

Xiaoyanzhang Zhang

List of Publications by Year in descending order

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36
papers

789
citations

535685

17
h-index

591227

27
g-index

36
all docs

36
docs citations

36
times ranked

682
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric-Modulated Biosensing with Ultrahigh-Frequency-Operated Graphene Field-Effect Transistors. <i>Advanced Materials</i> , 2022, 34, e2106666.	11.1	16
2	Porous ceramics with near-zero shrinkage and low thermal conductivity from hazardous secondary aluminum dross. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3197-3210.	1.9	18
3	Mullite ceramic foams with tunable pores from dual-phase sol nanoparticle-stabilized foams. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1703-1711.	2.8	16
4	Phase evolution and properties of glass ceramic foams prepared by bottom ash, fly ash and pickling sludge. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 563-573.	2.4	16
5	Dielectric-Modulated Biosensing with Ultrahigh-Frequency-Operated Graphene Field-Effect Transistors (Adv. Mater. 7/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	1
6	Exploring optical and electrical gas detection based on zinc-tetra-phenyl-porphyrin sensitizer. <i>Analytical Sciences</i> , 2022, 38, 833-842.	0.8	2
7	Directly growing nanowire-assembled nanofibrous ceramic foams with multi-lamellar structure via freeze-casting process. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1041-1047.	2.8	11
8	Graphene Oxide/Hexylamine Superlattice Field-Effect Biochemical Sensors. <i>Advanced Functional Materials</i> , 2021, 31, 2010563.	7.8	10
9	Highly porous ceramics production using slags from smelting of spent automotive catalysts. <i>Resources, Conservation and Recycling</i> , 2021, 166, 105373.	5.3	26
10	Migration, transformation and solidification/stabilization mechanisms of heavy metals in glass-ceramics made from MSWI fly ash and pickling sludge. <i>Ceramics International</i> , 2021, 47, 21599-21609.	2.3	25
11	Three-Dimensional Reticulated, Spongelike, Resilient Aerogels Assembled by SiC/Si ₃ N ₄ Nanowires. <i>Nano Letters</i> , 2021, 21, 4167-4175.	4.5	34
12	Biochemical Sensors: Graphene Oxide/Hexylamine Superlattice Field-Effect Biochemical Sensors (Adv.) <i>Tj ETQq0 Q,0 rgBT /Oerlock 10</i>	7.8	10
13	Ultrasensitive Field-Effect Biosensors Enabled by the Unique Electronic Properties of Graphene. <i>Small</i> , 2020, 16, e1902820.	5.2	75
14	3D printing boehmite gel foams into lightweight porous ceramics with hierarchical pore structure. <i>Journal of the European Ceramic Society</i> , 2020, 40, 930-934.	2.8	47
15	Direct coagulation casting of silicon carbide suspension via polyelectrolyte dispersant crosslink reaction. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 274-284.	1.1	3
16	Ultrastrong Hierarchical Porous Materials via Colloidal Assembly and Oxidation of Metal Particles. <i>Advanced Functional Materials</i> , 2020, 30, 2003550.	7.8	31
17	Hierarchically porous ceria with tunable pore structure from particle-stabilized foams. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4366-4372.	2.8	20
18	<i>in situ</i> coagulation of yttria-stabilized zirconia ceramic with enhancement of green body via polyvinyl pyrrolidone crosslink. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48889.	1.3	2

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19	Silica foams with ultra-large specific surface area structured by hollow mesoporous silica spheres. <i>Journal of the American Ceramic Society</i> , 2019, 102, 955-961.	1.9	25
20	Novel micro-spherical Si ₃ N ₄ nanowire sponges from carbon-doped silica sol foams via reverse templating method. <i>Journal of the American Ceramic Society</i> , 2019, 102, 962-969.	1.9	15
21	Effect of zeta potential on properties of foamed colloidal suspension. <i>Journal of the European Ceramic Society</i> , 2019, 39, 574-583.	2.8	56
22	Low-cost, green synthesis and adsorption properties for dyes of novel porous gangue/palygorskite composite microspheres. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1510-1524.	1.1	5
23	Si ₃ N ₄ Hollow Microsphere Toughened Porous Ceramics from Direct Coagulation Method via Dispersant Reaction. <i>Advanced Engineering Materials</i> , 2019, 21, 1800858.	1.6	6
24	Ultrahigh-strength alumina ceramic foams via gelation of foamed boehmite sol. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5503-5513.	1.9	29
25	Porous Si ₃ N ₄ -based ceramics with uniform pore structure originated from single-shell hollow microspheres. <i>Journal of Materials Science</i> , 2019, 54, 4484-4494.	1.7	13
26	Aerogel-like ceramic foams with super-high porosity and nanoscale cell wall from sol nanoparticles stabilized foams. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3753-3762.	1.9	14
27	In situ synthesis of three-dimensional nanofiber-knitted ceramic foams via reactive sintering silicon foams. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2245-2250.	1.9	13
28	Preparation of Al ₂ O ₃ -Si ₃ N ₄ porous ceramics with a cactus-like architecture for potential filters applications. <i>Ceramics International</i> , 2019, 45, 6581-6584.	2.3	14
29	Ultralight and high-strength bulk alumina/zirconia composite ceramic foams through direct foaming method. <i>Ceramics International</i> , 2019, 45, 1464-1467.	2.3	39
30	Optimal design on the high-temperature mechanical properties of porous alumina ceramics based on fractal dimension analysis. <i>Journal of Advanced Ceramics</i> , 2018, 7, 89-98.	8.9	38
31	Optimal design on the mechanical and thermal properties of porous alumina ceramics based on fractal dimension analysis. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 643-652.	1.1	6
32	Highly porous barium strontium titanate (BST) ceramic foams with low dielectric constant from particle-stabilized foams. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1737-1746.	1.9	23
33	Novel mullite ceramic foams with high porosity and strength using only fly ash hollow spheres as raw material. <i>Journal of the European Ceramic Society</i> , 2018, 38, 2035-2042.	2.8	77
34	Design and formulation of polyurethane foam used for porous alumina ceramics. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	21
35	A one-step method for pore expansion and enlargement of hollow cavity of hollow periodic mesoporous organosilica spheres. <i>Journal of Materials Science</i> , 2017, 52, 2868-2878.	1.7	15
36	Direct Coagulation Casting of Alumina Suspension from Calcium Citrate Assisted by pH Shift. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1048-1053.	1.9	27