

Xiaodong Shen

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,208
citations

430442

18
h-index

713013

21
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21
all docs

21
docs citations

21
times ranked

1064
citing authors

#	ARTICLE	IF	CITATIONS
1	Freeze Casting: From Low-Dimensional Building Blocks to Aligned Porous Structures—A Review of Novel Materials, Methods, and Applications. <i>Advanced Materials</i> , 2020, 32, e1907176.	11.1	404
2	Enhanced Ferromagnetism and Tunable Magnetism in Fe ₃ GeTe ₂ Monolayer by Strain Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26367-26373.	4.0	83
3	A novel building material with low thermal conductivity: Rapid synthesis of foam concrete reinforced silica aerogel and energy performance simulation. <i>Energy and Buildings</i> , 2018, 177, 385-393.	3.1	77
4	Dynamic capture of low-concentration CO ₂ on amine hybrid silsesquioxane aerogel. <i>Chemical Engineering Journal</i> , 2016, 283, 1059-1068.	6.6	72
5	A novel low-cost method of silica aerogel fabrication using fly ash and trona ore with ambient pressure drying technique. <i>Powder Technology</i> , 2018, 323, 310-322.	2.1	66
6	Polymer-Derived SiOC Integrated with a Graphene Aerogel As a Highly Stable Li-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46045-46056.	4.0	66
7	Facile synthesis of an amine hybrid aerogel with high adsorption efficiency and regenerability for air capture via a solvothermal-assisted sol-gel process and supercritical drying. <i>Green Chemistry</i> , 2015, 17, 3436-3445.	4.6	47
8	Thermal and Mechanical Performances of the Superflexible, Hydrophobic, Silica-Based Aerogel for Thermal Insulation at Ultralow Temperature. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21286-21298.	4.0	46
9	Form-stable phase change material embedded in three-dimensional reduced graphene aerogel with large latent heat for thermal energy management. <i>Applied Surface Science</i> , 2020, 534, 147612.	3.1	42
10	Amine hybrid zirconia/silica composite aerogel for low-concentration CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2016, 236, 269-276.	2.2	37
11	Silica aerogels formed from soluble silicates and methyl trimethoxysilane (MTMS) using CO ₂ gas as a gelation agent. <i>Ceramics International</i> , 2018, 44, 821-829.	2.3	35
12	Synthesis and textural evolution of mesoporous Si ₃ N ₄ aerogel with high specific surface area and excellent thermal insulation property via the urea assisted sol-gel technique. <i>Chemical Engineering Journal</i> , 2020, 382, 122880.	6.6	35
13	Facile synthesis of flexible and hydrophobic polymethylsilsesquioxane based silica aerogel via the co-precursor method and ambient pressure drying technique. <i>Journal of Non-Crystalline Solids</i> , 2020, 530, 119826.	1.5	34
14	Enhancing Ferromagnetism and Tuning Electronic Properties of CrI ₃ Monolayers by Adsorption of Transition-Metal Atoms. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21593-21601.	4.0	30
15	Chemical Surface Adsorption and Trace Detection of Alcohol Gas in Graphene Oxide-Based Acid-Etched SnO ₂ Aerogels. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20467-20478.	4.0	29
16	1T phase as an efficient hole injection layer to TMDs transistors: a universal approach to achieve p-type contacts. <i>2D Materials</i> , 2018, 5, 031012.	2.0	27
17	A promising form-stable phase change material composed of C/SiO ₂ aerogel and palmitic acid with large latent heat as short-term thermal insulation. <i>Energy</i> , 2020, 210, 118478.	4.5	25
18	Monolithic silicon nitride-based aerogels with large specific surface area and low thermal conductivity. <i>Ceramics International</i> , 2019, 45, 16331-16337.	2.3	21

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19	NO ₂ detection and redox capacitance reaction of Ag doped SnO ₂ /rGO aerogel at room temperature. Journal of Alloys and Compounds, 2021, 886, 161287.	2.8	13
20	Synthesis of bulk BaTiO ₃ aerogel and characterization of photocatalytic properties. Journal of Sol-Gel Science and Technology, 2019, 90, 313-322.	1.1	12
21	Facile preparation of nano-SiO ₂ composites with excellent high-temperature thermal insulation performance. Ceramics International, 2022, 48, 27486-27492.	2.3	7