Tiemin Li

List of Publications by Year
in descending order

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63	1,933	257101 24	264894 42
papers	citations	h-index	g-index

63	63	63	1691
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Special Material or a New State of Matter: A Review and Reconsideration of the Aerogel. Materials, 2013, 6, 941-968.	1.3	366
2	Multifunctional Silica Nanotube Aerogels Inspired by Polar Bear Hair for Light Management and Thermal Insulation. Chemistry of Materials, 2018, 30, 6849-6857.	3.2	124
3	Nanocellulose nanocomposite aerogel towards efficient oil and organic solvent adsorption. Advanced Composites and Hybrid Materials, 2021, 4, 459-468.	9.9	123
4	Enhanced Photothermal Conversion by Hot-Electron Effect in Ultrablack Carbon Aerogel for Solar Steam Generation. ACS Applied Materials & Interfaces, 2019, 11, 42057-42065.	4.0	109
5	Super Black Material from Low-Density Carbon Aerogels with Subwavelength Structures. ACS Nano, 2016, 10, 9123-9128.	7.3	96
6	Artificial Trees Inspired by Monstera for Highly Efficient Solar Steam Generation in Both Normal and Weak Light Environments. Advanced Functional Materials, 2020, 30, 2005513.	7.8	95
7	Magnetoresistive and piezoresistive polyaniline nanoarrays in-situ polymerized surrounding magnetic graphene aerogel. Advanced Composites and Hybrid Materials, 2022, 5, 1003-1016.	9.9	72
8	Over 11 kg m^{â€“2} h^{â€“1} Evaporation Rate Achieved by Cooling Metalâ€“Organic Framework Foam with Pine Needle-Like Hierarchical Structures to Subambient Temperature. ACS Applied Materials & Interfaces, 2022, 14, 10257-10266.	4.0	48
9	Synthesis of polyimide cross-linked silica aerogels with good acoustic performance. RSC Advances, 2014, 4, 58252-58259.	1.7	46
10	Ultra-black carbon@silica core-shell aerogels with controllable electrical conductivities. Advanced Composites and Hybrid Materials, 2019, 2, 743-752.	9.9	40
11	Hydrophobic Silica Nanorod Arrays Vertically Grown on Melamine Foams for Oil/Water Separation. ACS Applied Nano Materials, 2020, 3, 1479-1488.	2.4	38
12	A versatile solâ€“gel route to monolithic oxidic gels via polyacrylic acid template. New Journal of Chemistry, 2011, 35, 1096.	1.4	35
13	Silica-aerogel-powders â€œjammedâ€•polyimide aerogels with excellent hydrophobicity and conversion to ultra-light polyimide aerogel. RSC Advances, 2016, 6, 58268-58278.	1.7	33
14	Effects of monomer rigidity on the microstructures and properties of polyimide aerogels cross-linked with low cost aminosilane. RSC Advances, 2016, 6, 22868-22877.	1.7	30
15	Overview of electrocatalytic treatment of antibiotic pollutants in wastewater. Catalysis Reviews - Science and Engineering, 2023, 65, 569-619.	5.7	30
16	Fabrication of gradient density SiO2 aerogel. Journal of Sol-Gel Science and Technology, 2011, 58, 470-475.	1.1	29
17	Biomimetic Ultraâ€Black Sponge Derived from Loofah and Coâ€MOF for Longâ€Term Solarâ€Powered Vapor Generation and Desalination. Solar Rrl, 2021, 5, 2000817.	3.1	28
18	One-pot synthesis, characterization and properties of acid-catalyzed resorcinol/formaldehyde cross-linked silica aerogels and their conversion to hierarchical porous carbon monoliths. Journal of Sol-Gel Science and Technology, 2012, 62, 294-303.	1.1	27

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19	Effect of the thermal treatment on microstructure and physical properties of low-density and high transparency silica aerogels via acetonitrile supercritical drying. Journal of Porous Materials, 2013, 20, 1163-1170.	1.3	27
20	Preparation, Characterization, and In Vitro Sustained Release Profile of Resveratrol-Loaded Silica Aerogel. Molecules, 2020, 25, 2752.	1.7	27
21	Versatile Direct Writing of Aerogel-Based Solâ€“Gel Inks. Langmuir, 2021, 37, 2129-2139.	1.6	27
22	Slow-sound propagation in aerogel-inspired hybrid structure with backbone and dangling branch. Advanced Composites and Hybrid Materials, 2021, 4, 248-256.	9.9	27
23	Epsilonâ€Negative Carbon Aerogels with State Transition from Dielectric to Degenerate Semiconductor. Advanced Electronic Materials, 2021, 7, 2000877.	2.6	25
24	Morphology analysis of tracks in the aerogels impacted by hypervelocity irregular particles. High Power Laser Science and Engineering, 2021, 9, .	2.0	25
25	An overview of high-performance phthalonitrile resins: fabrication and electronic applications. Journal of Materials Chemistry C, 2022, 10, 2925-2937.	2.7	24
26	Influence of thermal process on microstructural and physical properties of ambient pressure dried hydrophobic silica aerogel monoliths. Journal of Sol-Gel Science and Technology, 2012, 62, 126-133.	1.1	22
27	Low-cost carbon nanotube aerogels with varying and controllable density. Journal of Sol-Gel Science and Technology, 2016, 79, 76-82.	1.1	20
28	Efficient preparation of crack-free, low-density and transparent polymethylsilsesquioxane aerogels via ambient pressure drying and surface modification. RSC Advances, 2018, 8, 17967-17975.	1.7	20
29	Hierarchical microstructure and formative mechanism of low-density molybdena-based aerogel derived from MoCl5. Journal of Sol-Gel Science and Technology, 2011, 58, 225-231.	1.1	18
30	Timing of polyethylene glycol addition for the control of SiO2 sol structure and solâ€“gel coating properties. Journal of Coatings Technology Research, 2017, 14, 447-454.	1.2	18
31	Nanostructured resorcinol-formaldehyde ink for 3D direct writing. Journal of Materials Research, 2018, 33, 2052-2061.	1.2	18
32	Preparation, Characterization, and In Vitro Evaluation of Resveratrol-Loaded Cellulose Aerogel. Materials, 2020, 13, 1624.	1.3	17
33	Freestanding titanium metallic aerogel. Materials and Design, 2016, 97, 93-97.	3.3	16
34	Ultraâ€Black Pinecone for Efficient Solar Steam Generation under Omnidirectional Illumination. Advanced Sustainable Systems, 2021, 5, 2000244.	2.7	16
35	Greatly strengthened silica aerogels via co-gelation of binary sols with different concentrations: A method to control the microstructure of the colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 763-774.	2.3	15
36	Ultra-low-density GNS/CA composite aerogels with ultra-high specific surface for dye removal. Journal of Sol-Gel Science and Technology, 2016, 80, 68-76.	1.1	14

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37	Reaction-Induced Microsyneresis in Oxide-Based Gels: The Assembly of Hierarchical Microsphere Networks. Langmuir, 2013, 29, 11208-11216.	1.6	13
38	Temperature dependence of dynamic mechanical behaviors in low density MTMS-derived silica aerogel. Journal of Porous Materials, 2018, 25, 1229-1235.	1.3	13
39	Nanoporous Carbon Aerogels for Laser-Printed Wearable Sensors. ACS Applied Nano Materials, 2021, 4, 6796-6804.	2.4	13
40	Microstructure control of the silica aerogels via pinhole drying. Journal of Sol-Gel Science and Technology, 2017, 84, 96-103.	1.1	12
41	In Vivo Effect of Resveratrol-Loaded Solid Lipid Nanoparticles to Relieve Physical Fatigue for Sports Nutrition Supplements. Molecules, 2020, 25, 5302.	1.7	12
42	Fabrication of multilayer graded density peeled-carbon-aerogel target. Fusion Engineering and Design, 2011, 86, 238-243.	1.0	10
43	An investigation on the assembling of WO3 particles on the matrix of silica solution. Journal of Sol-Gel Science and Technology, 2012, 64, 427-435.	1.1	9
44	Template confined synthesis of Cu- or Cu₂O-doped SiO₂aerogels from Cu(<scp>ii</scp>)-containing composites by in situ alcohothermal reduction. RSC Advances, 2014, 4, 49541-49546.	1.7	9
45	An optical dustbin made by the subwavelength-induced super-black carbon aerogels. Journal of Materials Research, 2017, 32, 3524-3531.	1.2	9
46	Self-supporting silica aerogel thin films with high flexibility. Thin Solid Films, 2017, 628, 81-87.	0.8	8
47	Preparation and optimization of aerogel flyer-plates with graded density. Materials and Design, 2016, 110, 225-232.	3.3	7
48	Diffusion of Resveratrol in Silica Alcogels. Molecules, 2019, 24, 3931.	1.7	7
49	A Simple Strategy for Constructing Hierarchical Composite Electrodes of PPyâ€Posttreated 3Dâ€Printed Carbon Aerogel with Ultrahigh Areal Capacitance over 8000 mF cm^{â€“2}. Advanced Materials Technologies, 2022, 7, .	3.0	7
50	Fabrication and characterization of composition-gradient CuO/SiO2 composite aerogel. Journal of Sol-Gel Science and Technology, 2013, 68, 102-109.	1.1	6
51	Template confined synthetic strategy for three-dimensional free-standing hierarchical porous nanocrystalline tantalum. Materials Letters, 2014, 116, 31-34.	1.3	6
52	One-Dimension Diffusion Preparation of Concentration-Gradient Fe2O3/SiO2 Aerogel. Molecules, 2018, 23, 1502.	1.7	6
53	Ultrablack Poly(vinyl alcohol)â€Graphite Composite Xerogel with Vertically Arranged Pores for Highly Efficient Solar Steam Generation and Desalination. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	6
54	Design and Fabrication of a CH/RF/CH Tri-Layer Perturbation Target for Hydrodynamic Instability Experiments in ICF. Journal of Fusion Energy, 2016, 35, 357-364.	0.5	5

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55	Aqueous-based, high-density nanoporous carbon xerogels with high specific surface area for supercapacitors. Journal of Porous Materials, 2022, 29, 87-95.	1.3	5
56	Fabrication of Multi-layered Shock Wave Tube for Hydrodynamic Instability Experiment. Journal of Fusion Energy, 2011, 30, 509-515.	0.5	4
57	A new approach for preparation of free-standing nano-porous SiO2 films with a large area. Journal of Sol-Gel Science and Technology, 2016, 80, 267-276.	1.1	4
58	Low-Temperature Synthesis of Monolithic Titanium Carbide/Carbon Composite Aerogel. Nanomaterials, 2020, 10, 2527.	1.9	4
59	Adjustable magnetoresistance in semiconducting carbonized phthalonitrile resin. Chemical Communications, 2021, 57, 9894-9897.	2.2	4
60	A finite-volume fast diffusion-limited aggregation model for predicting the coagulation rate of mixed low-ionized system. AIP Advances, 2017, 7, .	0.6	3
61	Cast-In-Situ, Large-Sized Monolithic Silica Xerogel Prepared in Aqueous System. Molecules, 2018, 23, 1178.	1.7	3
62	Preparation and characterization of inhomogeneous RF aerogels with continuously varying densities. Journal of Sol-Gel Science and Technology, 2019, 90, 478-486.	1.1	2
63	Thermal Failure Analysis of Fiber-Reinforced Silica Aerogels under Liquid Nitrogen Thermal Shock. Molecules, 2018, 23, 1522.	1.7	1