

Kangcai Wang

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,263
citations

361413

20
h-index

361022

35
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38
all docs

38
docs citations

38
times ranked

1019
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerating the discovery of insensitive high-energy-density materials by a materials genome approach. <i>Nature Communications</i> , 2018, 9, 2444.	12.8	245
2	Stabilization of the Pentazolate Anion in a Zeolitic Architecture with Na ₂₀ N ₆₀ and Na ₂₄ N ₆₀ Nanocages. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2592-2595.	13.8	100
3	A luminescent heterometallic metal-organic framework for the naked-eye discrimination of nitroaromatic explosives. <i>Chemical Communications</i> , 2017, 53, 10318-10321.	4.1	78
4	Hunting for advanced high-energy-density materials with well-balanced energy and safety through an energetic host-guest inclusion strategy. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19248-19257.	10.3	69
5	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 & Interfaces</i> , 2019, 11, 45914-45921.	8.0	58
6	Construction of a Thermally Stable and Highly Energetic Metal-Organic Framework as Lead-Free Primary Explosives. <i>Crystal Growth and Design</i> , 2018, 18, 1896-1902.	3.0	53
7	Melamine N-oxide based self-assembled energetic materials with balanced energy & sensitivity and enhanced combustion behavior. <i>Chemical Engineering Journal</i> , 2020, 395, 125114.	12.7	48
8	Iodocuprate-containing ionic liquids as promoters for green propulsion. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22819-22829.	10.3	44
9	Effects of closo-icosahedral periodoborane salts on hypergolic reactions of 70% H ₂ O ₂ with energetic ionic liquids. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19989-19997.	10.3	43
10	Self-Assembly of Nitrogen-Rich Heterocyclic Compounds with Oxidants for the Development of High-Energy Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28390-28397.	8.0	38
11	Accelerating the discovery of energetic melt-castable materials by a high-throughput virtual screening and experimental approach. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21723-21731.	10.3	37
12	Supramolecular Templating Approach for the Solvent-Free Synthesis of Open-Framework Metal Oxalates. <i>Inorganic Chemistry</i> , 2016, 55, 7817-7819.	4.0	32
13	Revisiting the reactive chemistry of FOX-7: cyclization of FOX-7 affords the fused-ring polynitro compounds. <i>Chemical Communications</i> , 2019, 55, 3497-3500.	4.1	31
14	[LiNa(N ₅) ₂ (H ₂ O) ₄] \cdot H ₂ O: a novel heterometallic cyclo- $\{N_5\}$ framework with helical chains. <i>Science China Materials</i> , 2019, 62, 283-288.	6.3	29
15	Exploration of new water stable proton-conducting materials in an amino acid-templated metal phosphate system. <i>Dalton Transactions</i> , 2018, 47, 654-658.	3.3	26
16	Decoding the crystal engineering of graphite-like energetic materials: from theoretical prediction to experimental verification. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5975-5985.	10.3	26
17	Ionothermal Synthesis of Open-Framework Metal Phosphates Using a Multifunctional Ionic Liquid. <i>Inorganic Chemistry</i> , 2018, 57, 8726-8729.	4.0	25
18	Towards Alkylimidazole Borane-based Hypergolic Fuels. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3528-3533.	3.3	21

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19	Heterometallic Hybrid Open Frameworks: Synthesis and Application for Selective Detection of Nitro Explosives. <i>Crystal Growth and Design</i> , 2017, 17, 1836-1842.	3.0	21
20	“Tandem-action” ferrocenyl iodocuprates promoting low temperature hypergolic ignitions of “green” H_2O_2 bipropellants. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14661-14670.	10.3	21
21	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
22	Amine-Ligated Approach for the Synthesis of Extra-Large-Pore Zinc Phosphites with qtz-h and bnn Topologies. <i>Inorganic Chemistry</i> , 2016, 55, 3727-3729.	4.0	19
23	Fluorescent heterometallic MOFs: tunable framework charges and application for explosives detection. <i>CrystEngComm</i> , 2016, 18, 8301-8308.	2.6	19
24	Fabrication of protonated $\text{g-C}_3\text{N}_4$ nanosheets as promising proton conductive materials. <i>Chemical Communications</i> , 2019, 55, 7414-7417.	4.1	18
25	Microporous Metal-Organic Frameworks Based on Zinc Clusters and Their Fluorescence Enhancements towards Acetone and Chloroform. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3411-3416.	2.0	17
26	Synthesis and Properties of 3,6-Dinitropyrazolo[4,3-c]pyrazole (DNPP) Derivatives. <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 546-553.	1.6	17
27	New open-framework cobalt sulfate-oxalates based on molecular and chain-like building blocks. <i>Dalton Transactions</i> , 2014, 43, 13476-13479.	3.3	16
28	Construction of hydrothermally stable beryllium phosphite open-frameworks with high proton conductivity. <i>CrystEngComm</i> , 2017, 19, 3997-4002.	2.6	13
29	Hydride- and boron-free solid hypergolic H_2O_2 -ignitophores. <i>Chemical Engineering Journal</i> , 2021, 426, 131806.	12.7	13
30	Open-framework beryllium phosphates with a zeolitic CrB4 topology and their structural analogues containing 12-ring channels. <i>CrystEngComm</i> , 2015, 17, 2162-2167.	2.6	12
31	Hunting for Energetic Complexes as Hypergolic Promoters for Green Propellants Using Hydrogen Peroxide as Oxidizer. <i>Inorganic Chemistry</i> , 2021, 60, 17033-17039.	4.0	11
32	In Situ Encapsulation of Imidazolium Proton Carriers in Anionic Open Frameworks Leads the Way to Proton-Conducting Materials. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2295-2300.	2.0	10
33	Synthesis of 5/6/5-fused tricyclic-cation-based cyclo- N_5^+ salt with high density and heat of formation. <i>Energetic Materials Frontiers</i> , 2020, 1, 172-177.	3.2	9
34	Unearthing hidden hypergolic potential of energetic complexes with hydrogen peroxide. <i>Combustion and Flame</i> , 2022, 244, 112235.	5.2	9
35	Structural Analysis and Controllable Fabrication of Two Pentazolate-Based 3D Topological Networks. <i>Inorganic Chemistry</i> , 2021, 60, 8409-8413.	4.0	8
36	Open-Framework Beryllium Hydrogen Phosphates with (3,4)-Connected Networks. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2025-2028.	2.0	4

#	ARTICLE	IF	CITATIONS
37	Two open-framework zinc phosphites constructed from different secondary building units. <i>Inorganic Chemistry Communication</i> , 2016, 72, 96-99.	3.9	2
38	Energetic complexes as promoters for the green hypergolic bipropellant of EIL-H ₂ O ₂ combinations. <i>FirePhysChem</i> , 2021, , .	3.4	1