

Xiaomeng Zhou

List of Publications by Year in descending order

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papers

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citations

840776

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26
all docs

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docs citations

26
times ranked

277
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical Studies on the Electronic and Optical Properties of Honeycomb BC ₃ monolayer: A Promising Candidate for Metal-free Photocatalysts. ACS Omega, 2018, 3, 10517-10525.	3.5	50
2	Point Defect Effects on Photoelectronic Properties of the Potential Metal-Free C ₂ N Photocatalysts: Insight from First-Principles Computations. Journal of Physical Chemistry C, 2018, 122, 5291-5302.	3.1	47
3	The study of thermal decomposition of 2-bromo-3,3,3-trifluoropropene and its fire-extinguishing mechanism. Journal of Fluorine Chemistry, 2013, 153, 101-106.	1.7	35
4	Template-Regulated Bimetallic Sulfide Nanozymes with High Specificity and Activity for Visual Colorimetric Detection of Cellular H ₂ O ₂ . ACS Applied Materials & Interfaces, 2021, 13, 53599-53609.	8.0	28
5	Composites of Layered Double Hydroxide Nanosheets, Hydroxy-Functionalized Carbon Nanotubes, and Hydroxyapatite Nanoparticles as Flame Retardants for Epoxy Resins. ACS Applied Nano Materials, 2021, 4, 11753-11762.	5.0	25
6	Isoelectronic analogues of graphene: the BCN monolayers with visible-light absorption and high carrier mobility. Journal of Physics Condensed Matter, 2019, 31, 125301.	1.8	22
7	A MOF-derived multifunctional nano-porous fluorinated carbon for high performance lithium/fluorinated carbon primary batteries. Microporous and Mesoporous Materials, 2021, 310, 110650.	4.4	21
8	B ₄ C ₃ Monolayer with Impressive Electronic, Optical, and Mechanical Properties: A Potential Metal-Free Photocatalyst for CO ₂ Reduction under Visible Light. Journal of Physical Chemistry C, 2019, 123, 25091-25101.	3.1	19
9	Suppression of propane cup-burner flame with HFO-1336mzz(Z) and its thermal stability study. Thermochimica Acta, 2020, 683, 178463.	2.7	17
10	A liquid cooling technology based on fluorocarbons for lithium-ion battery thermal safety. Journal of Loss Prevention in the Process Industries, 2022, 78, 104818.	3.3	17
11	Comparative Study on the Flame Retardancy and Retarding Mechanism of Rare Earth (La, Ce, and Tj) ETQq1 1 0.784314 rgBT/Overlook	3.5	14
12	Experimental and theoretical studies on the thermal decomposition of 1,1,2,2,3,3,4-heptafluorocyclopentane. Journal of Fluorine Chemistry, 2014, 164, 70-77.	1.7	11
13	Polyimide aerogels using melamine as an economical yet effective crosslinker. Journal of Porous Materials, 2021, 28, 1155-1165.	2.6	11
14	Theoretical and experimental insights into the effects of halogen composition on the thermal decomposition details, as well as the fire-suppressing mechanism and performance of CF ₃ CX ₂ (X = F, Cl, Br). Physical Chemistry Chemical Physics, 2021, 23, 11411-11423.	2.8	10
15	Comprehensive Theoretical and Experimental Studies on the CF ₃ H Fire-extinguishing Mechanism. Chinese Journal of Chemistry, 2011, 29, 1335-1350.	4.9	9
16	Theoretical Studies on the Reactions of 1,1,2,2,3,3,4-Heptafluorocyclopentane with Hydroxyl and Hydrogen Free Radicals. Chinese Journal of Chemistry, 2014, 32, 897-908.	4.9	9
17	A Strategy for the Synthesis of 1,2-Dichlorotetrafluorocyclobutene from Hexachlorobutadiene and Its Reaction Pathway. Industrial & Engineering Chemistry Research, 2017, 56, 7623-7630.	3.7	9
18	Toward Better Halon Substitutes: Theoretical and Experimental Studies on the Pyrolysis Mechanism and Fire-Suppressing Performance of C ₅ F ₁₀ O (Perfluoro-3-methyl-2-butanone). ACS Sustainable Chemistry and Engineering, 2021, 9, 1272-1285.	6.7	9

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19	From metal-organic framework to morphology- and size-controlled 3D mesoporous Cr ₂ O ₃ toward a high surface area and enhanced volatile organic compound oxidation catalyst. RSC Advances, 2019, 9, 10865-10869.	3.6	8
20	Melamine-Crosslinked Polyimide Aerogels from Supercritical Ethanol Drying with Improved In-Use Shape Stability Against Shrinking. Macromolecular Materials and Engineering, 2022, 307, 2100645.	3.6	6
21	Metal-Organic Framework-Derived Strategy for Improving Catalytic Performance of a Chromia-Based Catalyst in the Chlorine/Fluorine Exchange Reactions for Unsaturated Fluorocarbons. ACS Omega, 2020, 5, 13115-13122.	3.5	5
22	Effects of water mist addition on kerosene pool fire. Science Bulletin, 2008, 53, 3240-3246.	9.0	3
23	A novel strategy for synthesis of dichlorooctafluorocyclopentane and reaction mechanism investigation. Journal of Fluorine Chemistry, 2016, 186, 33-39.	1.7	3
24	Poly (m-phenylene isophthalamide)/graphene composite aerogels with enhanced compressive shape stability for thermal insulation. Journal of Sol-Gel Science and Technology, 2020, 96, 370-381.	2.4	3
25	Study on the Preparation of Cr-based Catalysts Doped by Zn using Sol-Gel Auto-Combustion Method and Its Application for Synthesis of 1-Chloro-2,3,3,4,4,5,5-heptafluorocyclopentene. Journal of the Chinese Chemical Society, 2017, 64, 1128-1138.	1.4	2
26	Be ₃ BN ₃ monolayer with ultrawide band gap and promising stability for deep ultraviolet applications. Computational Materials Science, 2020, 177, 109552.	3.0	1