Xiaomeng Zhou

List of Publications by Year
in descending order

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26	394	840776 11	794594 19
papers	citations	h-index	g-index

26	26	26	277
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Melamineâ€Crosslinked Polyimide Aerogels from Supercritical Ethanol Drying with Improved Inâ€Use Shape Stability Against Shrinking. Macromolecular Materials and Engineering, 2022, 307, 2100645.	3.6	6
2	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
3	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
4	Polyimide aerogels using melamine as an economical yet effective crosslinker. Journal of Porous Materials, 2021, 28, 1155-1165.	2.6	11
5	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 CF₃CXî€CH₂ (X = F, Cl, Br). Physical Chemistry Chemical Physics, 2021, 23, 11411-11423.	2.8	10
6	Toward Better Halon Substitutes: Theoretical and Experimental Studies on the Pyrolysis Mechanism and Fire-Suppressing Performance of C₅F₁₀O (Perfluoro-3-methyl-2-butanone). ACS Sustainable Chemistry and Engineering, 2021, 9, 1272-1285.	6.7	9
7	Template-Regulated Bimetallic Sulfide Nanozymes with High Specificity and Activity for Visual Colorimetric Detection of Cellular H₂O₂. ACS Applied Materials & Interfaces, 2021, 13, 53599-53609.	8.0	28
8	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
9	Comparative Study on the Flame Retardancy and Retarding Mechanism of Rare Earth (La, Ce, and) Tj ETQq1 1 0.784314 rgBT /Overlock	3.5	14
10	Suppression of propane cup-burner flame with HFO-1336mzz(Z) and its thermal stability study. Thermochimica Acta, 2020, 683, 178463.	2.7	17
11	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
12	Metalâ€“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
13	Be3BN3 monolayer with ultrawide band gap and promising stability for deep ultraviolet applications. Computational Materials Science, 2020, 177, 109552.	3.0	1
14	B₄C₃ Monolayer with Impressive Electronic, Optical, and Mechanical Properties: A Potential Metal-Free Photocatalyst for CO₂ Reduction under Visible Light. Journal of Physical Chemistry C, 2019, 123, 25091-25101.	3.1	19
15	From metalâ€“organic framework to morphology- and size-controlled 3D mesoporous Cr2O3 toward a high surface area and enhanced volatile organic compound oxidation catalyst. RSC Advances, 2019, 9, 10865-10869.	3.6	8
16	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
17	Point Defect Effects on Photoelectronic Properties of the Potential Metal-Free C₂N Photocatalysts: Insight from First-Principles Computations. Journal of Physical Chemistry C, 2018, 122, 5291-5302.	3.1	47
18	Theoretical Studies on the Electronic and Optical Properties of Honeycomb BC₃ monolayer: A Promising Candidate for Metal-free Photocatalysts. ACS Omega, 2018, 3, 10517-10525.	3.5	50

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19	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
20	Study on the Preparation of Crâ€based Catalysts Doped by Zn using Solâ€“Gel Autoâ€Combustion Method and Its Application for Synthesis of 1â€Chloroâ€2,3,3,4,4,5,5â€heptafluorocyclopentene. Journal of the Chinese Chemical Society, 2017, 64, 1128-1138.	1.4	2
21	A novel strategy for synthesis of dichlorooctafluorocyclopentane and reaction mechanism investigation. Journal of Fluorine Chemistry, 2016, 186, 33-39.	1.7	3
22	Theoretical Studies on the Reactions of 1,1,2,2,3,3,4â€Heptafluorocyclopentane with Hydroxyl and Hydrogen Free Radicals. Chinese Journal of Chemistry, 2014, 32, 897-908.	4.9	9
23	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
24	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
25	Comprehensive Theoretical and Experimental Studies on the CF₃H Fireâ€extinguishing Mechanism. Chinese Journal of Chemistry, 2011, 29, 1335-1350.	4.9	9
26	Effects of water mist addition on kerosene pool fire. Science Bulletin, 2008, 53, 3240-3246.	9.0	3