

Gaofeng Shao

List of Publications by Year in descending order

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28
papers

1,538
citations

394421

19
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501196

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docs citations

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times ranked

1150
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.	21.0	404
2	Design of cellular structure of graphene aerogels for electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2021, 426, 131894.	12.7	134
3	Synthesis of a novel Al ₂ O ₃ -SiO ₂ composite aerogel with high specific surface area at elevated temperatures using inexpensive inorganic salt of aluminum. <i>Ceramics International</i> , 2016, 42, 874-882.	4.8	115
4	Ultralight Magnetic and Dielectric Aerogels Achieved by Metal-Organic Framework Initiated Gelation of Graphene Oxide for Enhanced Microwave Absorption. <i>Nano-Micro Letters</i> , 2022, 14, 107.	27.0	110
5	Thermal shock behavior and infrared radiation property of integrative insulations consisting of MoSi ₂ /borosilicate glass coating and fibrous ZrO ₂ ceramic substrate. <i>Surface and Coatings Technology</i> , 2015, 270, 154-163.	4.8	92
6	Novel Al ₂ O ₃ -SiO ₂ composite aerogels with high specific surface area at elevated temperatures with different alumina/silica molar ratios prepared by a non-alkoxide sol-gel method. <i>RSC Advances</i> , 2016, 6, 5611-5620.	3.6	85
7	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.	8.0	66
8	Evolution of the novel C/SiO ₂ /SiC ternary aerogel with high specific surface area and improved oxidation resistance. <i>Chemical Engineering Journal</i> , 2017, 330, 1022-1034.	12.7	63
9	Facile preparation of cross-linked polyimide aerogels with carboxylic functionalization for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2017, 322, 1-9.	12.7	59
10	High emissivity MoSi ₂ -ZrO ₂ -borosilicate glass multiphase coating with SiB ₆ addition for fibrous ZrO ₂ ceramic. <i>Ceramics International</i> , 2016, 42, 8140-8150.	4.8	41
11	On-chip assembly of 3D graphene-based aerogels for chemiresistive gas sensing. <i>Chemical Communications</i> , 2020, 56, 450-453.	4.1	39
12	Microstructure, radiative property and thermal shock behavior of TaSi ₂ -SiO ₂ -borosilicate glass coating for fibrous ZrO ₂ ceramic insulation. <i>Journal of Alloys and Compounds</i> , 2016, 663, 360-370.	5.5	37
13	Improved oxidation resistance of high emissivity coatings on fibrous ceramic for reusable space systems. <i>Corrosion Science</i> , 2019, 146, 233-246.	6.6	34
14	A new rapid and economical one-step method for preparing SiO ₂ aerogels using supercritical extraction. <i>Powder Technology</i> , 2017, 312, 1-10.	4.2	32
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.	8.0	29
16	High emissivity MoSi ₂ -TaSi ₂ -borosilicate glass porous coating for fibrous ZrO ₂ ceramic by a rapid sintering method. <i>Journal of Alloys and Compounds</i> , 2017, 690, 63-71.	5.5	27
17	Synthesis of a novel three-dimensional Na ₂ SO ₄ @SiO ₂ @Al ₂ O ₃ -SiO ₂ phase change material doped aerogel composite with high thermal resistance and latent heat. <i>Ceramics International</i> , 2018, 44, 21855-21865.	4.8	26
18	Preparation and thermal shock resistance of high emissivity molybdenum disilicide-aluminoborosilicate glass hybrid coating on fiber reinforced aerogel composite. <i>Applied Surface Science</i> , 2017, 416, 805-814.	6.1	21

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19	Design, formation, and property of high emissivity WSi ₂ -Si-glass hybrid coating on fibrous ZrO ₂ ceramic for reusable thermal protection system. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 301-313.	6.2	19
20	Evolution of microstructure and radiative property of metal silicide-glass hybrid coating for fibrous ZrO ₂ ceramic during high temperature oxidizing atmosphere. <i>Corrosion Science</i> , 2017, 126, 78-93.	6.6	19
21	Preparation and characterization of C/Al ₂ O ₃ composite aerogel with high compressive strength and low thermal conductivity. <i>Journal of Porous Materials</i> , 2015, 22, 1235-1243.	2.6	18
22	Investigation on textural and structural evolution of the novel crack-free equimolar Al ₂ O ₃ -SiO ₂ -TiO ₂ ternary aerogel during thermal treatment. <i>Ceramics International</i> , 2017, 43, 4188-4196.	4.8	18
23	Robust monolithic polymer(resorcinol-formaldehyde) reinforced alumina aerogel composites with mutually interpenetrating networks. <i>RSC Advances</i> , 2019, 9, 22942-22949.	3.6	12
24	Fabrication and microstructure evolution of monolithic bridged polysilsesquioxane-derived SiC ceramic aerogels. <i>Ceramics International</i> , 2022, 48, 25833-25839.	4.8	12
25	Simultaneous low reflection in near-infrared range and low emission in long-wave infrared properties of Al/Bi ₂ O ₃ composites. <i>Ceramics International</i> , 2021, 47, 31180-31186.	4.8	10
26	The low temperature fabrication of nanocrystalline MgAl ₂ O ₄ spinel aerogel by a non-alkoxide sol-gel route. <i>Materials Letters</i> , 2017, 207, 137-140.	2.6	9
27	Multivalent crosslinked double-network graphene-polyorganosiloxane hybrid aerogels toward efficient thermal insulation and water purification. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 647, 129129.	4.7	5
28	Synergistic interactions of chemical additives on the strength development of silicate cement by a box-behnken model optimization. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	2