones. <i>Chemical Communications</i> , 2020, 56, 5909-5912.	4.1	11
17	A pentazolate-based bowl-shaped molecular container. <i>Dalton Transactions</i> , 2020, 49, 17542-17546.	3.3	10
18	Structural Analysis and Controllable Fabrication of Two Pentazolate-Based 3D Topological Networks. <i>Inorganic Chemistry</i> , 2021, 60, 8409-8413.	4.0	8

#	ARTICLE	IF	CITATIONS
19	New Insight into the Aromaticity of <i>cyclo</i> -N <sub>5</sub> <sup>+</sup> by Constructing 3D Arrays in Crystal Structures. <i>Crystal Growth and Design</i> , 2021, 21, 33-39.	3.0	7
20	Recent advances in synthesis and crystal structures of metal pentazolate salts. <i>CrystEngComm</i> , 2021, 23, 5551-5559.	2.6	6
21	Recent advances in hypergolic ionic liquids with broad potential for propellant applications. <i>FirePhysChem</i> , 2022, 2, 236-252.	3.4	6
22	From heart drug to propellant fuels: Designing nitroglycerin-ionic liquid composite as green high-energy hypergolic fluids. <i>Combustion and Flame</i> , 2021, 233, 111597.	5.2	4
23	Multicomponent benzannulation of allylic P-ylides with isocyanates or aldehydes for construction of anilines and biaryls. <i>Chemical Communications</i> , 2020, 56, 8865-8868.	4.1	3