Chemistry of Aerogels and Their Applications

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Citation Report

#	Article	IF	CITATIONS
1	Chemistry of Aerogels and Their Applications. ChemInform, 2003, 34, no.	0.1	4
2	Comparative studies of the physical and hydrophobic properties of TEOS based silica aerogels using different co-precursors. Science and Technology of Advanced Materials, 2003, 4, 509-515.	2.8	94
3	Organically modified xerogels as novel tailor-made supports for covalent immobilisation of enzymes (penicillin G acylase). Tetrahedron Letters, 2003, 44, 5889-5891.	0.7	18
4	Organically modified xerogels as supports for solid-phase chemistry. Tetrahedron Letters, 2003, 44, 6083-6085.	0.7	11
5	Strong Akaganeite Aerogel Monoliths Using Epoxides:Â Synthesis and Characterization. Chemistry of Materials, 2003, 15, 3268-3275.	3.2	148
6	Catalytic Nanoarchitecturesthe Importance of Nothing and the Unimportance of Periodicity. Science, 2003, 299, 1698-1701.	6.0	985
7	Aerogel thin film synthesis by a supercritical fluid-assisted sol–gel route in a single processing unit. Journal of Materials Chemistry, 2003, 13, 2066-2068.	6.7	7
8	Vapor-liquid transitions of dipolar fluids in disordered porous media: Performance of angle-averaged potentials. Journal of Chemical Physics, 2004, 121, 9623-9629.	1.2	6
9	High Surfaceâ€Area Ceria Aerogel. Journal of the American Ceramic Society, 2004, 87, 1442-1445.	1.9	26
10	Room Temperature Synthesis of Noble Metal Clusters in the Mesopores of Mechanically Strong Silica-Polymer Aerogel Composites. Journal of Sol-Gel Science and Technology, 2004, 30, 43-48.	1.1	42
11	Preparation and Characterization of FeCo-Al2O3and Al2O3Aerogels. Journal of Sol-Gel Science and Technology, 2004, 31, 83-86.	1.1	15
12	The sol-gel encapsulation of enzymes. Biocatalysis and Biotransformation, 2004, 22, 145-170.	1.1	353
13	Preparation of nanoparticulate metal catalysts in porous supports using an ionic liquid route; hydrogenation and C–C coupling. Inorganic Chemistry Communication, 2004, 7, 73-76.	1.8	84
14	Evolution of the Structure and Magnetic Properties of FeCo Nanoparticles in an Alumina Aerogel Matrix. Chemistry of Materials, 2004, 16, 3130-3138.	3.2	49
15	Terahertz Time-Domain Spectroscopy Study of Silica Aerogels and Adsorbed Molecular Vapors. Journal of Physical Chemistry B, 2004, 108, 18590-18600.	1.2	21
16	Ultraporous Single Phase Iron Oxideâ^'Silica Nanostructured Aerogels from Ferrous Precursors. Langmuir, 2004, 20, 1425-1429.	1.6	31
17	Synthesis and Characterization of Ru(II) Tris(1,10-phenanthroline)-Electron Acceptor Dyads Incorporating the 4-Benzoyl-N-methylpyridinium Cation orN-Benzyl-Nâ€~methyl Viologen. Improving the Dynamic Range, Sensitivity, and Response Time of Solâ^'Gel-Based Optical Oxygen Sensors. Chemistry of Materials, 2004, 16, 1493-1506.	3.2	61
18	Surface Plasmon Resonance:Â Theoretical Evolutionary Design Optimization for a Model Analyte Sensitive Absorbing-Layer System. Analytical Chemistry, 2004, 76, 6861-6870.	3.2	14

#	Article	IF	Citations
19	Monolithic nickel(II)-based aerogels using an organic epoxide: the importance of the counterion. Journal of Non-Crystalline Solids, 2004, 350, 145-151.	1.5	119
20	Synthesis and characterization of Mn–FeOx aerogels with magnetic properties. Journal of Non-Crystalline Solids, 2004, 350, 182-188.	1.5	25
21	Isocyanate-crosslinked silica aerogel monoliths: preparation and characterization. Journal of Non-Crystalline Solids, 2004, 350, 152-164.	1.5	221
22	Aerogel-platform optical sensors for oxygen gas. Journal of Non-Crystalline Solids, 2004, 350, 326-335.	1.5	61
23	Silica aerogels with enhanced durability, 30-nm mean pore-size, and improved immersibility in liquids. Journal of Non-Crystalline Solids, 2004, 350, 244-252.	1.5	44
24	Nanocrystalline Iron Oxide Aerogels as Mesoporous Magnetic Architectures. Journal of the American Chemical Society, 2004, 126, 16879-16889.	6.6	164
25	lon exchange and ion transport properties of sulfonated organically modified silica hydrogels. Journal of Solid State Electrochemistry, 2004, 8, 742.	1.2	12
26	Three-Dimensional Battery Architectures. Chemical Reviews, 2004, 104, 4463-4492.	23.0	1,146
27	Particle Production Using Supercritical Fluids. Surfactant Science, 2005, , 641-678.	0.0	1
28	Photocatalytic activity of sol–gel derived titania converted into nanocrystalline powders by supercritical drying. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 172, 19-26.	2.0	57
29	Carbon aerogels for catalysis applications: An overview. Carbon, 2005, 43, 455-465.	5.4	607
30	The effects of different synthetic conditions on the porous properties of carbon cryogel microspheres. Carbon, 2005, 43, 1231-1238.	5.4	26
31	Impact of the support on the heat of adsorption of the linear CO species on Pt-containing catalysts. Applied Catalysis A: General, 2005, 278, 223-231.	2.2	33
32	Compared esterification kinetics of the lipase from Burkholderia cepacia either free or encapsulated in a silica aerogel. Journal of Molecular Catalysis B: Enzymatic, 2005, 32, 193-203.	1.8	29
33	High Surface Area, Mesoporous, Glassy Alumina with a Controllable Pore Size by Nanocasting from Carbon Aerogels. Chemistry - A European Journal, 2005, 11, 1658-1664.	1.7	67
34	Nanoengineered Silica-Polymer Composite Aerogels with No Need for Supercritical Fluid Drying. Journal of Sol-Gel Science and Technology, 2005, 35, 99-105.	1.1	80
35	Shaping and Mechanical Reinforcement of Silica Aerogel Biocatalysts with Ceramic Fiber Felts. Journal of Sol-Gel Science and Technology, 2005, 36, 163-171.	1.1	62
36	Structure and Thermal Conductivity of Silica Aerogels from Computer Simulations. Materials Research Society Symposia Proceedings, 2005, 885, 1.	0.1	4

#	Article	IF	CITATIONS
37	Targets for Inertial Confinement Fusion. , 2005, , 1-11.		1
38	Chemically Selective Reactions in Confined Spaces in Hybrid Aerogels. Materials Research Society Symposia Proceedings, 2005, 899, 1.	0.1	0
39	Densification and Photoluminescence Improvement of Y[sub 2]O[sub 3] Phosphor Particles Prepared by Spray Pyrolysis. Electrochemical and Solid-State Letters, 2005, 8, H17.	2.2	39
40	Assembly of Silica Nanowires on Silica Aerogels for Microphotonic Devices. Nano Letters, 2005, 5, 259-262.	4.5	274
41	Dipolar fluids under external perturbations. Journal of Physics Condensed Matter, 2005, 17, R525-R550.	0.7	76
42	Nanosized metallic particles embedded in silica and carbon aerogels as catalysts in the Mizoroki–Heck coupling reaction. New Journal of Chemistry, 2005, 29, 1342.	1.4	63
43	Hybrid organic–inorganic nanocomposites fabricated with a novel biocompatible precursor using sol-gel processing. Composite Interfaces, 2005, 11, 587-607.	1.3	67
44	NMR measurements of hyperpolarized He3 gas diffusion in high porosity silica aerogels. Journal of Chemical Physics, 2005, 123, 064506.	1.2	15
45	Structural, Textural, and Electronic Properties of a Nanosized Mesoporous ZnxTi1-xO2-xSolid Solution Prepared by a Supercritical Drying Route. Journal of Physical Chemistry B, 2005, 109, 20303-20309.	1.2	43
46	Formation of Titania Nanofibers:  A Direct Solâ^'Gel Route in Supercritical CO2. Langmuir, 2005, 21, 6150-6153.	1.6	76
47	Ordered Macroporous Silica by Ice Templating. Chemistry of Materials, 2005, 17, 683-689.	3.2	221
48	Progress in Drying Technology for Nanomaterials. Drying Technology, 2005, 23, 7-32.	1.7	108
49	From Hydrocolloids to High Specific Surface Area Porous Supports for Catalysis. Biomacromolecules, 2005, 6, 2785-2792.	2.6	64
50	Highly dispersed nickel and palladium nanoparticle silica aerogels: sol–gel processing of tethered metal complexes and application as catalysts in the Mizoroki–Heck reaction. New Journal of Chemistry, 2006, 30, 1093-1097.	1.4	56
51	Direct Synthesis of Zirconia Aerogel Nanoarchitecture in Supercritical CO2. Langmuir, 2006, 22, 4390-4396.	1.6	69
52	FTIR Study on the Formation of TiO2Nanostructures in Supercritical CO2. Journal of Physical Chemistry B, 2006, 110, 16212-16218.	1.2	84
53	Mechanical Characterization and Modeling of Isocyanate-Crosslinked Nanostructured Silica Aerogels. , 2006, , .		4
54	Mesopore-Modified Zeolites:Â Preparation, Characterization, and Applications. Chemical Reviews, 2006, 106, 896-910.	23.0	1,016

#	ARTICLE	IF	Citations
55	Hydrophobic monolithic aerogels by nanocasting polystyrene on amine-modified silica. Journal of Materials Chemistry, 2006, 16, 3046.	6.7	125
56	Chemical, Physical, and Mechanical Characterization of Isocyanate Cross-linked Amine-Modified Silica Aerogels. Chemistry of Materials, 2006, 18, 285-296.	3.2	259
57	Solâ^'Gel-Derived Ceria Nanoarchitectures:  Synthesis, Characterization, and Electrical Properties. Chemistry of Materials, 2006, 18, 50-58.	3.2	219
58	Low Molecular-Mass Organic Gelators. , 2006, , 449-551.		23
59	Atomic Layer Deposition of Uniform Metal Coatings on Highly Porous Aerogel Substrates. Chemistry of Materials, 2006, 18, 6106-6108.	3.2	44
60	Synthesis and characterization of germanium sulfide aerogels. Journal of Non-Crystalline Solids, 2006, 352, 232-240.	1.5	61
61	Nanostructured Energetic Composites of CL-20 and Binders Synthesized by Sol Gel Methods. Propellants, Explosives, Pyrotechnics, 2006, 31, 61-69.	1.0	43
62	Flexible, low-density polymer crosslinked silica aerogels. Polymer, 2006, 47, 5754-5761.	1.8	136
63	Recent bio-applications of sol–gel materials. Journal of Materials Chemistry, 2006, 16, 1013-1030.	6.7	708
64	The Development of Biopolymer-Based Nanostructured Materials: Plastics, Gels, IPNs, and Nanofoams. ACS Symposium Series, 2006, , 288-303.	0.5	1
65	Nanoscale observation of morphological transformation during ageing of silica and silica-alumina. Journal of Sol-Gel Science and Technology, 2006, 39, 139-150.	1.1	2
66	Aerogel: Space exploration applications. Journal of Sol-Gel Science and Technology, 2006, 40, 351-357.	1.1	216
67	The compressive behavior of isocyanate-crosslinked silica aerogel at high strain rates. Mechanics of Time-Dependent Materials, 2006, 10, 83-111.	2.3	65
68	Cellulose-based aerogels. Polymer, 2006, 47, 7636-7645.	1.8	237
69	Photocatalytic activity of epoxide sol–gel derived titania transformed into nanocrystalline aerogel powders by supercritical drying. Journal of Molecular Catalysis A, 2006, 255, 260-268.	4.8	41
70	Preparation of freestanding and crack-free titania–silica aerogels and their performance for gas phase, photocatalytic oxidation of VOCs. Applied Catalysis B: Environmental, 2006, 68, 99-108.	10.8	91
71	Environmental effects on poly-p-phenylenebenzobisoxazole fibers. II. Attempts at stabilization. Journal of Applied Polymer Science, 2006, 102, 3819-3829.	1.3	36
72	Properties and applications of supports for enzyme-mediated transformations in solid phase synthesis. Journal of Chemical Technology and Biotechnology, 2006, 81, 1626-1640.	1.6	20

#	Article	IF	Citations
73	Synthesis of La9.33Si6O26 Pore–Solid Nanoarchitectures via Epoxide-Driven Sol–Gel Chemistry. Advanced Materials, 2006, 18, 615-618.	11.1	52
74	Sol-Gel Immobilization of Catalytic Molecules and Applications: A Review. Advances in Science and Technology, 2006, 45, 2127-2136.	0.2	5
75	Computer Simulation of Fracture in Aerogels. Materials Research Society Symposia Proceedings, 2006, 978, .	0.1	0
76	Characteristics of Silica Aerogel Composites Synthesized by Ambient Drying Method. Materials Science Forum, 2007, 544-545, 673-676.	0.3	5
77	Computer Simulation of Compressive Failure in Silica Aerogels. Materials Research Society Symposia Proceedings, 2007, 1060, 60301.	0.1	0
78	Adsorption of Benzene, Toluene, and Xylenes on Monolithic Carbon Aerogels from Dry Air Flows. Langmuir, 2007, 23, 10095-10101.	1.6	74
79	Sol–Gel Methods for the Assembly of Metal Chalcogenide Quantum Dots. Accounts of Chemical Research, 2007, 40, 801-809.	7.6	200
81	Time-Efficient Acid-Catalyzed Synthesis of Resorcinolâ^'Formaldehyde Aerogels. Chemistry of Materials, 2007, 19, 6138-6144.	3.2	164
82	Silica xerogels and aerogels synthesized with ionic liquids. Journal of Non-Crystalline Solids, 2007, 353, 2900-2909.	1.5	73
83	A Sol–Gel Route To Synthesize Monolithic Zinc Oxide Aerogels. Chemistry of Materials, 2007, 19, 6007-6011.	3.2	108
84	Accessibility of the Functional Groups of Chitosan Aerogel Probed by FT-IR-Monitored Deuteration. Biomacromolecules, 2007, 8, 3646-3650.	2.6	95
85	Zirconia Aerogels with High Surface Area Derived from Sols Prepared by Electrolyzing Zirconium Oxychloride Solution:  Comparison of Aerogels Prepared by Freeze-Drying and Supercritical CO2(I) Extraction. Journal of Physical Chemistry C, 2007, 111, 18738-18743.	1.5	55
86	Three-Dimensional Core-Shell Superstructures: Mechanically Strong Aerogels. Accounts of Chemical Research, 2007, 40, 874-884.	7.6	288
88	Silica Nanofibers and Subwavelength-Diameter Fibers. , 2007, , 361-400.		0
89	Role of Urea in the Preparation of Highly Porous Nanocomposite Aerogels. Langmuir, 2007, 23, 3509-3512.	1.6	40
90	Polymer nanoencapsulated rare earth aerogels: chemically complex but stoichiometrically similar core–shell superstructures with skeletal properties of pure compounds. Journal of Materials Chemistry, 2007, 17, 1502-1508.	6.7	68
91	Magnetic and Structural Investigation of Highly Porous CoFe2O4â^'SiO2Nanocomposite Aerogels. Journal of Physical Chemistry C, 2007, 111, 916-922.	1.5	39
92	Electronic structure of nanoporous ceria from x-ray absorption spectroscopy and atomic multiplet calculations. Physical Review B, 2007, 76, .	1.1	32

#	Article	IF	CITATIONS
93	Solid-State Chemistry., 2007, , 13-85.		O
97	Enzyme Immobilization: The Quest for Optimum Performance. Advanced Synthesis and Catalysis, 2007, 349, 1289-1307.	2.1	1,835
98	Carbon allotropes: beyond graphite and diamond. Journal of Chemical Technology and Biotechnology, 2007, 82, 524-531.	1.6	215
99	Efficient hydroxycarbonylation of aryl iodides using recoverable and reusable carbon aerogels doped with palladium nanoparticles as catalyst. Tetrahedron, 2007, 63, 2519-2523.	1.0	37
100	Preparation of carbon cryogels from wattle tannin and furfural. Microporous and Mesoporous Materials, 2007, 98, 258-266.	2.2	43
101	Effects of aging and drying conditions on the structural and textural properties of silica gels. Microporous and Mesoporous Materials, 2007, 102, 274-282.	2.2	120
102	Microporosity of the amorphous aluminosilicate precursors of zeolites: The case of the gels of synthesis of mordenite. Microporous and Mesoporous Materials, 2007, 104, 209-216.	2.2	11
103	Effect of morphological properties of ionic liquid-templated mesoporous anatase TiO2 on performance of PEMFC with Nafion/TiO2 composite membrane at elevated temperature and low relative humidity. Journal of Power Sources, 2007, 171, 363-372.	4.0	108
104	Absorption and desorption of organic liquids in elastic superhydrophobic silica aerogels. Journal of Colloid and Interface Science, 2007, 305, 124-132.	5.0	236
105	Fluorine-containing polysiloxane coatings for lithium iodate crystals. Doklady Physical Chemistry, 2007, 415, 205-208.	0.2	1
106	Preparation of Monolithic Silica Aerogel of Low Thermal Conductivity by Ambient Pressure Drying. Journal of the American Ceramic Society, 2007, 90, 2003-2007.	1.9	180
107	Titanium Dioxide Nanomaterials:  Synthesis, Properties, Modifications, and Applications. Chemical Reviews, 2007, 107, 2891-2959.	23.0	9,393
108	Effective preparation of crack-free silica aerogels via ambient drying. Journal of Sol-Gel Science and Technology, 2007, 41, 139-146.	1.1	97
109	Polydicyclopentadiene based aerogel: a new insulation material. Journal of Sol-Gel Science and Technology, 2007, 44, 29-40.	1.1	76
110	Synthesis characterization and catalytic evaluation of Ni/ZrO2/SiO2 aerogels catalysts. Journal of Sol-Gel Science and Technology, 2007, 44, 145-151.	1.1	5
111	Electrical response and adsorption performance of novel composites from polystyrene filled with carbon aerogel in organic vapors. Sensors and Actuators B: Chemical, 2008, 132, 60-66.	4.0	29
112	Synthesis of freestanding silica and titania-silica aerogels with ordered and disordered mesopores. Journal of Sol-Gel Science and Technology, 2008, 46, 323-333.	1.1	40
113	Non-supercritically dried silica–silica composite aerogel and its possible application for confining simulated nuclear wastes. Journal of Sol-Gel Science and Technology, 2008, 46, 146-151.	1.1	18

#	Article	IF	CITATIONS
114	Elastic organic–inorganic hybrid aerogels and xerogels. Journal of Sol-Gel Science and Technology, 2008, 48, 172-181.	1.1	114
115	Synthesis and characterization of the physical, chemical and mechanical properties of isocyanate-crosslinked vanadia aerogels. Journal of Sol-Gel Science and Technology, 2008, 48, 113-134.	1.1	59
116	Surface silylation and pore structure development of silica aerogel composites from colloid and TEOS-based precursor. Journal of Sol-Gel Science and Technology, 2008, 48, 336-343.	1.1	16
117	Control of mesoporous properties of carbon cryogels prepared from wattle tannin and furfural. Journal of Porous Materials, 2008, 15, 695-703.	1.3	14
118	Effect of supercritical drying conditions in ethanol on the structural and textural properties of silica aerogels. Journal of Porous Materials, 2008, 15, 705-713.	1.3	27
119	Cellulose Aerogels from Aqueous Alkali Hydroxide–Urea Solution. ChemSusChem, 2008, 1, 149-154.	3.6	327
120	Optimization of instantaneous solvent exchange/surface modification process for ambient synthesis of monolithic silica aerogels. Journal of Colloid and Interface Science, 2008, 322, 224-230.	5.0	51
121	Preparation and characterization of monodisperse carbon cryogel microspheres. Microporous and Mesoporous Materials, 2008, 112, 211-218.	2.2	29
122	Photo-formation of gold nanoparticles: Photoacoustic studies on solid monoliths of Au(III)–chitosan–silica aerogels. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 70, 700-703.	2.0	19
123	Silica aerogel; synthesis, properties and characterization. Journal of Materials Processing Technology, 2008, 199, 10-26.	3.1	1,052
124	Influence of calcination on the microstructures and photocatalytic activity of potassium oxalate-doped TiO2 powders. Applied Catalysis A: General, 2008, 338, 87-99.	2.2	26
125	A novel method for preparing a protein-encapsulated bioaerogel: Using a red fluorescent protein as a model. Acta Biomaterialia, 2008, 4, 725-732.	4.1	31
126	Supercritical fluids applied to the sol–gel process for preparation of AEROMOSILS/palladium particle nanocomposite catalyst. Journal of Supercritical Fluids, 2008, 46, 178-184.	1.6	12
127	Foaming of chitin hydrogels processed by supercritical carbon dioxide. Journal of Supercritical Fluids, 2008, 47, 302-308.	1.6	41
128	Impact of supercritical drying and heat treatment on physical properties of titania/silica aerogel monolithic and its applications. Applied Catalysis A: General, 2008, 346, 200-205.	2.2	57
129	Synthesis and pore analysis of aerogel–glass fiber composites by ambient drying method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 313-314, 179-182.	2.3	67
130	Synthesis of titania–silica aerogel-like microspheres by a water-in-oil emulsion method via ambient pressure drying and their photocatalytic properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 317, 490-495.	2.3	44
131	Improvement of mesoporosity of carbon cryogels by acid treatment of hydrogels. Microporous and Mesoporous Materials, 2008, 115, 432-439.	2.2	14

#	Article	IF	Citations
132	Investigation of self-assembled fractal porous-silica over a wide range of length scales using a combined small-angle scattering method. European Physical Journal B, 2008, 63, 153-163.	0.6	12
133	Nonsupercritically Dried Silica–Alumina Aerogels—Effect of Gelation pH. Journal of the American Ceramic Society, 2008, 91, 1326-1328.	1.9	13
134	Variable refractive indices in mixed oxide xerogels. Scripta Materialia, 2008, 58, 553-555.	2.6	9
136	Effect of Microscopic Structure and Porosity on the Photoluminescence Properties of Silica Gels. Journal of Physical Chemistry C, 2008, 112, 10878-10882.	1.5	21
137	Long and entangled native cellulose I nanofibers allow flexible aerogels and hierarchically porous templates for functionalities. Soft Matter, 2008, 4, 2492.	1.2	595
138	Aerogel materials from marine polysaccharides. New Journal of Chemistry, 2008, 32, 1300.	1.4	250
139	Transparent, Hydrophobic Composite Aerogels with High Mechanical Strength and Low High-Temperature Thermal Conductivities. Journal of Physical Chemistry B, 2008, 112, 11881-11886.	1.2	86
140	Gas Permeability Properties of Mixed-Matrix Matrimid Membranes Containing a Carbon Aerogel:  A Material with Both Micropores and Mesopores. Industrial & Engineering Chemistry Research, 2008, 47, 2794-2802.	1.8	50
142	Development of micro- and nano-porous composite materials by processing cellulose with ionic liquids and supercritical CO2. Green Chemistry, 2008, 10, 965.	4.6	153
143	Polymer nanoencapsulated mesoporous vanadia with unusual ductility at cryogenic temperatures. Journal of Materials Chemistry, 2008, $18,2475.$	6.7	56
144	Glass nanofibers for micro- and nano-scale photonic devices. Journal of Non-Crystalline Solids, 2008, 354, 1240-1244.	1.5	34
145	Analysis of a rapid supercritical extraction aerogel fabrication process: Prediction of thermodynamic conditions during processing. Journal of Non-Crystalline Solids, 2008, 354, 3685-3693.	1.5	30
146	A simple synthesis of catalytically active, high surface area ceria aerogels. Journal of Non-Crystalline Solids, 2008, 354, 5509-5514.	1.5	32
147	In situ dust detection in fusion devices. Plasma Physics and Controlled Fusion, 2008, 50, 124046.	0.9	37
148	Cross-Linking 3D Assemblies of Nanoparticles into Mechanically Strong Aerogels by Surface-Initiated Free-Radical Polymerization. Chemistry of Materials, 2008, 20, 5035-5046.	3.2	112
149	Hypervelocity dust impacts in FTU scrape-off layer. Nuclear Fusion, 2008, 48, 015006.	1.6	38
150	Photoluminescent Porous Alginate Hybrid Materials Containing Lanthanide Ions. Biomacromolecules, 2008, 9, 1945-1950.	2.6	46
151	The influence of composition and porosity on the magnetic properties of FeCo–SiO2nanocomposite aerogels. Physical Chemistry Chemical Physics, 2008, 10, 1043-1052.	1.3	31

#	Article	IF	CITATIONS
152	Reinforcing polymer cross-linked aerogels with carbon nanofibers. Journal of Materials Chemistry, 2008, 18, 1843.	6.7	115
153	Water Gas Shift Catalysis Using Iron Aerogels Doped with Palladium by the Gas-Phase Incorporation Method. Energy & Doped & Samp; Fuels, 2008, 22, 1439-1443.	2.5	15
154	Characterization of a Gel in the Cell Wall To Elucidate the Paradoxical Shrinkage of Tension Wood. Biomacromolecules, 2008, 9, 494-498.	2.6	90
155	Multiscale Computer Simulation of Tensile Failure in Polymer-Coated Silica Aerogels. Materials Research Society Symposia Proceedings, 2008, 1130, 61401.	0.1	0
156	Elastic Aerogels and Xerogels Synthesized from Methyltrimethoxysilane (MTMS). Materials Research Society Symposia Proceedings, 2008, 1134, 1.	0.1	2
157	Fabrication of the Monolithic Silica Aerogels Using Sodium Silicate and its Network Strengthening. Key Engineering Materials, 0, 368-372, 790-793.	0.4	0
158	Torsional Oscillator and Synchrotron X-Ray Experiments on Solid <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts></mml:mprescripts><mml:none></mml:none><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math> in Aerogel. Physical Review Letters, 2008,	2.9	30
160	101, 165303. Hybrid Nanomaterial Scaffolds for Specific Biomedical Applications. Materials Research Society Symposia Proceedings, 2009, 1237, 1.	0.1	0
161	Functional Silica Aerogels with High Specific Surface Area: Influence of Preparation Conditions on Structure Properties. Advanced Materials Research, 0, 79-82, 2039-2042.	0.3	1
162	Capture by aerogel—characterization of mobile dust in tokamak scrape-off layer plasmas. Nuclear Fusion, 2009, 49, 122001.	1.6	34
163	Multiscale Computer Simulation of Tensile and Compressive Strain in Polymer-Coated Silica Aerogels. Materials Research Society Symposia Proceedings, 2009, 1224, 1.	0.1	0
164	Mesoporosity as a new parameter for understanding tension stress generation in trees. Journal of Experimental Botany, 2009, 60, 3023-3030.	2.4	200
165	Nanorods of all organic porous m-cresol–formaldehyde having photoluminescence at room temperature. Materials Chemistry and Physics, 2009, 114, 785-788.	2.0	4
166	The control of porosity at nano scale in resorcinol formaldehyde carbon aerogels. Journal of Materials Science, 2009, 44, 2705-2713.	1.7	57
167	Ammoxidation of ethylene to acetonitrile over chromium or cobalt alumina catalysts prepared by sol–gel method. Journal of Sol-Gel Science and Technology, 2009, 49, 170-179.	1.1	17
168	Polyurea based aerogel for a high performance thermal insulation material. Journal of Sol-Gel Science and Technology, 2009, 49, 209-220.	1.1	117
169	Porous texture of silica aerogels made with ionic liquids as gelation catalysts. Journal of Sol-Gel Science and Technology, 2009, 49, 364-372.	1.1	27
170	Effect of 3-glycidoxypropyltrimethoxysilane precursor on the properties of ambient pressure dried silica aerogels. Journal of Sol-Gel Science and Technology, 2009, 50, 353-358.	1.1	15

#	Article	IF	Citations
171	Partial transesterification of sunflower oil with ethanol by a silica fiber reinforced aerogel encapsulated lipase. Journal of Sol-Gel Science and Technology, 2009, 52, 276-286.	1.1	10
172	Silica–titania aerogel monoliths with large pore volume and surface area by ambient pressure drying. Journal of Sol-Gel Science and Technology, 2009, 52, 328-334.	1.1	40
173	Ultra-porous flexible PET/Aerogel blanket for sound absorption and thermal insulation. Fibers and Polymers, 2009, 10, 731-737.	1.1	91
174	Synthesis of cobalt oxide aerogels and nanocomposite systems containing singleâ€walled carbon nanotubes. Scanning, 2009, 31, 132-138.	0.7	14
175	Chitin and carbon aerogels from chitin alcogels. Carbohydrate Polymers, 2009, 76, 535-540.	5.1	67
176	Chlorobenzene, chloroform, and carbon tetrachloride adsorption on undoped and metal-doped sol–gel substrates (SiO2, Ag/SiO2, Cu/SiO2 and Fe/SiO2). Journal of Hazardous Materials, 2009, 162, 254-263.	6.5	17
177	Mesoporous TiO2–SiO2 aerogels with hierarchal pore structures. Microporous and Mesoporous Materials, 2009, 117, 570-579.	2.2	131
178	Cobalt ferrite aerogels by epoxide sol–gel addition: Efficient catalysts for the hydrolysis of 4-nitrophenyl phosphate. Journal of Molecular Catalysis A, 2009, 312, 18-22.	4.8	22
179	Morphology and structure of YSZ powders: Comparison between xerogel and aerogel. Ceramics International, 2009, 35, 3427-3433.	2.3	47
180	One-pot biomimetic synthesis of monolithic titania through mineralization of polysaccharide. Colloids and Surfaces B: Biointerfaces, 2009, 74, 172-177.	2.5	20
181	Surface Chemistry, Porous Texture, and Morphology of N-Doped Carbon Xerogels. Langmuir, 2009, 25, 466-470.	1.6	93
182	Synthesis of C-functionalized acetylacetone and its europium complex. Preparation and study of luminescence of europium-containing sol-gel films. Russian Journal of General Chemistry, 2009, 79, 1802-1810.	0.3	5
183	Fabrication of Solâ^'Gel Materials with Anisotropic Physical Properties by Photo-Cross-Linking. Chemistry of Materials, 2009, 21, 2108-2114.	3.2	18
184	Cobalt Oxide Aerogels of Ideal Supercapacitive Properties Prepared with an Epoxide Synthetic Route. Chemistry of Materials, 2009, 21, 3228-3233.	3.2	278
185	Hybrid Materials Combining Photoactive 2,3-DidecyloxyAnthracene Physical Gels and Gold Nanoparticles. Chemistry of Materials, 2009, 21, 3424-3432.	3.2	61
186	A New Class of Opacified Monolithic Aerogels of Ultralow High-Temperature Thermal Conductivities. Journal of Physical Chemistry C, 2009, 113, 7424-7428.	1.5	66
187	Monolithic copper oxide aerogel via dispersed inorganic sol–gel method. Journal of Non-Crystalline Solids, 2009, 355, 175-181.	1.5	47
188	Microstructural characterization of the V-doped nano-titania. Journal of Alloys and Compounds, 2009, 482, 256-260.	2.8	12

#	Article	IF	CITATIONS
189	Tailoring Elastic Properties of Silica Aerogels Cross-Linked with Polystyrene. ACS Applied Materials & Elastic Properties of Silica Aerogels Cross-Linked with Polystyrene. ACS Applied Materials & Elastic Properties of Silica Aerogels Cross-Linked with Polystyrene. ACS Applied Materials & Elastic Properties of Silica Aerogels Cross-Linked with Polystyrene. ACS Applied Materials & Elastic Properties of Silica Aerogels Cross-Linked with Polystyrene. ACS Applied Materials & Elastic Properties of Silica Aerogels Cross-Linked with Polystyrene.	4.0	156
190	Polycondensation and Stabilization of Chirally Ordered Molecular Organogels Derived from Alkoxysilyl Group- Containing <scp>l</scp> -Glutamide Lipid. Langmuir, 2009, 25, 8428-8433.	1.6	12
191	Tuning the Optical Band Gap of Quantum Dot Assemblies by Varying Network Density. ACS Nano, 2009, 3, 2000-2006.	7.3	39
192	Elastic low density aerogels derived from bis[3-(triethoxysilyl)propyl]disulfide, tetramethylorthosilicate and vinyltrimethoxysilane via a two-step process. Journal of Materials Chemistry, 2009, 19, 9054.	6.7	57
193	Iron Aerogel and Xerogel Catalysts for Fischerâ "Tropsch Synthesis of Diesel Fuel. Energy & E	2.5	33
194	Structureâ "Property Relationships in Porous 3D Nanostructures: Epoxy-Cross-Linked Silica Aerogels Produced Using Ethanol as the Solvent. ACS Applied Materials & Interfaces, 2009, 1, 894-906.	4.0	122
195	Porous Alginate Hydrogels: Synthetic Methods for Tailoring the Porous Texture. Biomacromolecules, 2009, 10, 2328-2337.	2.6	94
196	Cellulosic aerogels as ultra-lightweight materials. Part 2: Synthesis and properties 2 nd ICC 2007, Tokyo, Japan, October 25–29, 2007. Holzforschung, 2009, 63, 3-11.	0.9	81
197	Flexible Nanofiber-Reinforced Aerogel (Xerogel) Synthesis, Manufacture, and Characterization. ACS Applied Materials & Description (Xerogel) 1, 2491-2501.	4.0	150
198	Evaluation of Commercially Available Carbon Fibers, Fabrics, and Papers for Potential Use in Multifunctional Energy Storage Applications. Journal of the Electrochemical Society, 2009, 156, A215.	1.3	138
199	Solid state nanofibers based on self-assemblies: from cleaving from self-assemblies to multilevel hierarchical constructs. Faraday Discussions, 2009, 143, 95.	1.6	34
200	Strong, Low-Density Nanocomposites by Chemical Vapor Deposition and Polymerization of Cyanoacrylates on Aminated Silica Aerogels. ACS Applied Materials & Eamp; Interfaces, 2009, 1, 1364-1369.	4.0	94
201	Naturally inspired nitrogen doped porous carbon. Journal of Materials Chemistry, 2009, 19, 8645.	6.7	200
202	Clay aerogel/cellulose whisker nanocomposites: a nanoscale wattle and daub. Journal of Materials Chemistry, 2009, 19, 2118.	6.7	146
204	One-Pot Synthesis of Interpenetrating Inorganic/Organic Networks of CuO/Resorcinol-Formaldehyde Aerogels: Nanostructured Energetic Materials. Journal of the American Chemical Society, 2009, 131, 4576-4577.	6.6	131
205	Sol–gel synthesis of ladder polysilsesquioxanes forming chiral conformations and hexagonal stacking structures. Journal of Materials Chemistry, 2009, 19, 7106.	6.7	35
206	Preparation of TiO2 aerogels by a sol-gel combined solvothermal route. Journal of Materials Chemistry, 2009, 19, 3078.	6.7	21
207	A Transmission Electron Microscopy Study of Fe-Co Alloy Nanoparticles in Silica Aerogel Matrix Using HREM, EDX, and EELS. Microscopy and Microanalysis, 2009, 15, 114-124.	0.2	6

#	Article	IF	CITATIONS
208	Sol-gel synthesis, porous structure, and mechanical property of polymethylsilsesquioxane aerogels. Journal of the Ceramic Society of Japan, 2009, 117, 1333-1338.	0.5	42
210	Membranes., 2009,, 467-490.		1
211	Structure of Adsorbents, Ion Exchangers, Ion Conductors, Catalysts, and Permeable Materials. , 2009, , 63-102.		0
212	Synthesis Methods of Catalyst Adsorbents, Ion Exchangers, and Permeable Materials. , 2009, , 103-135.		0
213	Adsorption in Nanoporous Materials. , 2009, , 275-338.		0
214	A Transmission Electron Microscopy Study of CoFe2O4 Ferrite Nanoparticles in Silica Aerogel Matrix Using HREM and STEM Imaging and EDX Spectroscopy and EELS. Microscopy and Microanalysis, 2010, 16, 200-209.	0.2	6
215	Formation of Reactive Microporous Networks from Alkoxyvinylsilylated Siloxane Cages. Bulletin of the Chemical Society of Japan, 2010, 83, 424-430.	2.0	18
216	Ultralight Multiwalled Carbon Nanotube Aerogel. ACS Nano, 2010, 4, 7293-7302.	7.3	477
217	Integration of sol–gel derived inorganic nanonetworks into polymers. Polymer Chemistry, 2010, 1, 1226.	1.9	4
218	A novel three-dimensional aerogel biochip for molecular recognition of nucleotide acids. Acta Biomaterialia, 2010, 6, 1462-1470.	4.1	29
219	Effect of surface modification conditions on the synthesis of mesoporous crack-free silica aerogel monoliths from waterglass via ambient-drying. Microporous and Mesoporous Materials, 2010, 130, 295-302.	2.2	58
220	Interface-directed sol-gel: direct fabrication of the covalently attached ultraflat inorganic oxide pattern on functionalized plastics. Science China Chemistry, 2010, 53, 173-182.	4.2	13
221	Immobilization of penicillin G acylase onto amino-modified silica hydrogel. Frontiers of Chemical Engineering in China, 2010, 4, 87-90.	0.6	2
222	Drying of aerogel-bonded sands. Journal of Materials Science, 2010, 45, 3974-3980.	1.7	5
223	Synthesis of gadolinia-doped ceria gels and powders from acetylacetonate precursors. Journal of Sol-Gel Science and Technology, 2010, 53, 1-11.	1.1	18
224	Hydrophobic silica aerogels prepared via rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2010, 53, 199-207.	1.1	43
225	Controlled fabrication of porous Al2O3 ceramic by N,N′-dimethylformamide-based gel-casting. Scripta Materialia, 2010, 62, 602-605.	2.6	22
226	A Costâ€Effective Supercapacitor Material of Ultrahigh Specific Capacitances: Spinel Nickel Cobaltite Aerogels from an Epoxideâ€Driven Sol–Gel Process. Advanced Materials, 2010, 22, 347-351.	11.1	1,108

#	Article	IF	CITATIONS
227	Importance of the Conditioning of the Chitosan Support in a Catalystâ€Containing Ionic Liquid Phase Immobilised on Chitosan: The Palladiumâ€Catalysed Allylation Reaction Case. Advanced Synthesis and Catalysis, 2010, 352, 433-439.	2.1	34
228	Preparing titania aerogel monolithic chromatography columns using supercritical carbon dioxide. Journal of Separation Science, 2010, 33, 1604-1609.	1.3	22
229	Fabrication of hydrophobic alumina aerogel monoliths by surface modification and ambient pressure drying. Applied Surface Science, 2010, 256, 5973-5977.	3.1	59
230	Analysis of the effect of drying conditions on the structural and surface heterogeneity of silica aerogels and xerogel by using cryogenic nitrogen adsorption characterization. Microporous and Mesoporous Materials, 2010, 129, 1-10.	2.2	10
231	Reduction in the processing time of doped sodium silicate based ambient pressure dried aerogels using shaker. Microporous and Mesoporous Materials, 2010, 134, 93-99.	2.2	16
232	Second-harmonic generation in nano-structured - and -xerogels with randomly oriented ferroelectric grains. Optical Materials, 2010, 32, 504-509.	1.7	10
233	Bright nickel film deposited by supercritical carbon dioxide emulsion using additive-free Watts bath. Electrochimica Acta, 2010, 55, 6469-6475.	2.6	67
234	Synthesis and Characterization of Silica/Carbon Composite Aerogels. Journal of the American Ceramic Society, 2010, 93, 1156-1163.	1.9	51
235	Effects of Starting Compositions on the Properties of Methylsilsesquioxane Aerogels. Materials Research Society Symposia Proceedings, 2010, 1247, 1.	0.1	0
236	Carbon Nanomaterials in Silica Aerogel Matrices. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	2
237	Theory of heat transport of normal liquid3He in aerogel. New Journal of Physics, 2010, 12, 083056.	1.2	3
238	Aerogel Catalysts. Advances in Science and Technology, 0, , .	0.2	3
239	Tailored Silica Based Xerogels and Aerogels for Insulation in Space Environments. Advances in Science and Technology, 0, , .	0.2	15
240	Silica Aerogel: Synthesis and Applications. Journal of Nanomaterials, 2010, 2010, 1-11.	1.5	536
241	From Natural Polysaccharides to Materials for Catalysis, Adsorption, and Remediation. Topics in Current Chemistry, 2010, 294, 165-197.	4.0	50
242	Fabrication of Crystalline Mesoporous Metal Oxides and Sulfides. Inorganic Chemistry, 2010, 49, 1191-1197.	1.9	19
243	Photocatalytic degradation of aqueous organic pollutants using titania supported periodic mesoporous silica. Energy and Environmental Science, 2010, 3, 608.	15.6	27
244	Epoxy Reinforced Aerogels Made Using a Streamlined Process. ACS Applied Materials & Samp; Interfaces, 2010, 2, 2162-2168.	4.0	80

#	Article	IF	CITATIONS
245	Synthesis and characterization of zirconium-doped mesoporous nano-crystalline TiO2. Nanoscale, 2010, 2, 1222.	2.8	78
246	Conducting polymer aerogels from supercritical CO2 drying PEDOT-PSS hydrogels. Journal of Materials Chemistry, 2010, 20, 5080.	6.7	109
247	Study of the Interaction between Silica Surfaces and the Carbon Dioxide Molecule. Journal of Physical Chemistry C, 2010, 114, 17773-17787.	1.5	67
248	Ironâ^'Ceria Aerogels Doped with Palladium as Waterâ^'Gas Shift Catalysts for the Production of Hydrogen. Industrial & Department of Hydrogen. Industrial & Dep	1.8	11
249	Synthesis, Texture, and Photoluminescence of Lanthanide-Containing Chitosanâ [^] Silica Hybrids. Journal of Physical Chemistry B, 2010, 114, 77-83.	1.2	33
250	Pore Structure and Interconnectivity of CdS Aerogels and Xerogels by Hyperpolarized Xenon NMR. Journal of Physical Chemistry C, 2010, 114, 13187-13195.	1.5	22
251	Effect of different chemical additives and heat-treatment on ambient pressure dried silica aerogels. Journal of Experimental Nanoscience, 2010, 5, 83-91.	1.3	7
252	Structural Relationships in 2,3-Bis- <i>n</i> -decyloxyanthracene and 12-Hydroxystearic Acid Molecular Gels and Aerogels Processed in Supercritical CO ₂ . Journal of Physical Chemistry B, 2010, 114, 11409-11419.	1.2	22
253	Influence of Chemical Conditions on the Nanoporous Structure of Silicate Aerogels. Materials, 2010, 3, 704-740.	1.3	130
254	Physicochemical and biological activity study of genipin-crosslinked chitosan scaffolds prepared by using supercritical carbon dioxide for tissue engineering applications. International Journal of Biological Macromolecules, 2010, 46, 261-266.	3.6	51
255	Elastic Behavior of Methyltrimethoxysilane Based Aerogels Reinforced with Tri-Isocyanate. ACS Applied Materials & Diterfaces, 2010, 2, 1430-1443.	4.0	92
256	One-step room-temperature synthesis of fibrous polyimide aerogels from anhydrides and isocyanates and conversion to isomorphic carbons. Journal of Materials Chemistry, 2010, 20, 9666.	6.7	134
257	Gas phase synthesis of titania with aerogel character and its application as a support in oxidation catalysis. Journal of Materials Chemistry, 2010, 20, 10032.	6.7	6
258	Multifunctional Polyurea Aerogels from Isocyanates and Water. A Structureâ^'Property Case Study. Chemistry of Materials, 2010, 22, 6692-6710.	3.2	163
259	Influence of Electrolyte and Polymer Loadings on Mechanical Properties of Clay Aerogels. Langmuir, 2010, 26, 12198-12202.	1.6	43
260	Monolithic Zinc Oxide Aerogels from Organometallic Solâ^'Gel Precursors. Chemistry of Materials, 2010, 22, 5129-5136.	3.2	47
261	Cellulose Biocomposites—From Bulk Moldings to Nanostructured Systems. MRS Bulletin, 2010, 35, 201-207.	1.7	168
262	Template-Free Synthesis of Organically Modified Silica Mesoporous Thin Films for TNT Sensing. ACS Applied Materials & Description (2010), 2, 2892-2897.	4.0	33

#	Article	IF	CITATIONS
263	Highly porous and monodisperse magnetic silica beads prepared by a green templating method. Journal of Materials Chemistry, 2010, 20, 4916.	6.7	27
264	Preparation of highly porous \hat{I}^3 -alumina via combustion of biorenewable oil. Journal of Materials Chemistry, 2010, 20, 5923.	6.7	12
265	Aerogel materials for insulation in buildings. , 2010, , 319-344.		4
266	Synthesis of conducting polymer hydrogels with 2D building blocks and their potential-dependent gel–sol transitions. Chemical Communications, 2011, 47, 6287.	2.2	55
267	The impact of carbon materials on the hydrogen storage properties of light metal hydrides. Journal of Materials Chemistry, 2011, 21, 2417-2427.	6.7	156
268	Stimuli-responsive gels as reaction vessels and reusable catalysts. Chemical Society Reviews, 2011, 40, 427-448.	18.7	389
269	A versatile sol–gel route to monolithic oxidic gels via polyacrylic acid template. New Journal of Chemistry, 2011, 35, 1096.	1.4	35
270	Fabrication of functionally graded aerogels, cellular aerogels and anisotropic ceramics. Journal of Materials Chemistry, 2011, 21, 11737.	6.7	25
271	Hierarchical porous carbonaceous materials via ionothermal carbonization of carbohydrates. Journal of Materials Chemistry, 2011, 21, 7434.	6.7	131
272	Synthesis and Characterization of Nickel-Based Monolithic Aerogel via Sol-Gel Method. Advanced Materials Research, 0, 335-336, 368-371.	0.3	5
273	Defect-Free Nickel Micropillars Fabricated at a High Current Density by Application of a Supercritical Carbon Dioxide Emulsion. Industrial & Engineering Chemistry Research, 2011, 50, 8080-8085.	1.8	7
274	Synthesis, characterization and cataluminescence properties of three aerogels., 2011,,.		0
275	Resorcinol–Formaldehyde Aerogels. , 2011, , 215-234.		14
276	Mechanically strong and highly conductive graphene aerogel and its use as electrodes for electrochemical power sources. Journal of Materials Chemistry, 2011, 21, 6494.	6.7	915
277	Carbon Aerogel Composites Prepared by Ambient Drying and Using Oxidized Polyacrylonitrile Fibers as Reinforcements. ACS Applied Materials & Samp; Interfaces, 2011, 3, 4796-4803.	4.0	133
278	Inorganic Hollow Nanotube Aerogels by Atomic Layer Deposition onto Native Nanocellulose Templates. ACS Nano, 2011, 5, 1967-1974.	7.3	292
279	Ultralight and highly flexible aerogels with long cellulose I nanofibers. Soft Matter, 2011, 7, 10360.	1.2	204
280	Nitrogen-doped carbon xerogel: A novel carbon-based electrocatalyst for oxygen reduction reaction in proton exchange membrane (PEM) fuel cells. Energy and Environmental Science, 2011, 4, 3389.	15.6	171

#	Article	IF	CITATIONS
281	Synthesis of New Flexible Aerogels from MTMS/DMDMS via Ambient Pressure Drying. IOP Conference Series: Materials Science and Engineering, 2011, 18, 032013.	0.3	11
282	Hydrophobic Silica Aerogels: Review of Synthesis, Properties and Applications. , 2011, , 47-77.		24
283	A sustainable synthesis of nitrogen-doped carbon aerogels. Green Chemistry, 2011, 13, 2428.	4.6	185
284	Aligned/Unaligned Conducting Polymer Cryogels with Three-Dimensional Macroporous Architectures from Ice-Segregation-Induced Self-Assembly of PEDOT-PSS. Langmuir, 2011, 27, 1915-1923.	1.6	83
285	Polyimide Aerogels Cross-Linked through Amine Functionalized Polyoligomeric Silsesquioxane. ACS Applied Materials & Samp; Interfaces, 2011, 3, 546-552.	4.0	256
286	Dilution and resonance-enhanced repulsion in nonequilibrium fluctuation forces. Physical Review A, 2011, 84, .	1.0	24
287	New flexible aerogels and xerogels derived from methyltrimethoxysilane/dimethyldimethoxysilane co-precursors. Journal of Materials Chemistry, 2011, 21, 17077.	6.7	122
288	Scanning Transmission Electron Microscopy Study of the Evolution of Needle-Like Nanostructures in CoFe2O4and NiFe2O4Silica Nanocomposite Aerogels. Journal of Physical Chemistry C, 2011, 115, 5358-5365.	1.5	4
291	Fe-doped TiO ₂ /SiO ₂ Aerogel Microspheres for Visible Light Photocatalysis Degradation of Methylene Blue. Advanced Materials Research, 2011, 239-242, 2993-2996.	0.3	1
292	Chitosan Aerogels Exhibiting High Surface Area for Biomedical Application: Preparation, Characterization, and Antibacterial Study. International Journal of Polymeric Materials and Polymeric Biomaterials, 2011, 60, 988-999.	1.8	67
293	Ultralow density, hollow silica foams produced through interfacial reaction and their exceptional properties for environmental and energy applications. Journal of Materials Chemistry, 2011, 21, 12041.	6.7	38
294	Aerogels and Polymorphism of Isotactic Poly(4-methyl-pentene-1). ACS Applied Materials & Samp; Interfaces, 2011, 3, 969-977.	4.0	49
295	Aerogels Handbook., 2011,,.		409
296	Multifunctional porous aramids (aerogels) by efficient reaction of carboxylic acids and isocyanates. Journal of Materials Chemistry, 2011, 21, 11981.	6.7	84
297	Mechanisms of Hydrolysis–Oligomerization of Aluminum Alkoxide Al(OC ₃ H ₇) ₃ . Journal of Physical Chemistry A, 2011, 115, 4719-4728.	1.1	25
298	Polyimide Aerogels by Ring-Opening Metathesis Polymerization (ROMP). Chemistry of Materials, 2011, 23, 2250-2261.	3.2	134
299	Applications of advanced hybrid organic–inorganic nanomaterials: from laboratory to market. Chemical Society Reviews, 2011, 40, 696.	18.7	1,235
300	Simulation of the microstructural evolution of a polymer crosslinked templated silica aerogel under high-strain-rate compression. Journal of Non-Crystalline Solids, 2011, 357, 2063-2074.	1.5	25

#	Article	IF	CITATIONS
301	Mechanical properties of polymer-modified silica aerogels dried under ambient pressure. Journal of Non-Crystalline Solids, 2011, 357, 3447-3453.	1.5	42
302	Template-free co-assembly of preformed Au and TiO2 nanoparticles into multicomponent 3D aerogels. Journal of Materials Chemistry, 2011, 21, 16893.	6.7	77
303	Perfluoroalkyl bile esters: a new class of efficient gelators of organic and aqueous–organic media. Journal of Materials Chemistry, 2011, 21, 14693.	6.7	24
304	Titania and Pt/titania aerogels as superior mesoporous structures for photocatalytic water splitting. Journal of Materials Chemistry, 2011, 21, 12668.	6.7	41
305	Synthesis of New Flexible Aerogels from Di- and Trifunctional Organosilanes. Materials Research Society Symposia Proceedings, 2011, 1306, 1.	0.1	4
306	HCl Treatment on Micropore and Mesopore Structures of Carbon Cryogels from Resorcinol and Formaldehyde. Journal of Chemical Engineering of Japan, 2011, 44, 110-117.	0.3	3
307	Organic-inorganic hybrid aerogels with high mechanical properties via organotrialkoxysilane-derived sol-gel process. Journal of the Ceramic Society of Japan, 2011, 119, 16-22.	0.5	49
308	Pore Structure and Mechanical Properties of Poly(methylsilsesquioxane) Aerogels. IOP Conference Series: Materials Science and Engineering, 2011, 18, 032001.	0.3	4
309	Completely functional composite cathode material based on an aerogel of vanadium oxides. Mendeleev Communications, 2011, 21, 315-317.	0.6	4
310	Porous YSZ ceramics with unidirectionally aligned pore channel structure: Lowering thermal conductivity by silica aerogels impregnation. Journal of the European Ceramic Society, 2011, 31, 2915-2922.	2.8	27
311	Studies of mobile dust in scrape-off layer plasmas using silica aerogel collectors. Journal of Nuclear Materials, 2011, 415, S1089-S1093.	1.3	6
312	Preparation and surface modification mechanism of silica aerogels via ambient pressure drying. Materials Chemistry and Physics, 2011, 129, 308-314.	2.0	70
313	Characterization of iron(III) oxide/hydroxide nanostructured materials produced by sol–gel technology based on the Fe(NO3)3·9H2O–C2H5OH–CH3CHCH2O system. Materials Chemistry and Physics, 2011, 130, 548-560.	2.0	15
314	Investigations on the effect of experimental parameters on the porosity features of silica aerogels synthesized at ambient drying conditions. Materials Chemistry and Physics, 2011, 131, 507-511.	2.0	2
315	One-pot hydrothermal synthesis of a hierarchical nanofungus-like anatase TiO2 thin film for photocatalytic oxidation of bisphenol A. Applied Catalysis B: Environmental, 2011, 110, 260-272.	10.8	77
316	Three-dimensional arrayed amino aerogel biochips for molecular recognition of antigens. Biomaterials, 2011, 32, 7347-7354.	5.7	21
317	Polysaccharide-based aerogelsâ€"Promising biodegradable carriers for drug delivery systems. Carbohydrate Polymers, 2011, 86, 1425-1438.	5.1	602
318	Template free preparation of nanoporous organically modified silica thin films on flexible substrates. Journal of Materials Chemistry, 2011, 21, 14830.	6.7	31

#	Article	IF	CITATIONS
319	Controlled pore formation in organotrialkoxysilane-derived hybrids: from aerogels to hierarchically porous monoliths. Chemical Society Reviews, 2011, 40, 754-770.	18.7	204
320	Special Techniques., 2011,, 315-390.		2
321	Tailoring Mechanical Properties of Aerogels for Aerospace Applications. ACS Applied Materials & Amp; Interfaces, 2011, 3, 613-626.	4.0	482
322	Synthesis and properties of TiO2-based nanomaterials. Theoretical Foundations of Chemical Engineering, 2011, 45, 731-738.	0.2	5
323	Ultraflexible plasmonic nanocomposite aerogel. RSC Advances, 2011, 1, 1265.	1.7	23
324	Strong, low density, hexylene- and phenylene-bridged polysilsesquioxane aerogel–polycyanoacrylate composites. Journal of Materials Science, 2011, 46, 6371-6377.	1.7	25
325	High surface area methyltriethoxysilane-derived aerogels by ambient pressure drying. Journal of Porous Materials, 2011, 18, 159-165.	1.3	30
326	Biomaterials obtained by gelation of silica precursor with CO2 saturated water containing a carbonic anhydrase enzyme. Journal of Sol-Gel Science and Technology, 2011, 58, 442-451.	1.1	13
327	New technology for rapid processing and moulding of silica aerogel materials in prescribed shapes and sizes and their characterization. Journal of Sol-Gel Science and Technology, 2011, 58, 481-489.	1.1	17
328	Shrinkage and pore structure in preparation of carbon aerogels. Journal of Sol-Gel Science and Technology, 2011, 59, 371-380.	1.1	55
329	Simultaneous determination of sorption, heat of sorption, diffusion coefficient and glass transition depression in polymer–CO2 systems. Thermochimica Acta, 2011, 521, 98-106.	1.2	29
330	Synthesis and Characterization of Mesoporous Hybrid Silica-Polyacrylamide Aerogels and Xerogels. Silicon, 2011, 3, 63-75.	1.8	28
331	Preparation, characterization, and oxidation catalysis of H3PMo12O40 heteropolyacid catalyst immobilized on carbon aerogel. Korean Journal of Chemical Engineering, 2011, 28, 79-83.	1.2	8
332	Nanoparticle–Loaded Aerogels and Layered Aerogels Cast from Sol–Gel Mixtures. Small, 2011, 7, 2568-2572.	5.2	10
333	Photoswitchable Superabsorbency Based on Nanocellulose Aerogels. Advanced Functional Materials, 2011, 21, 510-517.	7.8	240
335	Extension of The Stöber Method to the Preparation of Monodisperse Resorcinol–Formaldehyde Resin Polymer and Carbon Spheres. Angewandte Chemie - International Edition, 2011, 50, 5947-5951.	7.2	745
336	Nanosized Vanadium, Tungsten and Molybdenum Oxide Clusters Grown in Porous Chitosan Microspheres as Promising Hybrid Materials for Selective Alcohol Oxidation. Chemistry - A European Journal, 2011, 17, 7940-7946.	1.7	46
337	Ultralight conducting polymer/carbon nanotube composite aerogels. Carbon, 2011, 49, 1884-1893.	5.4	81

#	Article	IF	CITATIONS
338	Preparation of stable carbon nanotube aerogels with high electrical conductivity and porosity. Carbon, 2011, 49, 2352-2361.	5.4	98
339	Low-cost production of mesoporous carbon/carbon composite cryogels. Carbon, 2011, 49, 3404-3411.	5.4	23
340	Nitrogen sorption as a tool for the characterisation of polysaccharide aerogels. Carbohydrate Polymers, 2011, 85, 44-53.	5.1	67
341	Aerogel insulation for building applications: A state-of-the-art review. Energy and Buildings, 2011, 43, 761-769.	3.1	859
342	Influence of solvent species used in solvent exchange for preparation of mesoporous carbon xerogels from resorcinol and formaldehyde via subcritical drying. Microporous and Mesoporous Materials, 2011, 138, 8-16.	2.2	44
343	Chitosan templated synthesis of porous metal oxide microspheres with filamentary nanostructures. Microporous and Mesoporous Materials, 2011, 142, 301-307.	2.2	76
344	Structure-dependent catalytic oxidation of H2S over Na2CO3 impregnated carbon aerogels. Microporous and Mesoporous Materials, 2011, 142, 641-648.	2.2	39
345	Sol–gel synthesis of iron(III) oxyhydroxide nanostructured monoliths using Fe(NO3)3·9H2O/CH3CH2OH/NH4OH ternary system. Journal of Physics and Chemistry of Solids, 2011, 72, 678-684.	1.9	14
346	Polymeric hydrogels and supercritical fluids: The mechanism of hydrogel foaming. Polymer, 2011, 52, 2819-2826.	1.8	38
347	Synthesis and structure of polymerizable titanium complexes: elaboration of new mesoporous organometallic materials. Tetrahedron Letters, 2011, 52, 3982-3986.	0.7	2
348	A new scanning electron microscopy approach to image aerogels at the nanoscale. Nanotechnology, 2011, 22, 175704.	1.3	5
349	Synthesis of a Low-Density Copper Oxide Monolithic Aerogel Using Inorganic Salt Precursor. Advanced Materials Research, 0, 217-218, 1165-1169.	0.3	2
350	Magnetic Nanocomposite Aerogels. Materials Research Society Symposia Proceedings, 2011, 1306, 1.	0.1	1
351	Review of Latest Developments in Microporous Aerogel for Building Applications. Applied Mechanics and Materials, 0, 71-78, 1967-1970.	0.2	5
352	Formation of Light-weight Low-density Materials via Gas Phase Aerosol Gelation. Materials Research Society Symposia Proceedings, 2011, 1306, 1.	0.1	1
353	Improving Elastic Properties of Polymer-Reinforced Aerogels. , 2011, , 315-334.		9
354	SiO2 Aerogels. , 2011, , 21-45.		49
355	A Robust Approach to Inorganic Aerogels: The Use of Epoxides in Sol–Gel Synthesis. , 2011, , 155-170.		10

#	Article	IF	CITATIONS
356	A Review of Aerogels and Their Application as a Multi-functional Building Material. Applied Mechanics and Materials, 0, 253-255, 564-567.	0.2	4
357	Synthesis and Structure of Zinc Oxide Aerogel. Advanced Materials Research, 0, 532-533, 140-143.	0.3	1
358	One Pot Synthesis of Multifunctional Aramid Aerogels. Materials Research Society Symposia Proceedings, 2012, 1403, 126.	0.1	2
360	Synthesis, characterisation and magnetic examination of Fe, Co and Ni doped carbon xerogels. Materials Research Innovations, 2012, 16, 362-367.	1.0	6
361	Advances in monolithic porous materials tailored in liquid media: around inorganic oxides and organic polymers. Journal of the Ceramic Society of Japan, 2012, 120, 1-10.	0.5	6
362	Versatility of heterogeneous photocatalysis: synthetic methodologies epitomizing the role of silica support in TiO2 based mixed oxides. Catalysis Science and Technology, 2012, 2, 1737.	2.1	94
363	Ordered Mesoporous Materials as Catalysts. Advances in Catalysis, 2012, 55, 127-239.	0.1	45
364	Cellulose nanocrystals and microfibrillated cellulose as building blocks for the design of hierarchical functional materials. Journal of Materials Chemistry, 2012, 22, 20105.	6.7	245
365	Porous organic–inorganic hybrid aerogels based on Cr ³⁺ /Fe ³⁺ and rigid bridging carboxylates. Journal of Materials Chemistry, 2012, 22, 1862-1867.	6.7	87
366	From Flexible to Hard Polyurethane Aerogels: The Effect of Molecular Functionality vs. Molecular Rigidity. Materials Research Society Symposia Proceedings, 2012, 1403, 114.	0.1	2
367	Lead Selenide Nanostructured Aerogels and Xerogels. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 2598-2603.	0.6	12
368	Improvement in optical and physical properties of TEOS based aerogels using acetonitrile via ambient pressure drying. Ceramics International, 2012, 38, 6883-6888.	2.3	23
369	Synthesis of polymer/inorganic nanocomposite films using highly porous inorganic scaffolds. Nanoscale, 2012, 4, 2326.	2.8	15
370	Nanostructured layered double hydroxide aerogels with enhanced adsorption properties. Chemical Communications, 2012, 48, 7197.	2.2	12
371	Facile preparation of robust and biocompatible chitin aerogels. Journal of Materials Chemistry, 2012, 22, 5801.	6.7	163
372	Preparation of Hydrophobic Silica Aerogels from Industrial Microsilica and its Oil Adsorption Properties. Key Engineering Materials, 2012, 531-532, 103-107.	0.4	1
373	Facile Method To Prepare TiO ₂ Hollow Fiber Materials via Replication of Cotton Fiber. Industrial & Description of Cotton Fiber. 1391-1395.	1.8	38
374	Magnetic hydrophobic nanocomposites: Silica aerogel/maghemite. Physica B: Condensed Matter, 2012, 407, 3113-3116.	1.3	12

#	Article	IF	CITATIONS
375	Nickel and palladium nanocomposite carbon aerogels as recyclable catalysts for Suzuki–Miyaura reaction under aerobic and phosphine-free conditions in water. Tetrahedron, 2012, 68, 6517-6520.	1.0	11
376	Mechanically Strong, Flexible Polyimide Aerogels Cross-Linked with Aromatic Triamine. ACS Applied Materials & Company (1988) Mate	4.0	334
377	lonic liquid templated preparation of carbon aerogels based on resorcinol–formaldehyde: properties and catalytic performance. Journal of Materials Chemistry, 2012, 22, 21852.	6.7	15
378	Polyaniline nanofiber–silica composite aerogels. Journal of Non-Crystalline Solids, 2012, 358, 1575-1580.	1.5	55
379	Synthesis and Thermal Properties of Polyimide/BaZrO ₃ Novel Nanocomposites. Polymer-Plastics Technology and Engineering, 2012, 51, 345-349.	1.9	15
380	Preparation and nitrogen sorption characteristics of Silica aerogel suitable for sensor applications. , 2012, , .		0
381	Role of block copolymer surfactant on the pore formation in methylsilsesquioxane aerogel systems. RSC Advances, 2012, 2, 7166.	1.7	43
382	Effects of Surfactants on the Synthesis of Silica Aerogels Prepared by Ambient Pressure Drying. Key Engineering Materials, 2012, 512-515, 1625-1630.	0.4	3
383	Fabrication of Macro-Mesoporous Zirconia-Alumina Materials with a One-Dimensional Hierarchical Structure. Crystal Growth and Design, 2012, 12, 1402-1410.	1.4	13
384	Freestanding monolithic silicon aerogels. Journal of Materials Chemistry, 2012, 22, 16196.	6.7	58
385	Low-cost and fast synthesis of nanoporous silica cryogels for thermal insulation applications. Science and Technology of Advanced Materials, 2012, 13, 035003.	2.8	29
386	Morphology control and thermal stability of binderless-graphene aerogels from graphite for energy storage applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 414, 352-358.	2.3	79
387	Using nanocapsules as building blocks to fabricate organic polymer nanofoam with ultra low thermal conductivity and high mechanical strength. Polymer, 2012, 53, 5699-5705.	1.8	23
388	The synthesis and characterization of germanium oxide aerogel. Journal of Non-Crystalline Solids, 2012, 358, 3322-3326.	1.5	10
389	From â€~Green' Aerogels to Porous Graphite by Emulsion Gelation of Acrylonitrile. Chemistry of Materials, 2012, 24, 26-47.	3.2	49
390	Highly porous chemically modified carbon cryogels and their coherent nanocomposites for energy applications. Energy and Environmental Science, 2012, 5, 5619-5637.	15.6	61
391	Aerogels from crosslinked cellulose nano/micro-fibrils and their fast shape recovery property in water. Journal of Materials Chemistry, 2012, 22, 11642.	6.7	218
392	Mesoporous Carbon/Zirconia Composites: A Potential Route to Chemically Functionalized Electrically-Conductive Mesoporous Materials. Langmuir, 2012, 28, 3259-3270.	1.6	13

#	Article	IF	CITATIONS
393	Monolithic Hierarchical Fractal Assemblies of Silica Nanoparticles Cross-Linked with Polynorbornene via ROMP: A Structure–Property Correlation from Molecular to Bulk through Nano. Chemistry of Materials, 2012, 24, 3434-3448.	3.2	73
394	On the Permeability of Fractal Tube Bundles. Transport in Porous Media, 2012, 94, 747-757.	1.2	5
395	Clean Synthesis of Silver-Silica Aerogels via Supercritical Drying and Impregnation. Key Engineering Materials, 2012, 509, 220-229.	0.4	0
396	Synthesis of pharmacologically active hydrogels based on combined silicon and titanium polyolates. Russian Chemical Bulletin, 2012, 61, 2163-2171.	0.4	7
397	Ionic Liquid Mediated Sol-Gel Synthesis in the Presence of Water or Formic Acid: Which Synthesis for Which Material?. Chemistry of Materials, 2012, 24, 3128-3134.	3.2	66
398	Monolithic nanoporous–crystalline aerogels based on PPO. RSC Advances, 2012, 2, 12011.	1.7	40
399	Low Dielectric Polyimide Aerogels As Substrates for Lightweight Patch Antennas. ACS Applied Materials & Samp; Interfaces, 2012, 4, 6346-6353.	4.0	197
400	A one-pot hydrothermal synthesis of sulfur and nitrogen doped carbon aerogels with enhanced electrocatalytic activity in the oxygen reduction reaction. Green Chemistry, 2012, 14, 1515.	4.6	541
401	Formation of reactive aerogels and their reactivity in aqueous media. Wettability induces hydrophobic vs. hydrophilic selectivity. Journal of Materials Chemistry, 2012, 22, 7712.	6.7	2
402	Nanotechnology: Fundamental Principles and Applications. , 2012, , 249-263.		1
403	Rice Husk Ash as a Renewable Source for the Production of Value Added Silica Gel and its Application: An Overview. Bulletin of Chemical Reaction Engineering and Catalysis, 2012, 7, 1-25.	0.5	65
404	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
405	Functional Monolithic Polymeric Organic Framework Aerogel as Reducing and Hosting Media for Ag nanoparticles and Application in Capturing of Iodine Vapors. Chemistry of Materials, 2012, 24, 1937-1943.	3.2	137
406	Solâ€gel synthesis and washing of amorphous gâ€FeO(OH) xerogels. Materialwissenschaft Und Werkstofftechnik, 2012, 43, 427-434.	0.5	4
407	Preparation of highly conductive carbon cryogel based on pristine graphene. Synthetic Metals, 2012, 162, 743-747.	2.1	26
408	Synthesis of Metal Oxide Nanostructures by Direct Sol–Gel Chemistry in Supercritical Fluids. Chemical Reviews, 2012, 112, 3057-3082.	23.0	261
409	Preparation of Highly Ordered Nitrogenâ€Containing Mesoporous Carbon from a Gelatin Biomolecule and its Excellent Sensing of Acetic Acid. Advanced Functional Materials, 2012, 22, 3596-3604.	7.8	194
412	Macroscopicâ€Scale Template Synthesis of Robust Carbonaceous Nanofiber Hydrogels and Aerogels and Their Applications. Angewandte Chemie - International Edition, 2012, 51, 5101-5105.	7.2	609

#	ARTICLE	IF	Citations
413	Chitosan Bioâ€Based Organic–Inorganic Hybrid Aerogel Microspheres. Chemistry - A European Journal, 2012, 18, 8264-8277.	1.7	149
414	Mechanisms of Silicon Alkoxide Hydrolysis–Oligomerization Reactions: A DFT Investigation. ChemPhysChem, 2012, 13, 2392-2404.	1.0	47
415	Nano porous structure of resorcinol–formaldehyde xerogels and aerogels: effect of sodium dodecylbenzene sulfonate. Iranian Polymer Journal (English Edition), 2012, 21, 211-219.	1.3	11
416	Synthesis monolithic copper-based aerogel with polyacrylic acid as template. Journal of Sol-Gel Science and Technology, 2012, 63, 140-145.	1.1	25
417	Porous silica aerogel/honeycomb ceramic composites fabricated by an ultrasound stimulation process. Metals and Materials International, 2012, 18, 481-486.	1.8	4
418	One-pot aqueous route to synthesize highly ordered cubic and hexagonal mesoporous carbons from resorcinol and hexamine. Carbon, 2012, 50, 476-487.	5.4	96
419	Microwave-assisted synthesis of silica aerogel supported pt nanoparticles for self-humidifying proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2012, 37, 7669-7676.	3.8	20
420	Mechanism of structural networking in hydrogels based on silicon and titanium glycerolates. Journal of Colloid and Interface Science, 2012, 365, 81-89.	5.0	42
421	Hierarchically assembled titania-cyclodextrin nano-networks. Materials Letters, 2012, 67, 11-13.	1.3	13
422	Chitosan–montmorillonite bio-based aerogel hybrid microspheres. Microporous and Mesoporous Materials, 2012, 152, 208-213.	2.2	57
423	Carbon tunnels formed in carbon/carbon composite cryogels. Microporous and Mesoporous Materials, 2012, 153, 47-54.	2.2	17
424	Structure and properties of polymethylsilsesquioxane aerogels synthesized with surfactant n-hexadecyltrimethylammonium chloride. Microporous and Mesoporous Materials, 2012, 158, 247-252.	2.2	53
425	New fluorine-containing polyorganosilsesquioxanes: Preparation and properties. Glass Physics and Chemistry, 2012, 38, 347-355.	0.2	7
426	Hierarchical Zinc Oxide Materials with Multiple Porosity Prepared by Ultrafast Temperature Gradient Chemical Gasâ€Phase Synthesis. Advanced Materials, 2012, 24, 543-548.	11.1	43
427	Cellulose–Silica Nanocomposite Aerogels by Inâ€Situ Formation of Silica in Cellulose Gel. Angewandte Chemie - International Edition, 2012, 51, 2076-2079.	7.2	314
428	Realistic limits to computation. Applied Physics A: Materials Science and Processing, 2012, 106, 967-982.	1.1	2
429	Study of the suitability of silica based xerogels synthesized using ethyltrimethoxysilane and/or methyltrimethoxysilane precursors for aerospace applications. Journal of Sol-Gel Science and Technology, 2012, 61, 151-160.	1.1	47
430	Alumina cryogels with superior thermal stability for catalyst supports. Journal of Sol-Gel Science and Technology, 2012, 61, 268-274.	1.1	15

#	Article	IF	CITATIONS
431	Immobilized polyoxometalates onto mesoporous organically-modified silica aerogels as selective heterogeneous catalysts of anthracene oxidation. Journal of Sol-Gel Science and Technology, 2012, 61, 541-550.	1.1	20
432	Liquid-phase synthesis and application of monolithic porous materials based on organic–inorganic hybrid methylsiloxanes, crosslinked polymers and carbons. Journal of Sol-Gel Science and Technology, 2013, 65, 12-22.	1.1	11
433	Salt and sugar: direct synthesis of high surface area carbon materials at low temperatures via hydrothermal carbonization of glucose under hypersaline conditions. Journal of Materials Chemistry A, 2013, 1, 9418.	5. 2	98
434	Zirconiaâ€based Aerogels via Hydrolysis of Salts and Alkoxides: The Influence of the Synthesis Procedures on the Properties of the Aerogels. Chemistry - an Asian Journal, 2013, 8, 2211-2219.	1.7	22
435	Monolithic zinc oxide aerogel with the building block of nanoscale crystalline particle. Journal of Porous Materials, 2013, 20, 1051-1057.	1.3	10
436	Preparation and characterization of polyhedral oligomeric silsesquioxane–titania aerogels. Journal of Porous Materials, 2013, 20, 1017-1022.	1.3	10
437	Synthesis of inorganic aerogels via rapid gelation using chloride precursors. RSC Advances, 2013, 3, 15263.	1.7	40
438	Polymer reinforced silica aerogels: effects of dimethyldiethoxysilane and bis(trimethoxysilylpropyl)amine as silane precursors. Journal of Materials Chemistry A, 2013, 1, 6642.	5. 2	52
439	Regioselective cross-linking of silica aerogels with magnesium silicate ceramics. Journal of Materials Chemistry A, 2013, 1, 6021.	5.2	17
440	Fractal Multiscale Nanoporous Polyurethanes: Flexible to Extremely Rigid Aerogels from Multifunctional Small Molecules. Chemistry of Materials, 2013, 25, 3205-3224.	3.2	120
441	Preparation and characterization of double metal-silica sorbent for gas filtration. Adsorption, 2013, 19, 49-61.	1.4	4
442	Monodisperse Hollow Silica Nanospheres for Nano Insulation Materials: Synthesis, Characterization, and Life Cycle Assessment. ACS Applied Materials & Samp; Interfaces, 2013, 5, 761-767.	4.0	137
443	Synthesis and characterization improvement of gradient density aerogels for hypervelocity particle capture through co-gelation of binary sols. Journal of Sol-Gel Science and Technology, 2013, 68, 9-18.	1.1	7
444	Flexible aerogels based on an interpenetrating network of bacterial cellulose and silica by a non-supercritical drying process. Journal of Materials Chemistry A, 2013, 1, 7963.	5. 2	143
445	Versatile Fabrication of Ultralight Magnetic Foams and Application for Oil–Water Separation. ACS Nano, 2013, 7, 6875-6883.	7.3	321
446	Deterministic Control over High-Z Doping of Polydicyclopentadiene-Based Aerogel Coatings. ACS Applied Materials & Deterministic Control over High-Z Doping of Polydicyclopentadiene-Based Aerogel Coatings. ACS Applied Materials & Deterministic Control over High-Z Doping of Polydicyclopentadiene-Based Aerogel Coatings. ACS Applied Materials & Deterministic Control over High-Z Doping of Polydicyclopentadiene-Based Aerogel Coatings. ACS Applied Materials & Deterministic Control over High-Z Doping of Polydicyclopentadiene-Based Aerogel Coatings. ACS Applied Materials & Deterministic Control over High-Z Doping of Polydicyclopentadiene-Based Aerogel Coatings. ACS Applied Materials & Deterministic Control over High-Z Doping of Polydicyclopentadiene-Based Aerogel Coatings.	4.0	10
447	Carbon Quantum Dot-Functionalized Aerogels for NO ₂ Gas Sensing. Analytical Chemistry, 2013, 85, 8065-8069.	3.2	123
448	A synthetic route to ultralight hierarchically micro/mesoporous Al(III)-carboxylate metal-organic aerogels. Nature Communications, 2013, 4, 1774.	5.8	310

#	Article	IF	CITATIONS
450	Mechanism and kinetics of nanostructure evolution during early stages of resorcinol–formaldehyde polymerisation. Journal of Colloid and Interface Science, 2013, 406, 51-59.	5.0	30
451	Mechanistic investigations of Al(OH)3 oligomerization mechanisms. Journal of Molecular Modeling, 2013, 19, 1565-1572.	0.8	11
452	Carbon Fiber Aerogel Made from Raw Cotton: A Novel, Efficient and Recyclable Sorbent for Oils and Organic Solvents. Advanced Materials, 2013, 25, 5916-5921.	11.1	600
453	Synthesis of silica nanoparticles from Vietnamese rice husk by sol–gel method. Nanoscale Research Letters, 2013, 8, 58.	3.1	171
454	Gradual hydrophobic surface functionalization of dry silica aerogels by reaction with silane precursors dissolved in supercritical carbon dioxide. Journal of Supercritical Fluids, 2013, 84, 74-79.	1.6	33
455	Hydrogen production by steam reforming of ethanol over mesoporous Ni–Al2O3–ZrO2 aerogel catalyst. International Journal of Hydrogen Energy, 2013, 38, 15119-15127.	3.8	31
456	Prospects of polysaccharide aerogels as modern advanced food materials. Trends in Food Science and Technology, 2013, 34, 124-136.	7.8	132
457	New approaches in silicon production and recycling for sustainable future. Russian Chemical Reviews, 2013, 82, 635-647.	2.5	11
458	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
459	Polyvinyl alcohol (PVA)–cellulose nanofibril (CNF)–multiwalled carbon nanotube (MWCNT) hybrid organic aerogels with superior mechanical properties. RSC Advances, 2013, 3, 20816.	1.7	74
460	â€~Seeded' growth of silica aerogel by tetraethoxysilane and trimethylchlorosilane co-precursor method. Journal of Non-Crystalline Solids, 2013, 362, 216-221.	1.5	13
461	Power reduction with enhanced sensitivity for pellistor methane sensor by improved thermal insulation packaging. Sensors and Actuators B: Chemical, 2013, 187, 221-226.	4.0	21
462	Hydrogen production by steam reforming of ethanol over mesoporous Ni–Al2O3–ZrO2 xerogel catalysts: Effect of nickel content. International Journal of Hydrogen Energy, 2013, 38, 8285-8292.	3.8	40
463	Gel-derived porous alumina systems. Materials Letters, 2013, 107, 344-347.	1.3	7
464	Relationship analysis of processing parameters with micro and macro structure of silica aerogel dried at ambient pressure. Journal of Non-Crystalline Solids, 2013, 376, 30-37.	1.5	45
465	A review of state-of-the-art aerogel applications in buildings. International Journal of Low-Carbon Technologies, 2013, 8, 1-6.	1.2	133
466	Bifunctional Graphene/ <i>γ</i> àêFe ₂ O ₃ Hybrid Aerogels with Double Nanocrystalline Networks for Enzyme Immobilization. Small, 2013, 9, 2331-2340.	5.2	121
467	Effectively dispersed europium oxide dopants in TiO2 aerogel supports for enhanced photocatalytic pollutant degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 269, 49-58.	2.0	36

#	Article	IF	CITATIONS
468	Tunable nitrogen-doped carbon aerogels as sustainable electrocatalysts in the oxygen reduction reaction. Journal of Materials Chemistry A, 2013, 1, 4002.	5.2	85
469	A structural and thermal conductivity study of highly porous, hierarchical polyhedral nanofoam shells made by condensing silica in microemulsion films on the surface of emulsified oil drops. Journal of Materials Chemistry A, 2013, 1, 1849-1859.	5.2	18
470	Chitin Nanowhisker Aerogels. ChemSusChem, 2013, 6, 537-544.	3.6	78
471	Polydicyclopentadiene aerogels grafted with PMMA: I. Molecular and interparticle crosslinking. Soft Matter, 2013, 9, 1516-1530.	1.2	43
472	Sulfonated syndiotactic polystyrene aerogels: properties and applications. Journal of Materials Chemistry A, 2013, 1, 13989.	5.2	27
473	Matrimid Aerogels by Temperatureâ€Controlled, Solutionâ€Based Crosslinking. Macromolecular Materials and Engineering, 2013, 298, 868-875.	1.7	5
474	Cellulose Aerogel from Paper Waste for Crude Oil Spill Cleaning. Industrial & Engineering Chemistry Research, 2013, 52, 18386-18391.	1.8	291
475	One-pot synthesis of Fe, Co and Ni-doped carbon xerogels and their magnetic properties. Journal of Physics and Chemistry of Solids, 2013, 74, 1275-1280.	1.9	23
476	Synthesis of a novel porous material comprising carbon/alumina composite aerogels monoliths with high compressive strength. Microporous and Mesoporous Materials, 2013, 172, 182-189.	2.2	27
477	Methanolysis of Si(OCH3)4 and Al(OCH3)3 alkoxides: A comparative study with DFT method. Computational and Theoretical Chemistry, 2013, 1023, 19-23.	1.1	7
478	Effects of pressure on electroplating of copper using supercritical carbon dioxide emulsified electrolyte. Thin Solid Films, 2013, 529, 25-28.	0.8	34
479	Increasing the oxidative stability of poly(dicyclopentadiene) aerogels by hydrogenation. Polymer, 2013, 54, 542-547.	1.8	34
480	Effect of Aluminium Sec-butoxide on Wetting Properties of Silica-Based Coatings on Glass. Journal of Materials Engineering and Performance, 2013, 22, 1453-1458.	1.2	3
481	Enzyme immobilisation in biocatalysis: why, what and how. Chemical Society Reviews, 2013, 42, 6223-6235.	18.7	2,100
482	Ultralight, Flexible, and Fireâ€Resistant Carbon Nanofiber Aerogels from Bacterial Cellulose. Angewandte Chemie - International Edition, 2013, 52, 2925-2929.	7.2	643
483	Activation of CO2 by tBuZnOH species: efficient routes to novel nanomaterials based on zinc carbonates. Chemical Communications, 2013, 49, 5271.	2.2	17
484	Control of the size and shape of TiO ₂ nanoparticles in restricted media. Nanotechnology, 2013, 24, 195601.	1.3	27
485	A one-step method for reduction and self-assembling of graphene oxide into reduced graphene oxide aerogels. Journal of Materials Chemistry A, 2013 , 1 , 2869 .	5.2	109

#	Article	IF	CITATIONS
486	Role of Fâ^ in the hydrolysisâ€"condensation mechanisms of silicon alkoxide Si(OCH3)4: a DFT investigation. New Journal of Chemistry, 2013, 37, 1371.	1.4	10
487	Highly elastic graphene oxide–epoxy composite aerogels via simple freeze-drying and subsequent routine curing. Journal of Materials Chemistry A, 2013, 1, 3495.	5.2	148
489	Reinforced plastics and aerogels by nanocrystalline cellulose. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	45
490	Modifying Native Nanocellulose Aerogels with Carbon Nanotubes for Mechanoresponsive Conductivity and Pressure Sensing. Advanced Materials, 2013, 25, 2428-2432.	11.1	246
491	Polydicyclopentadiene aerogels grafted with PMMA: II. Nanoscopic characterization and origin of macroscopic deformation. Soft Matter, 2013, 9, 1531-1539.	1.2	36
492	Titania Condensation by a Bio-Inspired Synthetic Block Copolymer. Chemistry of Materials, 2013, 25, 2056-2063.	3.2	8
493	Syndiotactic polystyrene aerogels containing multi-walled carbon nanotubes. Polymer, 2013, 54, 750-759.	1.8	49
494	Sol–Gel-Derived Silver-Nanoparticle-Embedded Thin Film for Mass Spectrometry-Based Biosensing. Langmuir, 2013, 29, 6502-6507.	1.6	35
495	Ultraviolet and Visible Photochemistry of Methanol at 3D Mesoporous Networks: TiO ₂ and Au–TiO ₂ . Journal of Physical Chemistry C, 2013, 117, 15035-15049.	1.5	49
496	Superhydrophobic and Omnidirectional Antireflective Surfaces from Nanostructured Ormosil Colloids. ACS Applied Materials & Samp; Interfaces, 2013, 5, 853-860.	4.0	70
497	A Special Material or a New State of Matter: A Review and Reconsideration of the Aerogel. Materials, 2013, 6, 941-968.	1.3	366
498	Gas adsorption by nanoporous materials: Future applications and experimental challenges. MRS Bulletin, 2013, 38, 412-421.	1.7	65
499	Vacuumâ€Dried Robust Bridged Silsesquioxane Aerogels. Advanced Materials, 2013, 25, 4494-4497.	11.1	139
500	Water Extractable Arabinoxylan Aerogels Prepared by Supercritical CO2 Drying. Molecules, 2013, 18, 5531-5542.	1.7	20
501	Electrically conductive aerogels composed of cellulose and carbon nanotubes. Journal of Materials Chemistry A, 2013, 1, 9714.	5.2	72
502	Clay reinforced polyimide/silica hybrid aerogel. Journal of Materials Chemistry A, 2013, 1, 7211.	5.2	65
503	Hybrid organogels and aerogels from co-assembly of structurally different low molecular weight gelators. Journal of Materials Chemistry C, 2013, 1, 3305.	2.7	30
504	Monolithic Aerogels Based on Poly(2,6-diphenyl-1,4-phenylene oxide) and Syndiotactic Polystyrene. ACS Applied Materials & Samp; Interfaces, 2013, 5, 5493-5499.	4.0	13

#	ARTICLE	IF	CITATIONS
505	Capacitive performance of binder-free carbon/carbon composite cryogels. Microporous and Mesoporous Materials, 2013, 165, 228-233.	2.2	16
506	Lignin–phenol–formaldehyde aerogels and cryogels. Microporous and Mesoporous Materials, 2013, 168, 19-29.	2.2	105
507	Robust monolithic multiscale nanoporous polyimides and conversion to isomorphic carbons. RSC Advances, 2013, 3, 26459.	1.7	43
508	Silica based aerogelâ€ike materials obtained by quick microwave drying. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 380-385.	0.5	18
509	Monodispersed or narrow-dispersed melamine–formaldehyde resin polymer colloidal spheres: preparation, size-control, modification, bioconjugation and particle formation mechanism. Journal of Materials Chemistry B, 2013, 1, 204-212.	2.9	95
510	Monolithic Composites of Silica Aerogels by Reactive Supercritical Deposition of Hydroxy-Terminated Poly(Dimethylsiloxane). ACS Applied Materials & Samp; Interfaces, 2013, 5, 11708-11717.	4.0	41
511	CHAPTER 7. Optic and Electronic Applications of Molecular Gels. RSC Soft Matter, 2013, , 195-254.	0.2	1
512	Cellulose Nanofibrils. Journal of Renewable Materials, 2013, 1, 195-211.	1.1	152
513	Synthesis and Gas Sensing Properties of Palladium Doped Titanium Dioxide Nanoparticles. Advanced Materials Research, 0, 716, 74-77.	0.3	0
514	Nanogel Windows. , 2013, , 555-582.		10
515	The Monolithic Silica Aerogel Derived from MTMS/TEOS. Applied Mechanics and Materials, 2013, 364, 631-634.	0.2	1
516	Aerogels in Aerospace: An Overview. Advances in Materials Science and Engineering, 2013, 2013, 1-18.	1.0	180
517	Preparation of titaniumâ€containing polymeric foam for inertial confinement fusion target. Applied Organometallic Chemistry, 2013, 27, 695-697.	1.7	0
518	Improved Heat Insulation and Mechanical Properties of Highly Porous <scp>YSZ</scp> Ceramics After Silica Aerogels Impregnation. Journal of the American Ceramic Society, 2013, 96, 3223-3227.	1.9	27
519	Silica nanogel for energy-efficient windows. , 2013, , 207-235.		13
520	Monolithic Nanoporous Crystalline Aerogels. Macromolecular Rapid Communications, 2013, 34, 1194-1207.	2.0	61
521	Intrinsically Highly Hydrophobic Semi-alicyclic Fluorinated Polyimide Aerogel with Ultralow Dielectric Constants. Chemistry Letters, 2013, 42, 1230-1232.	0.7	25
522	Influence of solvent and drop distance on the formation of ENR/PVC/silica aerogel beads. International Journal of Materials Engineering Innovation, 2013, 4, 269.	0.2	1

#	Article	IF	CITATIONS
523	Aerogels as Promising Thermal Insulating Materials: An Overview. Journal of Materials, 2014, 2014, 1-10.	0.1	109
524	Preparation of silica-based aerogels by supercritical drying. Russian Journal of Physical Chemistry B, 2014, 8, 973-979.	0.2	10
525	Monolithic ZnO aerogel synthesized through dispersed inorganic sol–gel method using citric acid as template. Journal of Porous Materials, 2014, 21, 1035-1039.	1.3	15
526	Preparation and properties of PMMA modified silica aerogels from diatomite. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 877-884.	0.4	4
527	Aerogels in the Environment Protection. , 2014, , 573-591.		11
528	Removal of Hazardous Pollutants from Wastewaters: Applications of TiO ₂ -SiO ₂ Mixed Oxide Materials. Journal of Nanomaterials, 2014, 2014, 1-42.	1.5	176
529	Synthesis of ZnO-CuO Nanocomposite Aerogels by the Sol-Gel Route. Journal of Nanomaterials, 2014, 2014, 1-9.	1.5	21
530	Aerogels of Cellulose and Chitin Crystals. Materials and Energy, 2014, , 139-161.	2.5	1
531	Ultralight nanofibre-assembled cellular aerogels with superelasticity and multifunctionality. Nature Communications, 2014, 5, 5802.	5.8	860
532	Comparative Study of Aerogels Obtained from Differently Prepared Nanocellulose Fibers. ChemSusChem, 2014, 7, 154-161.	3.6	258
533	An ionic liquid template approach to graphene–carbon xerogel composites for supercapacitors with enhanced performance. Journal of Materials Chemistry A, 2014, 2, 14329.	5.2	31
534	CMP Aerogels: Ultrahighâ€Surfaceâ€Area Carbonâ€Based Monolithic Materials with Superb Sorption Performance. Advanced Materials, 2014, 26, 8053-8058.	11.1	125
535	Flexible aerogels with interpenetrating network structure of bacterial cellulose–silica composite from sodium silicate precursor via freeze drying process. RSC Advances, 2014, 4, 30453.	1.7	83
536	Use of monolithic silicon carbide aerogel as a reusable support for development of regenerable CO ₂ adsorbent. RSC Advances, 2014, 4, 64193-64199.	1.7	22
537	Waterâ€Resistant Poly(vinyl alcohol)â€Silica Hybrids through Solâ€Gel Processing. Chemical Engineering and Technology, 2014, 37, 620-626.	0.9	11
538	Monolithic silsesquioxane materials with well-defined pore structure. Journal of Materials Research, 2014, 29, 2773-2786.	1.2	27
539	Flexible Aerogels from Hyperbranched Polyurethanes: Probing the Role of Molecular Rigidity with Poly(Urethane Acrylates) Versus Poly(Urethane Norbornenes). Chemistry of Materials, 2014, 26, 6979-6993.	3.2	65
540	An Easy Way To Prepare Monolithic Inorganic Oxide Aerogels. Angewandte Chemie, 2014, 126, 10311-10313.	1.6	8

#	Article	IF	CITATIONS
541	Titanium polyethylene glycolates and hydrogels on the basis of the glycolates. Russian Chemical Bulletin, 2014, 63, 1639-1642.	0.4	2
542	Iron-Enriched Mineral Oxides: A Class of Sustainable Oxygenation Catalysts for Water Decontamination. ACS Symposium Series, 2014, , 165-177.	0.5	0
543	Mechanical and Adiabatic Properties of Silica Aerogel Doped with TiO ₂ Nanowire. Key Engineering Materials, 2014, 633, 336-339.	0.4	0
544	Porous organic–inorganic hybrid aerogels based on bridging acetylacetonate. Microporous and Mesoporous Materials, 2014, 187, 108-113.	2.2	21
545	Effect of catalyst and substrate on the moisture diffusivity of silica-aerogel-coated metal foams. International Journal of Heat and Mass Transfer, 2014, 73, 634-644.	2.5	16
546	Carbon Aerogels and Monoliths: Control of Porosity and Nanoarchitecture via Sol–Gel routes. Chemistry of Materials, 2014, 26, 196-210.	3.2	204
547	Synthesis and characterization of high surface area nanosilica from rice husk ash by surfactant-free sol–gel method. Journal of Sol-Gel Science and Technology, 2014, 69, 465-472.	1.1	84
548	A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. Energy and Environmental Science, 2014, 7, 1564.	15.6	996
549	Mechanical properties of silica aerogels prepared from a mixture of TEOS and organo-alkoxysilanes of type R1SiX3. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 201-207.	0.4	3
550	Synthesis and electrocatalytic activity of phosphorus-doped carbon xerogel for oxygen reduction. Electrochimica Acta, 2014, 127, 53-60.	2.6	84
551	Synthesis of an organic conductive porous material using starch aerogels as template for chronic invasive electrodes. Materials Science and Engineering C, 2014, 37, 177-183.	3.8	40
552	A new photoluminescent silica aerogel based on N-hydroxysuccinimide–Tb(III) complex. Journal of Sol-Gel Science and Technology, 2014, 69, 207-213.	1.1	7
553	Hexafluoroisopropyl alcohol as a new solvent for aerogels preparation. Journal of Supercritical Fluids, 2014, 89, 28-32.	1.6	31
554	Recent developments in liquid-phase selective oxidation using environmentally benign oxidants and mesoporous metal silicates. Catalysis Science and Technology, 2014, 4, 1869-1889.	2.1	80
555	Spongeâ€Templated Preparation of High Surface Area Graphene with Ultrahigh Capacitive Deionization Performance. Advanced Functional Materials, 2014, 24, 3917-3925.	7.8	239
556	Carbon Microbelt Aerogel Prepared by Waste Paper: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. Small, 2014, 10, 3544-3550.	5.2	196
557	Always Look on the "Light―Side of Life: Sustainable Carbon Aerogels. ChemSusChem, 2014, 7, 670-689.	3.6	157
558	An overview on silica aerogels synthesis and different mechanical reinforcing strategies. Journal of Non-Crystalline Solids, 2014, 385, 55-74.	1.5	555

#	Article	IF	Citations
559	Diethyl and methyl-tert-buthyl ethers as new solvents for aerogels preparation. Materials Letters, 2014, 116, 116-119.	1.3	35
560	Fabrication of hydrophobic and magnetic cellulose aerogel with high oil absorption capacity. Materials Letters, 2014, 115, 241-243.	1.3	146
561	Aerogel-incorporated concrete: An experimental study. Construction and Building Materials, 2014, 52, 130-136.	3.2	179
562	Super water absorbing and shape memory nanocellulose aerogels from TEMPO-oxidized cellulose nanofibrils via cyclic freezing–thawing. Journal of Materials Chemistry A, 2014, 2, 350-359.	5.2	232
563	Ultra-light, compressible and fire-resistant graphene aerogel as a highly efficient and recyclable absorbent for organic liquids. Journal of Materials Chemistry A, 2014, 2, 2934.	5.2	380
564	Water-insoluble aerogels made from cellulose nanocrystals and poly(vinyl alcohol). Green Materials, 2014, 2, 169-182.	1.1	9
565	Synthesis of silica gels with a controlled porous structure. Russian Journal of Inorganic Chemistry, 2014, 59, 1214-1218.	0.3	3
566	Hydrophobic silica aerogel reinforced with carbon nanotube for oils removal. Journal of Porous Materials, 2014, 21, 967-973.	1.3	46
567	Synthesis, structure and thermal protective behavior of silica aerogel/PET nonwoven fiber composite. Fibers and Polymers, 2014, 15, 2154-2159.	1.1	35
568	Slow dynamics of nanocomposite polymer aerogels as revealed by X-ray photocorrelation spectroscopy (XPCS). Journal of Chemical Physics, 2014, 140, 024909.	1.2	20
569	Nanocellulose properties and applications in colloids and interfaces. Current Opinion in Colloid and Interface Science, 2014, 19, 383-396.	3.4	501
570	Three-Dimensional Organization of Surface-Bound Silicone Nanofilaments Revealed by Focused Ion Beam Nanotomography. Journal of Physical Chemistry C, 2014, 118, 24967-24975.	1.5	18
571	Ultra-flyweight hydrophobic poly(m-phenylenediamine) aerogel with micro-spherical shell structures as a high-performance selective adsorbent for oil contamination. RSC Advances, 2014, 4, 49000-49005.	1.7	20
572	High surface area TiO ₂ nanoparticles by a freeze-drying approach for dye-sensitized solar cells. RSC Advances, 2014, 4, 36821-36827.	1.7	20
573	The thermal conductivity of polymethylsilsesquioxane aerogels and xerogels with varied pore sizes for practical application as thermal superinsulators. Journal of Materials Chemistry A, 2014, 2, 6525-6531.	5.2	176
574	Carbon Materials as Catalyst Supports and Catalysts in the Transformation of Biomass to Fuels and Chemicals. ACS Catalysis, 2014, 4, 3393-3410.	5.5	523
575	Transparent Conducting Aerogels of Antimony-Doped Tin Oxide. ACS Applied Materials & Discrete Samp; Interfaces, 2014, 6, 19127-19134.	4.0	42
576	A new aerogel based CO ₂ adsorbent developed using a simple sol–gel method along with supercritical drying. Chemical Communications, 2014, 50, 12158-12161.	2.2	83

#	Article	IF	CITATIONS
577	Synthesis of polyimide cross-linked silica aerogels with good acoustic performance. RSC Advances, 2014, 4, 58252-58259.	1.7	46
578	Facile preparation of clay reinforced konjac glucomannan aerogels. RSC Advances, 2014, 4, 22251.	1.7	22
579	Zinc oxide aerogel-like materials with an intriguing interwoven hollow-sphere morphology for selective ethanol sensing. RSC Advances, 2014, 4, 21815-21818.	1.7	2
580	Fabrication of macro–mesoporous titania/alumina core–shell materials in oil/water interface. Journal of Colloid and Interface Science, 2014, 436, 194-203.	5.0	2
581	Synthesis of N-Type Plasmonic Oxide Nanocrystals and the Optical and Electrical Characterization of their Transparent Conducting Films. Chemistry of Materials, 2014, 26, 4579-4588.	3.2	46
582	Characterization of the microstructures of copper-based aerogels on the sol–gel process. Journal of Sol-Gel Science and Technology, 2014, 72, 415-420.	1.1	2
583	A novel method to synthesize monolithic carbon aerogels from polyacrylic acid by using CO as reducing agent. Materials Letters, 2014, 132, 75-77.	1.3	4
584	Synthesis of lightweight polymer-reinforced silica aerogels with improved mechanical and thermal insulation properties for space applications. Microporous and Mesoporous Materials, 2014, 197, 116-129.	2.2	115
585	Hierarchically structured nanocrystalline photoanode: Self-assembled bi-functional TiO2 towards enhanced photovoltaic performance. Nano Energy, 2014, 8, 247-254.	8.2	4
586	An Easy Way To Prepare Monolithic Inorganic Oxide Aerogels. Angewandte Chemie - International Edition, 2014, 53, 10147-10149.	7.2	64
587	Marked Increase in Hydrophobicity of Monolithic Carbon Cryogels via HCl Aging of Precursor Resorcinol–Formaldehyde Hydrogels: Application to 1-Butanol Recovery from Dilute Aqueous Solutions. Journal of Physical Chemistry C, 2014, 118, 6866-6872.	1.5	19
588	Morphology Control of TiO ₂ Nanoparticle in Microemulsion and Its Photocatalytic Property. ACS Sustainable Chemistry and Engineering, 2014, 2, 288-295.	3.2	66
589	Formation of tunable three-dimensional networks of graphene hydrogel via covalent bond. Synthetic Metals, 2014, 196, 27-32.	2.1	7
590	Soft Colloidal Scaffolds Capable of Elastic Recovery after Large Compressive Strains. Chemistry of Materials, 2014, 26, 5161-5168.	3.2	45
591	Aerogel based nanoporous fibrous materials for thermal insulation. Fibers and Polymers, 2014, 15, 1444-1449.	1.1	38
592	Foamlike Xanthan Gum/Clay Aerogel Composites and Tailoring Properties by Blending with Agar. Industrial & Description of the Research, 2014, 53, 7680-7687.	1.8	58
593	Antimony-Doped Tin Oxide Aerogels as Porous Electron Collectors for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 17028-17035.	1.5	25
594	Cocoon-in-Web-Like Superhydrophobic Aerogels from Hydrophilic Polyurea and Use in Environmental Remediation. ACS Applied Materials & Samp; Interfaces, 2014, 6, 6872-6882.	4.0	87

#	Article	IF	CITATIONS
595	Preparation of flexible, hydrophobic, and oleophilic silica aerogels based on a methyltriethoxysilane precursor. Journal of Materials Science, 2014, 49, 7715-7722.	1.7	44
596	Phase assembly-induced transition of three dimensional nanofibril- to sheet-networks in porous cellulose with tunable properties. Cellulose, 2014, 21, 383-394.	2.4	36
597	Preparation and thermal properties of chemically prepared nanoporous silica aerogels. Journal of Sol-Gel Science and Technology, 2014, 70, 511-516.	1.1	24
598	Coupling between SAXS and Raman spectroscopy applied to the gelation of colloidal zirconium oxy-hydroxide systems. Journal of Sol-Gel Science and Technology, 2014, 71, 571-579.	1.1	14
599	Aerogels with 3D Ordered Nanofiber Skeletons of Liquidâ€Crystalline Nanocellulose Derivatives as Tough and Transparent Insulators. Angewandte Chemie - International Edition, 2014, 53, 10394-10397.	7.2	426
600	Simulation of the tensile properties of silica aerogels: the effects of cluster structure and primary particle size. Soft Matter, 2014, 10, 6266-6277.	1.2	26
601	Biomimetic and bioinspired synthesis of titania and titania-based materials. RSC Advances, 2014, 4, 12388.	1.7	36
602	Synthesis of aerogel-type mesoporous silica. Colloid Journal, 2014, 76, 327-333.	0.5	6
603	Evaluation of Dysprosia Aerogels as Drug Delivery Systems: A Comparative Study with Random and Ordered Mesoporous Silicas. ACS Applied Materials & Samp; Interfaces, 2014, 6, 4891-4902.	4.0	31
604	Preparation and Characterization of Spherical Polyimide Aerogel Microparticles. Macromolecular Materials and Engineering, 2014, 299, 1081-1088.	1.7	22
605	Assembly of antimony doped tin oxide nanocrystals into conducting macroscopic aerogel monoliths. Chemical Communications, 2014, 50, 13138-13141.	2.2	43
606	Present and future supercapacitor carbon electrode materials for improved energy storage used in intelligent wireless sensor systems. Nano Energy, 2014, 9, 128-141.	8.2	165
608	Modeling of the processing dynamics of aerogel/gold nanoparticle composites. Materials Chemistry and Physics, 2014, 148, 478-484.	2.0	2
609	Preparation of aerogels from wheat straw lignin by cross-linking with oligo(alkylene) Tj ETQq1 1 0.784314 rgBT	Overlock 2.2	10 Jf 50 222
610	Effect of catalyst used in the sol–gel process on the microstructure and adsorption/desorption performance of silica aerogels. International Journal of Heat and Mass Transfer, 2014, 74, 25-34.	2.5	15
611	Renewable Lignin-Based Xerogels with Self-Cleaning Properties and Superhydrophobicity. ACS Sustainable Chemistry and Engineering, 2014, 2, 1729-1733.	3.2	103
612	Polymethylsilsesquioxane–Cellulose Nanofiber Biocomposite Aerogels with High Thermal Insulation, Bendability, and Superhydrophobicity. ACS Applied Materials & 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	4.0	164
613	Polymer/Graphene Hybrid Aerogel with High Compressibility, Conductivity, and "Sticky― Superhydrophobicity. ACS Applied Materials & Interfaces, 2014, 6, 3242-3249.	4.0	140

#	Article	IF	CITATIONS
614	Green synthesis of polyvinyl alcohol (PVA)–cellulose nanofibril (CNF) hybrid aerogels and their use as superabsorbents. Journal of Materials Chemistry A, 2014, 2, 3110-3118.	5.2	340
615	View cell investigation of silica aerogels during supercritical drying: Analysis of size variation and mass transfer mechanisms. Journal of Supercritical Fluids, 2014, 92, 24-30.	1.6	34
616	Preparation and characterization of silica aerogels from diatomite via ambient pressure drying. Russian Journal of Physical Chemistry A, 2014, 88, 1196-1201.	0.1	6
617	Facile preparation of N-doped carbon nanofiber aerogels from bacterial cellulose as an efficient oxygen reduction reaction electrocatalyst. Chinese Journal of Catalysis, 2014, 35, 877-883.	6.9	35
618	Ultralight, high-surface-area, multifunctional graphene-based aerogels from self-assembly of graphene oxide and resol. Carbon, 2014, 68, 221-231.	5.4	188
620	Photoluminescence of monolithic zinc oxide aerogel synthesised by dispersed inorganic sol–gel method. Materials Technology, 2015, 30, 65-69.	1.5	6
627	Directional Materialsâ€"Nanoporous Organosilica Monoliths with Multiple Gradients Prepared Using Click Chemistry. Angewandte Chemie - International Edition, 2015, 54, 10465-10469.	7.2	28
628	Strong, Thermally Superinsulating Biopolymer–Silica Aerogel Hybrids by Cogelation of Silicic Acid with Pectin. Angewandte Chemie - International Edition, 2015, 54, 14282-14286.	7.2	132
629	Preparation of the Monolith of Hierarchical Macroâ€∤Mesoporous Calcium Silicate Ultrathin Nanosheets with Low Thermal Conductivity by Means of Ambientâ€Pressure Drying. Chemistry - an Asian Journal, 2015, 10, 1394-1401.	1.7	6
630	Resorcinol–formaldehyde xerogel as a microâ€solidâ€phase extraction sorbent for the determination of herbicides in aquatic environmental samples. Journal of Separation Science, 2015, 38, 2305-2311.	1.3	12
631	Ambientâ€Dried Cellulose Nanofibril Aerogel Membranes with High Tensile Strength and Their Use for Aerosol Collection and Templates for Transparent, Flexible Devices. Advanced Functional Materials, 2015, 25, 6618-6626.	7.8	155
632	Amorphous carbon nanocomposites. , 2015, , 309-328.		8
633	Silica Three-Dimensional Biosensors. Biosensors Journal, 2015, s4, .	0.4	0
634	On the Road to Biopolymer Aerogels—Dealing with the Solvent. Gels, 2015, 1, 291-313.	2.1	88
635	Polymer/Carbon-Based Hybrid Aerogels: Preparation, Properties and Applications. Materials, 2015, 8, 6806-6848.	1.3	163
636	From Cellulose Dissolution and Regeneration to Added Value Applications — Synergism Between Molecular Understanding and Material Development. , 0, , .		7
637	Structural Characterization and Modifications of Surface-oxidized Cellulose Nanofiber. Journal of the Japan Petroleum Institute, 2015, 58, 365-375.	0.4	16
638	Highly porous aerogels based on imine chemistry: syntheses and sorption properties. Journal of Materials Chemistry A, 2015, 3, 10990-10998.	5.2	56

#	Article	IF	CITATIONS
639	Silica Aerogels: A Multifunctional Building Material. , 2015, , 35-41.		4
640	Drying Using Supercritical Fluid Technology as a Potential Method for Preparation of Chitosan Aerogel Microparticles. AAPS PharmSciTech, 2015, 16, 1235-1244.	1.5	60
641	Self-assembled three-dimensional and compressible interdigitated thin-film supercapacitors and batteries. Nature Communications, 2015, 6, 7259.	5.8	246
642	Explosive versus Thermite Behavior in Iron(0) Aerogels Infiltrated with Perchlorates. Chemistry of Materials, 2015, 27, 8126-8137.	3.2	16
643	Fabrication of Porous ZrO ₂ Nanostructures with Controlled Crystalline Phases and Structures via a Facile and Cost-Effective Hydrothermal Approach. Industrial & Engineering Chemistry Research, 2015, 54, 12795-12804.	1.8	44
644	Antibacterial properties and cytocompatibility of bio-based nanostructured carbon aerogels derived from silver nanoparticles deposited onto bacterial cellulose. RSC Advances, 2015, 5, 97467-97476.	1.7	24
645	Effects of preparation parameters on SiO ₂ aerogels by single-factor and orthogonal experiments. Materials Research Innovations, 2015, 19, S2-90-S2-95.	1.0	3
646	Nitrogen-Doped Graphene Aerogels as Efficient Supercapacitor Electrodes and Gas Adsorbents. ACS Applied Materials & Diterfaces, 2015, 7, 1431-1438.	4.0	364
647	Silica ionogels synthesized with imidazolium based ionic liquids in presence of supercritical CO2. Journal of Supercritical Fluids, 2015, 105, 60-65.	1.6	19
648	Preparation and characterization of palladium-hydride-coated titanium as a reference electrode for the supercritical carbon dioxide emulsion electrochemical system. Electrochimica Acta, 2015, 155, 209-216.	2.6	2
649	Monolithic Polymeric Aerogels with VOCs Sorbent Nanoporous Crystalline and Water Sorbent Amorphous Phases. ACS Applied Materials & Samp; Interfaces, 2015, 7, 1318-1326.	4.0	28
650	A sol–gel route to synthesize SiO ₂ /TiO ₂ well-ordered nanocrystalline mesoporous photocatalysts through ionic liquid control. New Journal of Chemistry, 2015, 39, 3065-3070.	1.4	16
651	Polyimide Aerogels with Amide Cross-Links: A Low Cost Alternative for Mechanically Strong Polymer Aerogels. ACS Applied Materials & Samp; Interfaces, 2015, 7, 1240-1249.	4.0	199
652	Rapid and facile synthesis of a low-cost monolithic polyamide aerogel via sol–gel technology. Materials Letters, 2015, 144, 82-84.	1.3	23
653	Effect of polymer molecular weight and deposition temperature on the properties of silica aerogel/hydroxy-terminated poly(dimethylsiloxane) nanocomposites prepared by reactive supercritical deposition. Journal of Supercritical Fluids, 2015, 105, 99-107.	1.6	5
654	Scalable Template Synthesis of Resorcinol–Formaldehyde/Graphene Oxide Composite Aerogels with Tunable Densities and Mechanical Properties. Angewandte Chemie - International Edition, 2015, 54, 2397-2401.	7.2	168
655	Robust Superhydrophobic Bridged Silsesquioxane Aerogels with Tunable Performances and Their Applications. ACS Applied Materials & Discrete Samp; Interfaces, 2015, 7, 2016-2024.	4.0	80
656	Alkylated phase change composites for thermal energy storage based on surface-modified silica aerogels. Journal of Materials Chemistry A, 2015, 3, 1935-1940.	5.2	108

#	ARTICLE	IF	CITATIONS
657	Scalable Template Synthesis of Resorcinol–Formaldehyde/Graphene Oxide Composite Aerogels with Tunable Densities and Mechanical Properties. Angewandte Chemie, 2015, 127, 2427-2431.	1.6	27
658	Novel polyamidoamine dendrimer-functionalized palygorskite adsorbents with high adsorption capacity for Pb2+ and reactive dyes. Applied Clay Science, 2015, 107, 220-229.	2.6	69
659	Macroscopic Carbon Nanotubeâ€based 3D Monoliths. Small, 2015, 11, 3263-3289.	5.2	83
660	Fluorosurfactantsâ€Directed Preparation of Homogeneous and Hierarchicalâ€Porosity CMP Aerogels for Gas Sorption and Oil Cleanup. Advanced Science, 2015, 2, 1400006.	5.6	47
661	Recent Developments in the Synthesis of Supported Catalysts. Chemical Reviews, 2015, 115, 6687-6718.	23.0	986
662	Fast and one-pot synthesis of silica aerogels via a quasi-solvent-exchange-free ambient pressure drying process. Microporous and Mesoporous Materials, 2015, 218, 192-198.	2.2	65
663	Reduction of shrinkage and brittleness for resorcinol-formaldehyde aerogels by means of a pH-controlled sol–gel process. Journal of Supercritical Fluids, 2015, 106, 57-61.	1.6	12
664	Cobalt–iron nano catalysts supported on TiO2–SiO2: Characterization and catalytic performance in Fischer–Tropsch synthesis. Materials Research Bulletin, 2015, 72, 143-153.	2.7	11
665	Silica aerogel/epoxy composites with preserved aerogel pores and low thermal conductivity. E-Polymers, 2015, 15, 111-117.	1.3	37
666	Investigation on gelation process and microstructure for copper-based aerogel prepared via sol–gel method. Journal of Non-Crystalline Solids, 2015, 425, 195-198.	1.5	2
667	Mixed metal oxide aerogels from tailor-made precursors. Journal of Supercritical Fluids, 2015, 106, 2-8.	1.6	30
668	Influence of cryogenic drying conditions on hierarchical porous structure of aluminum oxide systems. Microporous and Mesoporous Materials, 2015, 218, 7-14.	2.2	12
669	Features of silicon– and titanium–polyethylene glycol precursors in sol–gel synthesis of new hydrogels. Journal of Materials Chemistry B, 2015, 3, 5490-5500.	2.9	14
670	Preparation of poly(aryl ether ketone ketone)–silica composite aerogel for thermal insulation application. Journal of Sol-Gel Science and Technology, 2015, 76, 98-109.	1.1	10
671	Ambient pressure dried shape-controllable sodium silicate based composite silica aerogel monoliths. Materials Chemistry and Physics, 2015, 162, 346-353.	2.0	46
672	CHAPTER 1. The Search for Functional Porous Carbons from Sustainable Precursors. RSC Green Chemistry, 2015, , 3-49.	0.0	5
673	Low cost carbon fiber aerogel derived from bamboo for the adsorption of oils and organic solvents with excellent performances. RSC Advances, 2015, 5, 38470-38478.	1.7	91
674	Nitrogenâ€Doped Carbon Nanotube Aerogels for Highâ€Performance ORR Catalysts. Small, 2015, 11, 3903-3908.	5.2	96

#	Article	IF	CITATIONS
675	A Study of Adsorption Behavior of Single Water Molecule on the Surface of Polyhedral Oligomeric Silsesquioxanes. Journal of Cluster Science, 2015, 26, 541-550.	1.7	1
676	Synthesis of silica aerogel microspheres by a two-step acid–base sol–gel reaction with emulsification technique. Journal of Porous Materials, 2015, 22, 621-628.	1.3	19
677	Synthesis of high strength monolithic alumina aerogels at ambient pressure. RSC Advances, 2015, 5, 18025-18028.	1.7	38
678	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. Green Chemistry, 2015, 17, 3436-3445.	4.6	47
679	Polydicyclopentadiene aerogels from first- versus second-generation Grubbs' catalysts: a molecular versus a nanoscopic perspective. Journal of Sol-Gel Science and Technology, 2015, 75, 460-474.	1.1	22
680	Carbon nanotube–cellulose composite aerogels for vapour sensing. Sensors and Actuators B: Chemical, 2015, 213, 20-26.	4.0	95
681	Extraction of lithium-ion battery electrolytes with liquid and supercritical carbon dioxide and additional solvents. RSC Advances, 2015, 5, 43209-43217.	1.7	103
682	Self-assembled three-dimensional graphene-based materials for dye adsorption and catalysis. Journal of Materials Chemistry A, 2015, 3, 10031-10037.	5.2	167
683	Poly(vinyl alcohol)/Cellulose Nanofibril Hybrid Aerogels with an Aligned Microtubular Porous Structure and Their Composites with Polydimethylsiloxane. ACS Applied Materials & Samp; Interfaces, 2015, 7, 7436-7444.	4.0	93
684	Multiscale Assembly of Superinsulating Silica Aerogels Within Silylated Nanocellulosic Scaffolds: Improved Mechanical Properties Promoted by Nanoscale Chemical Compatibilization. Advanced Functional Materials, 2015, 25, 2326-2334.	7.8	229
685	Development of monolithic adsorbent via polymeric sol–gel process for low-concentration CO2 capture. Applied Energy, 2015, 147, 308-317.	5.1	71
686	Superelastic and Superhydrophobic Nanofiber-Assembled Cellular Aerogels for Effective Separation of Oil/Water Emulsions. ACS Nano, 2015, 9, 3791-3799.	7.3	612
687	Full scale experimentation on a new translucent passive solar wall combining silica aerogels and phase change materials. Solar Energy, 2015, 115, 733-742.	2.9	59
688	Silica aerogel-supported cobalt nanocomposites as efficient catalysts toward hydrogen generation from aqueous ammonia borane. RSC Advances, 2015, 5, 13985-13992.	1.7	26
689	Recent progress in micro-scale energy storage devices and future aspects. Journal of Materials Chemistry A, 2015, 3, 22507-22541.	5.2	169
690	Binary Crystallized Supramolecular Aerogels Derived from Host–Guest Inclusion Complexes. ACS Nano, 2015, 9, 11389-11397.	7.3	64
691	Hybrid aerogel preparations as drug delivery matrices for low water-solubility drugs. International Journal of Pharmaceutics, 2015, 496, 360-370.	2.6	51
692	Graphene oxide aided structural tailoring of 3-D N-doped amorphous carbon network for enhanced energy storage. RSC Advances, 2015, 5, 93423-93432.	1.7	30

#	Article	IF	CITATIONS
693	Chitosan Aerogels: Transparent, Flexible Thermal Insulators. Chemistry of Materials, 2015, 27, 7569-7572.	3.2	160
694	Surface modification of titania aerogel films by oxygen plasma treatment for enhanced dye adsorption. Thin Solid Films, 2015, 595, 164-170.	0.8	42
695	Sol–gel method to prepare graphene/Fe2O3 aerogel and its catalytic application for the thermal decomposition of ammonium perchlorate. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	42
696	A facile citric acid assisted sol–gel method for preparing monolithic yttria-stabilized zirconia aerogel. RSC Advances, 2015, 5, 84280-84283.	1.7	25
697	Fe/Al binary oxide aerogels and xerogels for catalytic oxidation of aqueous contaminants. Separation and Purification Technology, 2015, 156, 1035-1040.	3.9	7
698	Synthesis of silica–titania composite aerogel beads for the removal of Rhodamine B in water. RSC Advances, 2015, 5, 72437-72443.	1.7	39
699	Preparation of cross-linked cellulose nanofibril aerogel with water absorbency and shape recovery. Cellulose, 2015, 22, 3715-3724.	2.4	75
700	The influence of gaseous heat conduction to the effective thermal conductivity of nano-porous materials. International Communications in Heat and Mass Transfer, 2015, 68, 158-161.	2.9	54
701	A facile low-temperature synthesis of TiO2 nanoparticles with excellent polymorph control. Journal of Sol-Gel Science and Technology, 2015, 76, 395-401.	1.1	7
702	Calf thymus DNA characterization and its adsorption on different silica surfaces. RSC Advances, 2015, 5, 57950-57959.	1.7	9
703	Chitosan–silica composite aerogels: preparation, characterization and Congo red adsorption. Journal of Sol-Gel Science and Technology, 2015, 76, 501-509.	1.1	49
704	Facile preparation of a SiO ₂ â€"Al ₂ O ₃ aerogel using coal gangue as a raw material via an ambient pressure drying method and its application in organic solvent adsorption. RSC Advances, 2015, 5, 103656-103661.	1.7	28
705	A New Method for Measuring the Thermal Insulation Properties of Fibrous Silica Aerogel Composite., 2015, 11, 583-587.		8
706	3D graphene nanomaterials for binder-free supercapacitors: scientific design for enhanced performance. Nanoscale, 2015, 7, 6957-6990.	2.8	168
707	Multi-scale simulation of the tensile properties of fiber-reinforced silica aerogel composites. Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing, 2015, 625, 278-287.	2.6	32
708	Silicaâ€based matrices: State of the art and new perspectives for therapeutic drug delivery. Biotechnology and Applied Biochemistry, 2015, 62, 754-764.	1.4	11
709	Chitosan as a Sustainable Organocatalyst: A Concise Overview. ChemSusChem, 2015, 8, 217-244.	3.6	193
710	Synthesis, pore structure and properties of polyurethane/silica hybrid aerogels dried at ambient pressure. Journal of Industrial and Engineering Chemistry, 2015, 21, 797-804.	2.9	35

#	Article	IF	CITATIONS
711	Preparation and characterization of metallic copper-based aerogel with the building block of nano-crystals. Materials Letters, 2015, 139, 205-207.	1.3	7
712	Silica-Aerogel Cotton Composites as Sound Absorber. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	18
713	Supercritical impregnation of drugs and supercritical fluid deposition of metals into aerogels. Journal of Materials Science, 2015, 50, 1-12.	1.7	51
714	Shortened aerogel fabrication times using an ethanol–water azeotrope as a gelation and drying solvent. Journal of Materials Chemistry A, 2015, 3, 762-772.	5.2	28
715	Microporous and Mesoporous Materials in Decontamination of Water Process., 2016,,.		2
716	Recent Progress in Fabrication of Nanostructured Carbon Monolithic Materials. , 2016, , .		0
718	Synthesis of Monolithic Fe ₂ O ₃ -Al ₂ O ₃ Composite Aerogels via Organic Solvent Sublimation Drying. Journal of Nanomaterials, 2016, 2016, 1-6.	1.5	5
719	Thermochemical Properties of Glass Wool/Maerogel Composites. Advances in Materials Science and Engineering, 2016, 2016, 1-5.	1.0	2
720	Bacterial NanoCellulose Aerogels. , 2016, , 73-108.		4
721	Benchtop Scale Testing of Aerogel Catalysts: Preliminary Results. , 0, , .		5
722	Cubic Polyhedral Oligomeric Silsesquioxane Based Functional Materials: Synthesis, Assembly, and Applications. Chemistry - an Asian Journal, 2016, 11, 1322-1337.	1.7	142
723	Utilization of supercritical CO ₂ as a processing aid in setting functionality of starch-based materials. Starch/Staerke, 2016, 68, 821-833.	1.1	41
724	Fabrication of native silica, cross-linked, and hybrid aerogel monoliths with customized geometries. Translational Materials Research, 2016, 3, 015002.	1.2	10
725	From 1D to 3D – macroscopic nanowire aerogel monoliths. Nanoscale, 2016, 8, 14074-14077.	2.8	31
726	Incorporation of graphene into silica-based aerogels and application for water remediation. RSC Advances, 2016, 6, 66516-66523.	1.7	30
727	Nanoporous aerogel as a bacteria repelling hygienic material for healthcare environment. Nanotechnology, 2016, 27, 085705.	1.3	18
728	Recent Progress in Wellâ€Controlled Synthesis of Ceriaâ€Based Nanocatalysts towards Enhanced Catalytic Performance. Advanced Energy Materials, 2016, 6, 1600501.	10.2	115
729	Alginate-based hybrid aerogel microparticles for mucosal drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 107, 160-170.	2.0	109

#	Article	IF	CITATIONS
730	One-step synthesis of nano-porous monolithic polyimide aerogel. Microporous and Mesoporous Materials, 2016, 234, 35-42.	2.2	35
731	Reversible superhydrophobic coatings on lifeless and biotic surfaces via dry-painting of aerogel microparticles. Journal of Materials Chemistry A, 2016, 4, 11408-11415.	5.2	35
732	Excellent photocatalytic performance of cobalt-doped titanium dioxide nanotubes under ultraviolet light. Nanomaterials and Nanotechnology, 2016, 6, 184798041668080.	1.2	5
733	SiO2–TiO2 binary aerogels: Synthesis in new supercritical fluids and study of thermal stability. Russian Journal of Inorganic Chemistry, 2016, 61, 1339-1346.	0.3	8
734	Preparation and characterization of monolithic Al ₂ 0 ₃ –SiO ₂ aerogel. Journal of the Ceramic Society of Japan, 2016, 124, 442-447.	0.5	16
735	Transparent Aerogels with High Mechanical Strength Composed of Cellulose-silica Cross-linked networks. MATEC Web of Conferences, 2016, 64, 05001.	0.1	3
736	Accurate bulk density determination of irregularly shaped translucent and opaque aerogels. Applied Physics Letters, 2016, 108, 194104.	1.5	5
737	Preparation and Characterization of Mullite Fiber-Reinforced Al ₂ Aerogel Composites. Key Engineering Materials, 0, 697, 360-363.	0.4	10
738	Photocatalytic activity of TiO2 supported SiO2-Al2O3 aerogels prepared from industrial fly ash. Chinese Journal of Catalysis, 2016, 37, 2025-2033.	6.9	27
739	Drying techniques applied to cellulose nanofibers. Journal of Reinforced Plastics and Composites, 2016, 35, 682-697.	1.6	86
740	Thermoresponsive Shape-Memory Aerogels from Thiol–Ene Networks. Chemistry of Materials, 2016, 28, 2341-2347.	3.2	42
741	Morphological Characterization of ALD and Doping Effects on Mesoporous SnO ₂ Aerogels by XPS and Quantitative SEM Image Analysis. ACS Applied Materials & Diterfaces, 2016, 8, 9849-9854.	4.0	6
742	Mechanical performance and architecture of biocomposite honeycombs and foams from core–shell holocellulose nanofibers. Composites Part A: Applied Science and Manufacturing, 2016, 88, 116-122.	3.8	32
743	Green lightweight cementitious composite incorporating aerogels and fly ash cenospheres – Mechanical and thermal insulating properties. Construction and Building Materials, 2016, 116, 422-430.	3.2	134
744	The formation of ultralow-density microcellular diane-formaldehyde gels and aerogels. Polymer Science - Series B, 2016, 58, 173-182.	0.3	2
745	Preparation and characterization of hybrid aerogels from novolac and hydroxyl-terminated polybutadiene. Journal of Materials Science, 2016, 51, 7861-7873.	1.7	7
746	Synthesis and Properties of Luminescent Silicon Nanocrystal/Silica Aerogel Hybrid Materials. Chemistry of Materials, 2016, 28, 3877-3886.	3.2	31
747	Mechanically flexible and optically transparent three-dimensional nanofibrous amorphous aerocellulose. Carbohydrate Polymers, 2016, 149, 217-223.	5.1	10

#	Article	IF	CITATIONS
748	Modifications in development of graphene oxide synthetic routes. Chemical Engineering Journal, 2016, 294, 458-477.	6.6	77
749	Rapid preparation process, structure and thermal stability of lanthanum doped alumina aerogels with a high specific surface area. RSC Advances, 2016, 6, 26271-26279.	1.7	17
750	Synthesis and Characterization of the Monolithic NiO-Al ₂ O ₃ Aerogels. ECS Journal of Solid State Science and Technology, 2016, 5, N1-N3.	0.9	4
751	Synthesis and optical property of zinc aluminate spinel cryogels. Journal of Asian Ceramic Societies, 2016, 4, 185-190.	1.0	5
752	Synthetic Methodology for the Fabrication of Porous Porphyrin Materials with Metal–Organic–Polymer Aerogels. Inorganic Chemistry, 2016, 55, 5287-5296.	1.9	30
7 53	Impregnation of metal ions into porphyrin-based imine gels to modulate guest uptake and to assemble a catalytic microfluidic reactor. Journal of Materials Chemistry A, 2016, 4, 8328-8336.	5.2	26
754	Recent advances in aerogels for environmental remediation applications: A review. Chemical Engineering Journal, 2016, 300, 98-118.	6.6	494
755	Correlating Lithium Hydroxyl Accumulation with Capacity Retention in V ₂ O ₅ Aerogel Cathodes. ACS Applied Materials & Samp; Interfaces, 2016, 8, 11532-11538.	4.0	33
756	Assembly of ultrasmall Cu3N nanoparticles into three-dimensional porous monolithic aerogels. Dalton Transactions, 2016, 45, 11616-11619.	1.6	19
757	Investigation on porous properties of carbon/carbon composite cryogels by using weighted arithmetic mean. Microporous and Mesoporous Materials, 2016, 231, 57-65.	2.2	3
758	Tough Polymer Aerogels Incorporating a Conformal Inorganic Coating for Low Flammability and Durable Hydrophobicity. ACS Applied Materials & Samp; Interfaces, 2016, 8, 13051-13057.	4.0	50
759	Tailoring the textural properties of hierarchical porous carbons using deep eutectic solvents. Journal of Materials Chemistry A, 2016, 4, 9146-9159.	5.2	39
760	Advanced three dimensional characterization of silica-based ultraporous materials. RSC Advances, 2016, 6, 10625-10632.	1.7	30
761	Flammability and oxidation kinetics of hydrophobic silica aerogels. Journal of Hazardous Materials, 2016, 320, 350-358.	6.5	54
762	Amine hybrid zirconia/silica composite aerogel for low-concentration CO2 capture. Microporous and Mesoporous Materials, 2016, 236, 269-276.	2.2	37
763	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. Nano Letters, 2016, 16, 6516-6522.	4.5	241
764	Aerogels: Cellulose-Based. , 2016, , 37-75.		3
766	Monolithic organic aerogels derived from single amino-acid based supramolecular gels: physical and thermal properties. RSC Advances, 2016, 6, 102198-102205.	1.7	16

#	Article	IF	CITATIONS
767	Preparation and Characterization of Monolithic Al ₂ O ₃ Aerogels. Materials Science Forum, 0, 852, 591-595.	0.3	0
768	Amine hybrid aerogel for high-efficiency CO 2 capture: Effect of amine loading and CO 2 concentration. Chemical Engineering Journal, 2016, 306, 362-368.	6.6	77
769	Correlation between structure and oxidation behavior of carbon aerogels. Journal of Energy Storage, 2016, 7, 195-203.	3.9	18
770	Monolithic Polymeric Aerogels with Organically Modified Clays and Graphite Oxide Nanofillers. Macromolecular Symposia, 2016, 359, 32-43.	0.4	0
771	Preparation and characterization of the semiconductor CuMnO2 by sol-gel route. Materials Science in Semiconductor Processing, 2016, 56, 14-19.	1.9	26
772	Facile One-Pot Synthesis of Mechanically Robust Biopolymer–Silica Nanocomposite Aerogel by Cogelation of Silicic Acid with Chitosan in Aqueous Media. ACS Sustainable Chemistry and Engineering, 2016, 4, 5674-5683.	3.2	68
773	Porosity of wood pulp fibers in the wet and highly open dry state. Microporous and Mesoporous Materials, 2016, 234, 326-335.	2.2	47
774	Compressible, amphiphilic graphene-based aerogel using a molecular glue to link graphene sheets and coated-polymer layers. Materials and Design, 2016, 110, 839-848.	3.3	17
775	Graphene/nickel aerogel: an effective catalyst for the thermal decomposition of ammonium perchlorate. RSC Advances, 2016, 6, 82112-82117.	1.7	17
776	Theoretical study on the oligomerization mechanisms of bihydroxysilicone. Journal of Molecular Modeling, 2016, 22, 211.	0.8	3
777	Transport properties of aerogel-based nanofibrous nonwoven fabrics. Fibers and Polymers, 2016, 17, 1709-1714.	1.1	29
778	Bilayered Nanostructured V ₂ O ₅ Â <i>n</i> H ₂ O for Metal Batteries. Advanced Energy Materials, 2016, 6, 1600868.	10.2	154
779	Transparent and flame retardant cellulose/aluminum hydroxide nanocomposite aerogels. Science China Chemistry, 2016, 59, 1335-1341.	4.2	45
780	Effect of thermal treatment on the textural properties and thermal stability of surface modified zirconia aerogel powders. International Journal of Nanotechnology, 2016, 13, 452.	0.1	5
781	Homogenized electrospun nanofiber reinforced microporous polymer sponge. Chemical Engineering Journal, 2016, 306, 242-250.	6.6	32
782	Thermodynamic and hydrodynamic study of a gas-liquid flow in a cyclone separator downstream supercritical drying. Journal of Supercritical Fluids, 2016, 118, 27-38.	1.6	6
783	Nanoporous-crystalline poly(2,6-dimethyl-1,4-phenylene)oxide (PPO) aerogels. Polymer, 2016, 105, 96-103.	1.8	36
785	Activated Carbon Nanogels. , 2016, , 187-202.		0

#	Article	IF	CITATIONS
786	From anisotropic graphene aerogels to electron- and photo-driven phase change composites. Journal of Materials Chemistry A, 2016, 4, 17042-17049.	5.2	179
787	Moisture-Resistant Polyimide Aerogels Containing Propylene Oxide Links in the Backbone. ACS Applied Materials & Samp; Interfaces, 2016, 8, 29073-29079.	4.0	51
788	Phytosterol nanoparticles with reduced crystallinity generated using nanoporous starch aerogels. RSC Advances, 2016, 6, 108319-108327.	1.7	40
789	Amyloid Templated Gold Aerogels. Advanced Materials, 2016, 28, 472-478.	11.1	149
790	Prospects of Supercritical Fluids in Realizing Grapheneâ€Based Functional Materials. Advanced Materials, 2016, 28, 2663-2691.	11.1	66
791	High surface area hierarchical porous Al ₂ O ₃ prepared by the integration of sol–gel transition and phase separation. RSC Advances, 2016, 6, 57217-57226.	1.7	18
792	Synthesis and biomedical applications of aerogels: Possibilities and challenges. Advances in Colloid and Interface Science, 2016, 236, 1-27.	7.0	270
793	Macroscopic porous MnO ₂ aerogels for supercapacitor electrodes. Inorganic Chemistry Frontiers, 2016, 3, 1043-1047.	3.0	29
794	Graphene and carbon-based nanomaterials as highly efficient adsorbents for oils and organic solvents. Nanotechnology Reviews, 2016, 5, .	2.6	42
795	Aerogels for thermal insulation in high-performance textiles. Textile Progress, 2016, 48, 55-118.	1.3	63
796	Reuseable Monolithic Nanoporous Graphite-Supported Nanocatalysts (Fe, Au, Pt, Pd, Ni, and Rh) from Pyrolysis and Galvanic Transmetalation of Ferrocene-Based Polyamide Aerogels. Chemistry of Materials, 2016, 28, 4867-4877.	3.2	33
797	Nanostructured manganese oxide on frozen smoke: A new water-oxidizing composite. International Journal of Hydrogen Energy, 2016, 41, 2466-2476.	3.8	27
798	Flexible and Transparent Cellulose Aerogels with Uniform Nanoporous Structure by a Controlled Regeneration Process. ACS Sustainable Chemistry and Engineering, 2016, 4, 656-660.	3.2	99
799	Three-Dimensional Assembly of Yttrium Oxide Nanosheets into Luminescent Aerogel Monoliths with Outstanding Adsorption Properties. ACS Nano, 2016, 10, 2467-2475.	7.3	84
800	Ultralight, compressible and multifunctional carbon aerogels based on natural tubular cellulose. Journal of Materials Chemistry A, 2016, 4, 2069-2074.	5.2	141
801	Dynamic spring-back behavior in evaporative drying of polymethylsilsesquioxane monolithic gels for low-density transparent thermal superinsulators. Journal of Non-Crystalline Solids, 2016, 434, 115-119.	1.5	41
802	Bacterial Cellulose: A Robust Platform for Design of Three Dimensional Carbon-Based Functional Nanomaterials. Accounts of Chemical Research, 2016, 49, 96-105.	7.6	322
803	Lignin-Based Aerogels. , 2016, , 67-93.		15

#	Article	IF	CITATIONS
804	Tuning the structure and the mechanical properties of epoxy–silica sol–gel hybrid materials. RSC Advances, 2016, 6, 10736-10742.	1.7	9
805	Flexible silica aerogel composites strengthened with aramid fibers and their thermal behavior. Materials and Design, 2016, 99, 349-355.	3.3	110
806	Nanocellulose Aerogels as Thermal Insulation Materials. , 2016, , 411-427.		14
807	Methyl tert-butyl ether as a new solvent for the preparation of SiO2–TiO2 binary aerogels. Inorganic Materials, 2016, 52, 163-169.	0.2	11
808	Direct preparation of green and renewable aerogel materials from crude bagasse. Cellulose, 2016, 23, 1325-1334.	2.4	29
809	Review of aerogel-based materials in biomedical applications. Journal of Sol-Gel Science and Technology, 2016, 77, 738-752.	1,1	202
810	Nanogel Windows for Energy Building Efficiency. , 2016, , 41-69.		11
811	Synthesis of aluminosilicate monolithic system by a novel fast ambient drying process. Ceramics International, 2016, 42, 5100-5106.	2.3	4
812	Super-hydrophobic hexamethyl-disilazane modified ZrO ₂ â€"SiO ₂ aerogels with excellent thermal stability. Journal of Materials Chemistry A, 2016, 4, 5632-5638.	5.2	61
813	Electrospun nanofibrous materials: a versatile medium for effective oil/water separation. Materials Today, 2016, 19, 403-414.	8.3	369
814	Effect of storage and curing conditions at elevated temperatures on aerogel-incorporated mortar samples based on UHPC recipe. Construction and Building Materials, 2016, 106, 640-649.	3.2	57
815	Antibacterial activity of diisocyanate-modified chitosan for biomedical applications. International Journal of Biological Macromolecules, 2016, 84, 349-353.	3.6	70
816	Synthesis and application of several sol–gel-derived materials via sol–gel process combining with other technologies: a review. Journal of Sol-Gel Science and Technology, 2016, 79, 328-358.	1.1	52
817	Surface-Functionalization of Nanostructured Cellulose Aerogels by Solid State Eumelanin Coating. Biomacromolecules, 2016, 17, 564-571.	2.6	45
818	Review of the recent developments in cellulose nanocomposite processing. Composites Part A: Applied Science and Manufacturing, 2016, 83, 2-18.	3.8	573
819	Photochemical strengthening of silica aerogels modified with coumarin groups. Journal of Non-Crystalline Solids, 2016, 432, 189-195.	1.5	3
820	Self-assembly of 2D MnO ₂ nanosheets into high-purity aerogels with ultralow density. Chemical Science, 2016, 7, 1926-1932.	3.7	40
821	Preparation and photocatalytic performance of magnetic Fe3O4@TiO2 core–shell microspheres supported by silica aerogels from industrial fly ash. Journal of Alloys and Compounds, 2016, 659, 240-247.	2.8	90

#	Article	IF	Citations
822	Structure and morphology evolution of silica-modified pseudoboehmite aerogels during heat treatment. Journal of Solid State Chemistry, 2016, 233, 294-302.	1.4	35
823	Soy protein directed hydrothermal synthesis of porous carbon aerogels for electrocatalytic oxygen reduction. Carbon, 2016, 96, 622-630.	5.4	84
824	The thermal protection and comfort properties of aerogel and PCM-coated fabric for firefighter garment. Journal of Industrial Textiles, 2016, 45, 611-625.	1.1	59
825	Dynamic capture of low-concentration CO2 on amine hybrid silsesquioxane aerogel. Chemical Engineering Journal, 2016, 283, 1059-1068.	6.6	72
826	Carbon dioxide adsorption by zinc-functionalized ionic liquid impregnated into bio-templated mesoporous silica beads. Chemical Engineering Journal, 2016, 283, 692-702.	6.6	49
827	Low-density, transparent aerogels and xerogels based on hexylene-bridged polysilsesquioxane with bendability. Journal of Sol-Gel Science and Technology, 2017, 81, 42-51.	1.1	32
828	Mechanism of drug release from silica-gelatin aerogelâ€"Relationship between matrix structure and release kinetics. Colloids and Surfaces B: Biointerfaces, 2017, 152, 229-237.	2.5	60
829	Highly Porous, Rigid-Rod Polyamide Aerogels with Superior Mechanical Properties and Unusually High Thermal Conductivity. ACS Applied Materials & Samp; Interfaces, 2017, 9, 1801-1809.	4.0	94
830	A two-step Sol-Gel method to synthesize a ladder polymethylsilsesquioxane nanoparticles. Advanced Powder Technology, 2017, 28, 1038-1046.	2.0	22
831	Cyclic molecule aerogels: a robust cyclodextrin monolith with hierarchically porous structures for removal of micropollutants from water. Journal of Materials Chemistry A, 2017, 5, 4308-4313.	5.2	58
832	Facile fabrication of mechanical monolithic polyamide aerogels via a modified sol–gel method. Journal of Sol-Gel Science and Technology, 2017, 82, 417-423.	1.1	10
833	Moderne Anorganische Aerogele. Angewandte Chemie, 2017, 129, 13380-13403.	1.6	11
834	Modern Inorganic Aerogels. Angewandte Chemie - International Edition, 2017, 56, 13200-13221.	7.2	303
835	Facile Fabrication of Ultralowâ€Density Transparent Boehmite Nanofiber Cryogel Beads and Their Application to a Nanoglue. ChemNanoMat, 2017, 3, 168-171.	1.5	8
836	Effect of drying method on the structure and porous texture of silica-polybutadiene hybrid gels: Supercritical vs. ambient pressure drying. Journal of Non-Crystalline Solids, 2017, 460, 119-124.	1.5	9
837	One-Pot Synthesis of Fe ₃ O ₄ Nanoparticle Loaded 3D Porous Graphene Nanocomposites with Enhanced Nanozyme Activity for Glucose Detection. ACS Applied Materials & Interfaces, 2017, 9, 7465-7471.	4.0	188
838	Gold nanoparticles supported on cellulose aerogel as a new efficient catalyst for epoxidation of styrene. Journal of the Iranian Chemical Society, 2017, 14, 1107-1112.	1.2	35
839	The effect of sectioning and ultrasonication on the mesoporosity of poplar tension wood. Wood Science and Technology, 2017, 51, 507-516.	1.4	6

#	Article	IF	CITATIONS
844	An Introduction to Sol-Gel Processing for Aerogels. Advances in Sol-gel Derived Materials and Technologies, 2017, , 1-22.	0.3	15
845	Highly Flexible Hybrid Polymer Aerogels and Xerogels Based on Resorcinol-Formaldehyde with Enhanced Elastic Stiffness and Recoverability: Insights into the Origin of Their Mechanical Properties. Chemistry of Materials, 2017, 29, 2122-2134.	3.2	76
846	Synthesis and characterization of a low-cost aerogel structure using classical drying methods for thermal insulation. International Journal of Structural Integrity, 2017, 8, 256-263.	1.8	0
847	A novel starch-enhanced melamine-formaldehyde aerogel with low volume shrinkage and high toughness. Journal of Porous Materials, 2017, 24, 1303-1307.	1.3	27
848	Facile fabrication of multifunctional monolithic polyamide aerogels. Journal of Porous Materials, 2017, 24, 1165-1173.	1.3	6
849	Preparation and characterization of thermal protective aluminum hydroxide aerogel/PSA fabric composites. Journal of Sol-Gel Science and Technology, 2017, 82, 370-379.	1.1	16
850	Effect of Bulky Substituents in the Polymer Backbone on the Properties of Polyimide Aerogels. ACS Applied Materials & Samp; Interfaces, 2017, 9, 8287-8296.	4.0	51
851	Thermoreversible Gelation of Poly(ether ether ketone). ACS Macro Letters, 2017, 6, 262-266.	2.3	30
852	Copper Nanowire-Based Aerogel with Tunable Pore Structure and Its Application as Flexible Pressure Sensor. ACS Applied Materials & Sensor. ACS ACS Applied Materials & Sensor. ACS	4.0	138
853	Monolithic organosilica aerogel consisting of hollow microspheres by a simple ambient pressure drying process. Materials Letters, 2017, 199, 21-23.	1.3	6
854	Sol-gel chemistry, templating and spin-coating deposition: A combined approach to control in a simple way the porosity of inorganic thin films/coatings. Microporous and Mesoporous Materials, 2017, 248, 18-29.	2.2	72
855	Ice-Assisted Assembly of Liquid Crystalline Cellulose Nanocrystals for Preparing Anisotropic Aerogels with Ordered Structures. Chemistry of Materials, 2017, 29, 3980-3988.	3.2	65
856	Ionic liquids assisted processing of renewable resources for the fabrication of biodegradable composite materials. Green Chemistry, 2017, 19, 2051-2075.	4.6	118
857	Microwave assisted synthesis of high surface area TiO 2 aerogels: A competent photoanode material for quasi-solid dye-sensitized solar cells. Materials Chemistry and Physics, 2017, 196, 37-44.	2.0	50
858	Electromagnetic interference shielding properties and mechanisms of chemically reduced graphene aerogels. Applied Surface Science, 2017, 412, 529-536.	3.1	81
859	Enhanced resistance of nanocellular silica to dynamic indentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 693, 121-128.	2.6	0
860	Selective CO ₂ Sequestration with Monolithic Bimodal Micro/Macroporous Carbon Aerogels Derived from Stepwise Pyrolytic Decomposition of Polyamide-Polyimide-Polyurea Random Copolymers. ACS Applied Materials & Decomposition of Polyamide Polyurea Random Copolymers. ACS Applied Materials & Decomposition of Polyamide Polyurea Random Copolymers. ACS Applied Materials & Decomposition of Polyamide Polyurea Random Copolymers.	4.0	48
861	Ultrahighâ€Waterâ€Content, Superelastic, and Shapeâ€Memory Nanofiberâ€Assembled Hydrogels Exhibiting Pressureâ€Responsive Conductivity. Advanced Materials, 2017, 29, 1700339.	11.1	206

#	Article	IF	CITATIONS
862	3D hierarchical and porous layered double hydroxide structures: an overview of synthesis methods and applications. Journal of Materials Science, 2017, 52, 11229-11250.	1.7	57
863	Facile and novel synthesis of palladium nanoparticles supported on a carbon aerogel for ultrasensitive electrochemical sensing of biomolecules. Nanoscale, 2017, 9, 6486-6496.	2.8	46
864	Superinsulating Polyisocyanate Based Aerogels: A Targeted Search for the Optimum Solvent System. ACS Applied Materials & Diterfaces, 2017, 9, 18222-18230.	4.0	30
865	Ultralight Multifunctional Carbonâ€Based Aerogels by Combining Graphene Oxide and Bacterial Cellulose. Small, 2017, 13, 1700453.	5.2	79
866	Investigation of inherent differences between oxide supports in heterogeneous catalysis in the absence of structural variations. Journal of Catalysis, 2017, 351, 49-58.	3.1	23
867	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
868	Effect of mass concentration on bioactivity and cell viability of calcined silica aerogel synthesized from rice husk ash as silica source. Journal of Sol-Gel Science and Technology, 2017, 82, 120-132.	1.1	8
869	Synthesis and properties of melamine–starch hybrid aerogels cross-linked with formaldehyde. Journal of Sol-Gel Science and Technology, 2017, 83, 44-52.	1.1	10
870	Double-activated porous carbons for high-performance supercapacitor electrodes. Rare Metals, 2017, 36, 449-456.	3.6	23
871	Metal-organic aerogel as a coating for solid-phase microextraction. Analytica Chimica Acta, 2017, 973, 51-58.	2.6	38
872	Shape Memory Superelastic Poly(isocyanurate-urethane) Aerogels (PIR-PUR) for Deployable Panels and Biomimetic Applications. Chemistry of Materials, 2017, 29, 4461-4477.	3.2	56
873	Exploitation of \hat{I}^e -carrageenan aerogels as template for edible oleogel preparation. Food Hydrocolloids, 2017, 71, 68-75.	5.6	110
874	Functionalized silica aerogels for gas-phase purification, sensing, and catalysis: A review. Microporous and Mesoporous Materials, 2017, 250, 100-119.	2.2	132
875	A novel silica nanowire-silica composite aerogels dried at ambient pressure. Materials and Design, 2017, 115, 415-421.	3.3	68
876	Oxidation-mediated chitosan as additives for creation of chitosan aerogels with diverse three-dimensional interconnected skeletons. Applied Surface Science, 2017, 396, 1220-1225.	3.1	16
877	A versatile and efficient approach to separate both surfactant-stabilized water-in-oil and oil-in-water emulsions. Separation and Purification Technology, 2017, 176, 1-7.	3.9	34
878	Novel Polymer Aerogel toward High Dimensional Stability, Mechanical Property, and Fire Safety. ACS Applied Materials & Samp; Interfaces, 2017, 9, 22985-22993.	4.0	72
879	The influence of thermal treatment on the microstructure and thermal insulation performance of silica aerogels. Journal of Non-Crystalline Solids, 2017, 470, 178-183.	1.5	27

#	Article	IF	Citations
880	A general strategy for improving the thermal insulation performance of aerogels by multiple impregnation. Scripta Materialia, 2017, 139, 5-8.	2.6	15
881	Graphene aerogels: a review. 2D Materials, 2017, 4, 032001.	2.0	195
883	Ultralight, scalable, and high-temperature–resilient ceramic nanofiber sponges. Science Advances, 2017, 3, e1603170.	4.7	207
884	Super absorbent, light, and highly flame retardant celluloseâ€based aerogel crosslinked with citric acid. Journal of Applied Polymer Science, 2017, 134, 45315.	1.3	63
885	Synthesis and characterization of partially fluorinated aerogels and xerogels from environmentally-compatible precursors. RSC Advances, 2017, 7, 21962-21968.	1.7	5
886	A simple facile preparation of methyltriethoxysilane based flexible silica aerogel monoliths. Materials Letters, 2017, 204, 93-96.	1.3	28
887	Nanocellulose-based foams and aerogels: processing, properties, and applications. Journal of Materials Chemistry A, 2017, 5, 16105-16117.	5.2	466
888	Polyimide aerogels crosslinked through cyclic ladderâ€like and cage polyamine functionalized polysilsesquioxanes. Journal of Applied Polymer Science, 2017, 134, 45296.	1.3	10
889	The impact of Si/Al ratio on properties of aluminosilicate aerogels. Microporous and Mesoporous Materials, 2017, 251, 105-113.	2.2	33
890	Hydrophobic silica composite aerogels using poly(methyl methacrylate) by rapid supercritical extraction process. Journal of Sol-Gel Science and Technology, 2017, 83, 692-697.	1.1	21
891	Generating phytosterol nanoparticles in nanoporous bioaerogels via supercritical carbon dioxide impregnation: Effect of impregnation conditions. Journal of Food Engineering, 2017, 207, 99-107.	2.7	41
892	Lupin hull cellulose nanofiber aerogel preparation by supercritical CO 2 and freeze drying. Journal of Supercritical Fluids, 2017, 127, 137-145.	1.6	74
893	Prospect of Thermal Insulation by Silica Aerogel: A Brief Review. Journal of the Institution of Engineers (India): Series D, 2017, 98, 297-304.	0.6	48
894	3D assembly based on 2D structure of Cellulose Nanofibril/Graphene Oxide Hybrid Aerogel for Adsorptive Removal of Antibiotics in Water. Scientific Reports, 2017, 7, 45914.	1.6	114
895	Facile preparation of cross-linked polyimide aerogels with carboxylic functionalization for CO 2 capture. Chemical Engineering Journal, 2017, 322, 1-9.	6.6	59
896	Morphological features of aerogels and carbogels based on lignosulfonates. Holzforschung, 2017, 71, 583-590.	0.9	14
897	Graphene oxide reinforced high surface area silica aerogels. Journal of Non-Crystalline Solids, 2017, 465, 31-38.	1.5	43
898	Template-Method Synthesis of High-Surface-Area Monolithic Carbon Aerogels and Their Applications for Hydrogen and Deuterium Adsorption. International Journal of Nanoscience, 2017, 16, 1750010.	0.4	3

#	Article	IF	Citations
899	Nonequilibrium Catalyst Materials Stabilized by the Aerogel Effect: Solvent Free and Continuous Synthesis of Gamma-Alumina with Hierarchical Porosity. ACS Applied Materials & Samp; Interfaces, 2017, 9, 11599-11608.	4.0	8
900	Aerogel volatiles concentrator and analyzer (AVCA) $\hat{a}\in$ Collection and concentration of trace volatile organics in aerogel for spectroscopic detection. Icarus, 2017, 284, 150-156.	1.1	1
901	Regulating pore structure of carbon aerogels by graphene oxide as  shape-directing' agent. Microporous and Mesoporous Materials, 2017, 240, 145-148.	2.2	14
902	Enhancements of thermal insulation and mechanical property of silica aerogel monoliths by mixing graphene oxide. Materials Chemistry and Physics, 2017, 187, 183-190.	2.0	83
903	Graphene/montmorillonite hybrid synergistically reinforced polyimide composite aerogels with enhanced flame-retardant performance. Composites Science and Technology, 2017, 139, 57-63.	3.8	127
904	The effects of hydrolysis level on structural properties of titania aerogels. Journal of Non-Crystalline Solids, 2017, 457, 175-179.	1.5	9
906	A pure magnetite hydrogel: synthesis, properties and possible applications. Soft Matter, 2017, 13, 8651-8660.	1.2	32
907	Sound insulation properties in low-density, mechanically strong and ductile nanoporous polyurea aerogels. Journal of Non-Crystalline Solids, 2017, 476, 36-45.	1.5	34
908	Photocatalytic Properties of Tetraphenylporphyrins Immobilized on Calcium Alginate Aerogels. Scientific Reports, 2017, 7, 12640.	1.6	15
909	Porous Chitin Microbeads for More Sustainable Cosmetics. ACS Sustainable Chemistry and Engineering, 2017, 5, 11660-11667.	3.2	57
910	Aerogels from Chloromethyltrimethoxysilane and Their Functionalizations. Langmuir, 2017, 33, 13841-13848.	1.6	4
911	Versatile protonic acid mediated preparation of partially deacetylated chitin nanofibers/nanowhiskers and their assembling of nano-structured hydro- and aero-gels. Cellulose, 2017, 24, 5443-5454.	2.4	10
912	One-pot sol–gel synthesis of amine hybrid titania/silsesquioxane composite aerogel for CO2 capture. Journal of Sol-Gel Science and Technology, 2017, 84, 422-431.	1.1	10
913	Direct Laser Writing of Lowâ€Density Interdigitated Foams for Plasma Drive Shaping. Advanced Functional Materials, 2017, 27, 1702425.	7.8	44
914	Transparent Cellulose–Silica Composite Aerogels with Excellent Flame Retardancy via an in Situ Sol–Gel Process. ACS Sustainable Chemistry and Engineering, 2017, 5, 11117-11123.	3.2	81
915	Liquid crystalline cellulose-based nematogels. Science Advances, 2017, 3, e1700981.	4.7	36
916	Translucent, hydrophobic, and mechanically tough aerogels constructed from trimethylsilylated chitosan nanofibers. Nanoscale, 2017, 9, 12311-12315.	2.8	51
917	Ambient Pressure Hybrid Silica Monoliths with Hexamethyldisilazane: From Vitreous Hydrophilic Xerogels to Superhydrophobic Aerogels. ACS Omega, 2017, 2, 5060-5070.	1.6	13

#	Article	IF	CITATIONS
918	Mechanochemical assembly of 3D mesoporous conducting-polymer aerogels for high performance hybrid electrochemical energy storage. Nano Energy, 2017, 41, 193-200.	8.2	20
919	Large-Area Nanolattice Film with Enhanced Modulus, Hardness, and Energy Dissipation. Scientific Reports, 2017, 7, 9145.	1.6	14
921	Silicon-zinc-glycerol hydrogel, a potential immunotropic agent for topical application. European Journal of Pharmaceutical Sciences, 2017, 107, 197-202.	1.9	10
922	Polyimide Aerogels Using Triisocyanate as Cross-linker. ACS Applied Materials & Samp; Interfaces, 2017, 9, 27313-27321.	4.0	80
923	Porous lightweight composites reinforced with fibrous structures., 2017,,.		4
924	Preparation and Structural Analysis of Magnesium Oxide Aerogels. MRS Advances, 2017, 2, 3505-3510.	0.5	1
925	Porous Structures from Bio-Based Polymers via Supercritical Drying. , 2017, , 207-243.		1
926	Carbon dioxide capture and conversion by an environmentally friendly chitosan based meso-tetrakis(4-sulfonatophenyl) porphyrin. Carbohydrate Polymers, 2017, 175, 575-583.	5.1	52
928	Preparation of carbon aerogels from TEMPO-oxidized cellulose nanofibers for organic solvents absorption. RSC Advances, 2017, 7, 38220-38230.	1.7	40
929	Nanoparticles: From Fundamentals to Applications. , 2017, , 1673-1693.		0
930	Featherlight, Mechanically Robust Cellulose Ester Aerogels for Environmental Remediation. ACS Omega, 2017, 2, 4297-4305.	1.6	47
931	Air-oxidation of phenolic resin aerogels: backbone reorganization, formation of ring-fused pyrylium cations, and the effect on microporous carbons with enhanced surface areas. RSC Advances, 2017, 7, 51104-51120.	1.7	25
932	Self-Assembly of Porous Boron Nitride Microfibers into Ultralight Multifunctional Foams of Large Sizes. ACS Applied Materials & Sizes.	4.0	64
934	Metal–Organic Framework-Derived Metal Oxide Embedded in Nitrogen-Doped Graphene Network for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Samp; Interfaces, 2017, 9, 43171-43178.	4.0	66
935	Comparative analysis of the physicochemical characteristics of SiO2 aerogels prepared by drying under subcritical and supercritical conditions. Inorganic Materials, 2017, 53, 1270-1278.	0.2	9
936	High-pressure salt templating strategy toward intact isochoric hierarchically porous carbon monoliths from ionic liquids. RSC Advances, 2017, 7, 51096-51103.	1.7	6
937	Highly thermally stable alumina-based aerogels modified by partially hydrolyzed aluminum tri-sec-butoxide. Journal of Sol-Gel Science and Technology, 2017, 84, 507-514.	1.1	28
938	Mechanical reinforcement of a cellulose aerogel with nanocrystalline cellulose as reinforcer. RSC Advances, 2017, 7, 34461-34465.	1.7	35

#	Article	IF	CITATIONS
939	Facile synthesis of microfibrillated cellulose/organosilicon/polydopamine composite sponges with flame retardant properties. Cellulose, 2017, 24, 3815-3823.	2.4	55
940	Preparation of transparent monolithic methylsilsesquioxane (MSQ) aerogels via ambient pressure drying. RSC Advances, 2017, 7, 32861-32865.	1.7	3
941	Graphene-based materials for capacitive deionization. Journal of Materials Chemistry A, 2017, 5, 13907-13943.	5.2	242
942	Ultralight and Flexible MWNTs/Polyimide Hybrid Aerogels for Elastic Conductors. Macromolecular Materials and Engineering, 2017, 302, 1700082.	1.7	14
943	Strain Hardening and Pore Size Harmonization by Uniaxial Densification: A Facile Approach toward Superinsulating Aerogels from Nematic Nanofibrillated 2,3-Dicarboxyl Cellulose. Chemistry of Materials, 2017, 29, 6630-6641.	3.2	75
944	Freeze-Drying Graphene Aerogels and their Adsorption Ability towards Organic Reagents. Materials Science Forum, 0, 898, 1923-1928.	0.3	4
945	Improvement of thermal stability of ZrO2–SiO2 aerogels by an inorganic–organic synergetic surface modification. Journal of Porous Materials, 2017, 24, 657-665.	1.3	13
946	Synthesis of aerogels: from molecular routes to 3-dimensional nanoparticle assembly. Nanoscale Horizons, 2017, 2, 6-30.	4.1	113
947	Formation of enhanced gelatum using ethanol/water binary medium for fabricating chitosan aerogels with high specific surface area. Chemical Engineering Journal, 2017, 309, 700-707.	6.6	59
948	Information Materials., 2017, , .		12
949	Facile synthesis of fluorinated resorcinol-formaldehyde aerogels. Journal of Fluorine Chemistry, 2017, 193, 1-7.	0.9	15
950	Synthesis of silica glasses doped with SiAl ON phosphors by supercritical drying. International Journal of Applied Glass Science, 2017, 8, 247-252.	1.0	4
951	Spray freeze-dried nanofibrillated cellulose aerogels with thermal superinsulating properties. Carbohydrate Polymers, 2017, 157, 105-113.	5.1	164
952	Development of high-porosity resorcinol formaldehyde aerogels with enhanced mechanical properties through improved particle necking under CO 2 supercritical conditions. Journal of Colloid and Interface Science, 2017, 485, 65-74.	5.0	49
953	Structural features of polymeric silicon glycerolate hydrogels. Russian Chemical Bulletin, 2017, 66, 1478-1482.	0.4	3
954	Investigation on laser engraving based application of silica aerogel into nonwovens. Fibers and Polymers, 2017, 18, 2469-2475.	1.1	5
955	REACH compliant epoxides used in the synthesis of Fe(III)-based aerogel monoliths for target fabrication. High Power Laser Science and Engineering, 2017, 5, .	2.0	2
956	A Scientometric Analysis of Aerogel Research in 1996-2015. , 2017, , .		0

#	Article	IF	CITATIONS
958	Preparation and Characterization of Silica Aerogel Microspheres. Materials, 2017, 10, 435.	1.3	17
959	Aerogels for Optofluidic Waveguides. Micromachines, 2017, 8, 98.	1.4	14
960	One-Step Preparation of Graphene Oxide/Cellulose Nanofibril Hybrid Aerogel for Adsorptive Removal of Four Kinds of Antibiotics. Journal of Nanomaterials, 2017, 2017, 1-10.	1.5	18
962	Advanced Hybrid Materials Based on Titanium Dioxide for Environmental and Electrochemical Applications. , 2017, , .		0
963	The Role of Sub- and Supercritical CO2 as "Processing Solvent―for the Recycling and Sample Preparation of Lithium Ion Battery Electrolytes. Molecules, 2017, 22, 403.	1.7	68
964	Recent Progress in Fabrication of Nanostructured Carbon Monolithic Materials., 2017,,.		2
966	Aerogels Derived from Polymer Nanofibers and Their Applications. Macromolecular Rapid Communications, 2018, 39, e1700724.	2.0	64
967	Ultralight, Recoverable, and High-Temperature-Resistant SiC Nanowire Aerogel. ACS Nano, 2018, 12, 3103-3111.	7. 3	298
968	Sound Transmission Loss Enhancement in an Inorganicâ€Organic Laminated Wall Panel Using Multifunctional Lowâ€Density Nanoporous Polyurea Aerogels: Experiment and Modeling. Advanced Engineering Materials, 2018, 20, 1700937.	1.6	15
969	Sturdy, Monolithic SiC and Si ₃ N ₄ Aerogels from Compressed Polymer-Cross-Linked Silica Xerogel Powders. Chemistry of Materials, 2018, 30, 1635-1647.	3.2	59
970	Effect of the addition of graphite oxide on the morphology of the alumina aerogels. AIP Advances, 2018, 8, 015208.	0.6	1
971	Aerogels and metal–organic frameworks for environmental remediation and energy production. Environmental Chemistry Letters, 2018, 16, 797-820.	8.3	57
972	Transparent, elastic and crack-free polymethylsilsesquioxane aerogels prepared by controllable shrinkage of the hydrogels in the aging process. Microporous and Mesoporous Materials, 2018, 267, 107-114.	2.2	20
973	Bioinspired Ultralight Inorganic Aerogel for Highly Efficient Air Filtration and Oil–Water Separation. ACS Applied Materials & Interfaces, 2018, 10, 13019-13027.	4.0	112
974	Silica based aerogel synthesis from fly ash and bottom ash: The effect of synthesis parameters on the structure. Main Group Chemistry, 2018, 17, 63-77.	0.4	2
975	Multi-functional hydroxyapatite/polyvinyl alcohol composite aerogels with self-cleaning, superior fire resistance and low thermal conductivity. Composites Science and Technology, 2018, 158, 128-136.	3.8	84
976	A novel TiO ₂ -SiO ₂ aerogel nanocomposite absorbent: preparation, characterization and photocatalytic degradation effects on automobile exhaust. Materials Research Express, 2018, 5, 025036.	0.8	13
977	Preparation of tetraethoxysilane-based silica aerogels with polyimide cross-linking from 3, $3\hat{a} \in ^2$, 4, $4\hat{a} \in ^2$ -biphenyltetracarboxylic dianhydride and 4, $4\hat{a} \in ^2$ -oxydianiline. Journal of Sol-Gel Science and Technology, 2018, 85, 506-513.	1.1	22

#	Article	IF	CITATIONS
978	Simple and fast method for producing flexible superhydrophobic aerogels by direct formation of thiol-ene networks in scCO2. Polymer, 2018, 138, 255-266.	1.8	27
979	Vacuum-Dried Synthesis of Low-Density Hydrophobic Monolithic Bridged Silsesquioxane Aerogels for Oil/Water Separation: Effects of Acid Catalyst and Its Excellent Flexibility. ACS Applied Nano Materials, 2018, 1, 933-939.	2.4	39
980	Methyl trifluoropyruvate – a new solvent for the production of fluorinated organic resorcinol–formaldehyde aerogels. Mendeleev Communications, 2018, 28, 102-104.	0.6	4
981	Organic–inorganic hybridization for the synthesis of robust ⟨i⟩in situ⟨li⟩ hydrophobic polypropylsilsesquioxane aerogels with fast oil absorption properties. RSC Advances, 2018, 8, 5695-5701.	1.7	16
982	Fast Synthesis of Spherical Silica Aerogel Powders by Emulsion Polymerization from Water Glass. ChemistrySelect, 2018, 3, 1257-1261.	0.7	12
983	First rare-earth phosphate aerogel: sol–gel synthesis of monolithic ceric hydrogen phosphate aerogel. Journal of Sol-Gel Science and Technology, 2018, 85, 574-584.	1.1	13
984	Synthesis of organic aerogels with tailorable morphology and strength by controlled solvent swelling following Hansen solubility. Scientific Reports, 2018, 8, 2106.	1.6	39
985	Auâ€dimercaprol functionalized cellulose aerogel: Synthesis, characterization and catalytic application. Applied Organometallic Chemistry, 2018, 32, e4255.	1.7	23
986	Aerogel materials with periodic structures imprinted with cellulose nanocrystals. Nanoscale, 2018, 10, 3805-3812.	2.8	65
987	Effect of Aerogel Incorporation in PCM-Containing Thermal Liner of Firefighting Garment. Clothing and Textiles Research Journal, 2018, 36, 151-164.	2.2	27
988	Recyclable and superelastic aerogels based on carbon nanotubes and carboxymethyl cellulose. Composites Science and Technology, 2018, 159, 1-10.	3.8	31
989	Low dielectric constant and moisture-resistant polyimide aerogels containing trifluoromethyl pendent groups. Applied Surface Science, 2018, 440, 595-605.	3.1	116
990	Synthesis and characterization of silica aerogel as a promising drug carrier system. Journal of Drug Delivery Science and Technology, 2018, 44, 205-212.	1.4	35
991	Resorcinol-formaldehyde derived carbon xerogels: A promising anode material for lithium-ion battery. Journal of Materials Research, 2018, 33, 1074-1087.	1.2	20
992	Hierarchically Designed 3D Holey C $<$ sub $>$ 2 $<$ /sub $>$ N Aerogels as Bifunctional Oxygen Electrodes for Flexible and Rechargeable Zn-Air Batteries. ACS Nano, 2018, 12, 596-608.	7.3	159
993	Advances in carbon nanostructure–silica aerogel composites: a review. Journal of Materials Chemistry A, 2018, 6, 1340-1369.	5.2	149
994	Gel Chemistry. Lecture Notes in Quantum Chemistry II, 2018, , .	0.3	14
995	Large-scale and ultra-low thermal conductivity of ZrO2 fibrofelt/ZrO2-SiO2 aerogels composites for thermal insulation. Ceramics International, 2018, 44, 8742-8748.	2.3	41

#	Article	IF	CITATIONS
996	Transparent, Superflexible Doubly Cross-Linked Polyvinylpolymethylsiloxane Aerogel Superinsulators via Ambient Pressure Drying. ACS Nano, 2018, 12, 521-532.	7.3	211
997	Inorganic Gels. Lecture Notes in Quantum Chemistry II, 2018, , 191-208.	0.3	1
998	Synthesis of novel nanoporous metal-organic gels with tunable porosity and sensing of aromatic compounds. Microporous and Mesoporous Materials, 2018, 264, 112-117.	2.2	5
999	Luminescent alumina-based aerogels modified with tris(8-hydroxyquinolinato)aluminum. Journal of Sol-Gel Science and Technology, 2018, 86, 400-409.	1.1	13
1000	Ultralight and fire-resistant ceramic nanofibrous aerogels with temperature-invariant superelasticity. Science Advances, 2018, 4, eaas8925.	4.7	414
1001	Zirconia-based alumina compound aerogels with enhanced mesopore structure. Ceramics International, 2018, 44, 10579-10584.	2.3	13
1002	Versatile Double-Cross-Linking Approach to Transparent, Machinable, Supercompressible, Highly Bendable Aerogel Thermal Superinsulators. Chemistry of Materials, 2018, 30, 2759-2770.	3.2	130
1003	Robust Nanofibrillated Cellulose Hydro/Aerogels from Benign Solution/Solvent Exchange Treatment. ACS Sustainable Chemistry and Engineering, 2018, 6, 6624-6634.	3.2	41
1004	Preparation of nanocrystalline TiO2 monoliths by using modified supercritical carbon dioxide. Journal of Supercritical Fluids, 2018, 137, 93-100.	1.6	1
1005	Single-Particle Tracking To Probe the Local Environment in Ice-Templated Crosslinked Colloidal Assemblies. Langmuir, 2018, 34, 4603-4613.	1.6	10
1006	Flexible transparent aerogels as window retrofitting films and optical elements with tunable birefringence. Nano Energy, 2018, 48, 266-274.	8.2	63
1007	In-situ synthesis of silica aerogel in polyethylene terephthalate fibre nonwovens and their composite properties on acoustical absorption behavior. Journal of Porous Materials, 2018, 25, 179-187.	1.3	25
1008	Thermal and compression characteristics of aerogel-encapsulated textiles. Journal of Industrial Textiles, 2018, 47, 1998-2013.	1.1	29
1009	Sonochemical synthesis of highly crystalline photocatalyst for industrial applications. Ultrasonics, 2018, 83, 203-213.	2.1	37
1010	A review on aerogel: 3D nanoporous structured fillers in polymerâ€based nanocomposites. Polymer Composites, 2018, 39, 3383-3408.	2.3	83
1011	Rapid fabrication of low density melamine–formaldehyde aerogels. Journal of Porous Materials, 2018, 25, 351-358.	1.3	10
1012	Investigating the cheletropic reaction between sulfur dioxide and butadiene-containing linkers in UiO-66. Canadian Journal of Chemistry, 2018, 96, 139-143.	0.6	5
1013	Synthesis of highly flexible silica aerogels by photoacids generation. Journal of Porous Materials, 2018, 25, 1027-1034.	1.3	3

#	ARTICLE	IF	Citations
1014	In situ measurement of drug transport in porous silica gel. Microporous and Mesoporous Materials, 2018, 260, 17-23.	2.2	4
1015	Ultra-high mechanical properties of porous composites based on regenerated cellulose and cross-linked poly(ethylene glycol). Carbohydrate Polymers, 2018, 179, 244-251.	5.1	20
1016	Amyloid Templated Organic–Inorganic Hybrid Aerogels. Advanced Functional Materials, 2018, 28, 1703609.	7.8	39
1017	Functional nanocomposite wet gels and aerogels induced by transition/lanthanide metal ions coordination. Chemical Engineering Journal, 2018, 331, 597-605.	6.6	17
1018	Carbon aerogel supported palladium-ruthenium nanoparticles for electrochemical sensing and catalytic reduction of food dye. Sensors and Actuators B: Chemical, 2018, 257, 48-59.	4.0	59
1019	An approach for highly transparent titania aerogels preparation. Materials Letters, 2018, 215, 19-22.	1.3	9
1020	Fabrication of nitrogen-doped porous electrically conductive carbon aerogel from waste cabbage for supercapacitors and oil/water separation. Journal of Materials Science: Materials in Electronics, 2018, 29, 4334-4344.	1.1	48
1021	Monolithic aerogel photocatalysts: a review. Journal of Materials Chemistry A, 2018, 6, 754-775.	5.2	152
1022	Superelastic and ultralight polyimide aerogels as thermal insulators and particulate air filters. Journal of Materials Chemistry A, 2018, 6, 828-832.	5. 2	113
1023	Aerogels of hierarchically porous syndiotactic polystyrene with a dielectric constant near to air. Journal of Materials Chemistry C, 2018, 6, 360-368.	2.7	37
1024	Characteristics and parametric analysis of a novel flexible ink-based thermoelectric generator for human body sensor. Energy Conversion and Management, 2018, 156, 655-665.	4.4	55
1025	Ultrafast Nanoscale Polymer Coating on Porous 3D Structures Using Microwave Irradiation. Advanced Functional Materials, 2018, 28, 1704877.	7.8	18
1026	Special Techniques., 2018,, 315-405.		1
1027	A one-step in-situ assembly strategy to construct PEG@MOG-100-Fe shape-stabilized composite phase change material with enhanced storage capacity for thermal energy storage. Chemical Physics Letters, 2018, 695, 99-106.	1.2	23
1028	Mechanical Properties of Metal Oxide Aerogels. Chemistry of Materials, 2018, 30, 145-152.	3.2	49
1029	Facile synthesis of efficient and selective Ti-containing mesoporous silica catalysts for toluene oxidation. Molecular Catalysis, 2018, 444, 34-41.	1.0	19
1030	Hydroxyethyl cellulose/alumina-based aerogels as lightweight insulating materials with high mechanical strength. Journal of Materials Science, 2018, 53, 1556-1567.	1.7	22
1031	Electrochemical performances of supercapacitors from carbon-ZrO2 composites. Electrochimica Acta, 2018, 259, 803-814.	2.6	41

#	Article	IF	CITATIONS
1032	High-performance sportswear., 2018,, 341-356.		16
1033	Review of improvements on heat transfer using nanofluids via corrugated facing step. International Journal of Engineering and Technology(UAE), 2018, 7, 160.	0.2	12
1036	Superhydrophobic and Compressible Silica-polyHIPE Covalently Bonded Porous Networks via Emulsion Templating for Oil Spill Cleanup and Recovery. Scientific Reports, 2018, 8, 16783.	1.6	26
1037	Poly(Urethane-Acrylate) Aerogels via Radical Polymerization of Dendritic Urethane-Acrylate Monomers. Materials, 2018, 11, 2249.	1.3	21
1039	Silica Aerogel Monoliths Derived from Silica Hydrosol with Various Surfactants. Molecules, 2018, 23, 3192.	1.7	7
1040	Aqueous Synthesis of Compressible and Thermally Stable Cellulose Nanofibril–Silica Aerogel for CO ₂ Adsorption. ACS Applied Nano Materials, 2018, 1, 6701-6710.	2.4	40
1041	Surface Modification of Basalt Fibers by Nanostructured Silica Aerogel. Fibers and Polymers, 2018, 19, 1843-1849.	1.1	11
1042	ZnO Nanostructures Based Photoanodes: Potential Applications in Dye Sensitized Solar Cells. , 2018, , .		0
1043	Lightweight foams of amine-rich organosilica and cellulose nanofibrils by foaming and controlled condensation of aminosilane. Materials Chemistry Frontiers, 2018, 2, 2220-2229.	3.2	8
1044	Melamine–formaldehyde aerogel coating for in-tube solid-phase microextraction. Journal of Chromatography A, 2018, 1577, 8-14.	1.8	28
1045	Facile synthesis of nitrogen-doped graphene aerogels for electrochemical detection of dopamine. Solid State Sciences, 2018, 86, 6-11.	1.5	41
1046	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
1047	Fabrication and Testing of Catalytic Aerogels Prepared Via Rapid Supercritical Extraction. Journal of Visualized Experiments, 2018, , .	0.2	3
1048	Facile Synthesis of Cellulose/ZnO Aerogel with Uniform and Tunable Nanoparticles Based on Ionic Liquid and Polyhydric Alcohol. ACS Sustainable Chemistry and Engineering, 2018, 6, 16248-16254.	3.2	14
1049	Review on the Production of Polysaccharide Aerogel Particles. Materials, 2018, 11, 2144.	1.3	181
1050	Development of ultralight nanocellulose magnets using ultrasonic agitation. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 061801.	0.6	0
1051	Dimensionally stable cellulosic aerogels functionalized by titania. Pure and Applied Chemistry, 2018, 90, 1755-1771.	0.9	3
1052	Super-compressible, fatigue resistant and anisotropic carbon aerogels for piezoresistive sensors. Cellulose, 2018, 25, 7329-7340.	2.4	46

#	Article	IF	CITATIONS
1053	Surface energy-driven <i>ex situ</i> hierarchical assembly of low-dimensional nanomaterials on graphene aerogels: a versatile strategy. Journal of Materials Chemistry A, 2018, 6, 18551-18560.	5.2	10
1054	Case study of a green nanoporous material from synthesis to commercialisation: Quartzene®. Current Opinion in Green and Sustainable Chemistry, 2018, 12, 101-109.	3.2	6
1055	Fabrication and properties of lightweight SiOC fiber-based assembly aerogels with hierarchical pore structure. Ceramics International, 2018, 44, 22760-22766.	2.3	13
1056	Hierarchical Porous Carbonized Lotus Seedpods for Highly Efficient Solar Steam Generation. Chemistry of Materials, 2018, 30, 6217-6221.	3.2	204
1057	Block copolymers for designing nanostructured porous coatings. Beilstein Journal of Nanotechnology, 2018, 9, 2332-2344.	1.5	8
1058	Effect of Low-Temperature Heating on the Properties of Graphene Oxide Aerogel. High Energy Chemistry, 2018, 52, 355-359.	0.2	3
1059	Multiwave rheology and dynamic light scattering characterizations for a two-step sol-gel transition of tetraethoxysilane hydrolysis and condensation. Journal of Sol-Gel Science and Technology, 2018, 88, 255-262.	1.1	10
1060	Mechanical Properties and Thermal Conductivity of Aerogel-Incorporated Alkali-Activated Slag Mortars. Advances in Civil Engineering, 2018, 2018, 1-9.	0.4	11
1061	Fabrication of the annular photocatalytic reactor using large-sized freestanding titania-silica monolithic aerogel as the catalyst for degradation of glyphosate. Materials and Design, 2018, 159, 195-200.	3.3	22
1062	Immersion-scanning-tunneling-microscope for long-term variable-temperature experiments at liquid-solid interfaces. Review of Scientific Instruments, 2018, 89, 053707.	0.6	5
1063	Emerging Carbonâ€Nanofiber Aerogels: Chemosynthesis versus Biosynthesis. Angewandte Chemie - International Edition, 2018, 57, 15646-15662.	7.2	92
1064	Kohlenstoffnanofaserâ€Aerogele: Vergleich von Chemosynthese und Biosynthese. Angewandte Chemie, 2018, 130, 15872-15889.	1.6	8
1065	Cellulose Mineralization as a Route for Novel Functional Materials. Advanced Functional Materials, 2018, 28, 1705042.	7.8	50
1066	Lightweight chopped carbon fibre reinforced silica-phenolic resin aerogel nanocomposite: Facile preparation, properties and application to thermal protection. Composites Part A: Applied Science and Manufacturing, 2018, 112, 81-90.	3.8	56
1067	Direct Conversion of Graphene Aerogel into Low-Density Diamond Aerogel Composed of Ultrasmall Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 13193-13198.	1.5	9
1068	Dual Heteroatom-Doped Carbon Monoliths Derived from Catalyst-free Preparation of Porous Polyisocyanurate for Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 9094-9103.	3.2	19
1069	Facile co-precursor sol-gel synthesis of a novel amine-modified silica aerogel for high efficiency carbon dioxide capture. Journal of Colloid and Interface Science, 2018, 530, 412-423.	5.0	51
1070	Superflexible Multifunctional Polyvinylpolydimethylsiloxaneâ€Based Aerogels as Efficient Absorbents, Thermal Superinsulators, and Strain Sensors. Angewandte Chemie, 2018, 130, 9870-9875.	1.6	16

#	Article	IF	CITATIONS
1071	Superflexible Multifunctional Polyvinylpolydimethylsiloxaneâ€Based Aerogels as Efficient Absorbents, Thermal Superinsulators, and Strain Sensors. Angewandte Chemie - International Edition, 2018, 57, 9722-9727.	7.2	108
1072	Aerogels as promising materials for environmental remediation—A broad insight into the environmental pollutants removal through adsorption and (photo)catalytic processes. , 2018, , 389-436.		8
1073	Nanophotonic Heterostructures for Efficient Propulsion and Radiative Cooling of Relativistic Light Sails. Nano Letters, 2018, 18, 5583-5589.	4. 5	50
1074	"Zylon―Aerogels. Macromolecular Materials and Engineering, 2018, 303, 1800229.	1.7	11
1075	Mesoscale self-assembly of reactive monomicelles: General strategy toward phloroglucinol-formaldehyde aerogels with ordered mesoporous structures and enhanced mechanical properties. Journal of Colloid and Interface Science, 2018, 532, 77-82.	5.0	6
1076	Strategies toward catalytic biopolymers: Incorporation of tungsten in alginate aerogels. Polyhedron, 2018, 154, 209-216.	1.0	18
1077	Towards better characterizing thermal conductivity of cement-based materials: The effects of interfacial thermal resistance and inclusion size. Materials and Design, 2018, 157, 105-118.	3.3	29
1078	A novel constitutive model for the mechanical properties of silica aerogels. Journal of Applied Physics, 2018, 124, .	1.1	12
1079	Continuous adjustment of fractal dimension of silica aerogels. Journal of Non-Crystalline Solids, 2018, 499, 159-166.	1,5	14
1080	Hybrid Aerogels. , 2018, , 3317-3338.		1
1081	Nanostructured Oxides Synthesised via scCO2-Assisted Sol-Gel Methods and Their Application in Catalysis. Catalysts, 2018, 8, 212.	1.6	18
1082	Process Variable Optimization in the Manufacture of Resorcinol–Formaldehyde Gel Materials. Gels, 2018, 4, 36.	2.1	17
1083	Cellulose Aerogels: Synthesis, Applications, and Prospects. Polymers, 2018, 10, 623.	2.0	311
1084	Autocatalysis Synthesis of Poly(benzoxazine- <i>co</i> resol)-Based Polymer and Carbon Spheres. Macromolecules, 2018, 51, 5494-5500.	2.2	35
1085	Upscaled Preparation of Trimethylsilylated Chitosan Aerogel. Industrial & Engineering Chemistry Research, 2018, 57, 10421-10430.	1.8	25
1086	Effect of graphene oxide on thermal stability of aerogel bio-nanocomposite from cellulose-based waste biomass. Cellulose, 2018, 25, 5099-5112.	2.4	28
1087	Low shrinkage, mechanically strong polyimide hybrid aerogels containing hollow mesoporous silica nanospheres. Composites Science and Technology, 2018, 165, 355-361.	3.8	35
1088	Wood-inspired multi-channel tubular graphene network for high-performance lithium-sulfur batteries. Carbon, 2018, 139, 522-530.	5.4	24

#	Article	IF	CITATIONS
1089	Asymmetric Aerogel Membranes with Ultrafast Water Permeation for the Separation of Oil-in-Water Emulsion. ACS Applied Materials & Samp; Interfaces, 2018, 10, 26546-26554.	4.0	59
1090	Template-Free Self-Assembly of Fluorine-Free Hydrophobic Polyimide Aerogels with Lotus or Petal Effect. ACS Applied Materials & Samp; Interfaces, 2018, 10, 16901-16910.	4.0	74
1091	Materials challenges for the Starshot lightsail. Nature Materials, 2018, 17, 861-867.	13.3	107
1092	Ultralight Silica Foams with a Hierarchical Pore Structure via a Surfactant-Free High Internal Phase Emulsion Process. Langmuir, 2018, 34, 10381-10388.	1.6	23
1093	Self-Assembled Microporous Peptide-Polysaccharide Aerogels for Oil–Water Separation. Langmuir, 2018, 34, 10732-10738.	1.6	23
1094	Eumelanin Coating of Silica Aerogel by Supercritical Carbon Dioxide Deposition of a 5,6-Dihydroxyindole Thin Film. Materials, 2018, 11, 1494.	1.3	1
1095	Thermal Failure Analysis of Fiber-Reinforced Silica Aerogels under Liquid Nitrogen Thermal Shock. Molecules, 2018, 23, 1522.	1.7	1
1096	Green Synthesis of Ant Nest-Inspired Superelastic Silicone Aerogels. ACS Sustainable Chemistry and Engineering, 2018, 6, 11222-11227.	3.2	22
1097	Freeze-drying method as a new approach to the synthesis of polyurea aerogels from isocyanate and water. Journal of Sol-Gel Science and Technology, 2018, 87, 685-695.	1.1	25
1098	Millimeter-Size Spherical Polyurea Aerogel Beads with Narrow Size Distribution. Gels, 2018, 4, 66.	2.1	20
1099	Scalable, hydrophobic and highly-stretchable poly(isocyanurate–urethane) aerogels. RSC Advances, 2018, 8, 21214-21223.	1.7	26
1100	Multiresponsive Grapheneâ€Aerogelâ€Directed Phaseâ€Change Smart Fibers. Advanced Materials, 2018, 30, e1801754.	11.1	272
1101	Gas templating of resorcinol-formaldehyde xerogels. Journal of Non-Crystalline Solids, 2018, 498, 64-71.	1.5	3
1102	Preparation and characterization of glass fiber/polyimide/SiO2 composite aerogels with high specific surface area. Journal of Materials Science, 2018, 53, 12885-12893.	1.7	28
1103	Novel multifunctional polymethylsilsesquioxane–silk fibroin aerogel hybrids for environmental and thermal insulation applications. Journal of Materials Chemistry A, 2018, 6, 12598-12612.	5.2	130
1104	History of Organic–Inorganic Hybrid Materials: Prehistory, Art, Science, and Advanced Applications. Advanced Functional Materials, 2018, 28, 1704158.	7.8	264
1105	Emerging Hierarchical Aerogels: Selfâ€Assembly of Metal and Semiconductor Nanocrystals. Advanced Materials, 2018, 30, e1707518.	11.1	104
1106	Thermally insulating, fire-retardant, smokeless and flexible polyvinylidene fluoride nanofibers filled with silica aerogels. Chemical Engineering Journal, 2018, 351, 473-481.	6.6	49

#	Article	IF	CITATIONS
1107	Functional Nanoporous Titanium Dioxide for Separation Applications: Synthesis Routes and Properties to Performance Analysis., 2019, , 151-186.		1
1108	Hierarchical Morphology of Poly(ether ether ketone) Aerogels. ACS Applied Materials & Samp; Interfaces, 2019, 11, 31508-31519.	4.0	22
1109	Transparent, mechanically strong, thermally insulating cross-linked silica aerogels for energy-efficient windows. Journal of Sol-Gel Science and Technology, 2019, 92, 84-100.	1.1	34
1110	Nonfreeze-Drying Approach for Anisotropic Compression-Resilient Inorganic Aerogels by Guided Self-Assembly and Controlled Mineralization of Bacterial Cellulose. ACS Sustainable Chemistry and Engineering, 2019, 7, 14591-14600.	3.2	10
1111	Catalytic Methane Decomposition over Bimetallic Transition Metals Supported on Composite Aerogel. Energy & Samp; Fuels, 2019, 33, 9099-9106.	2.5	21
1112	Robust polyimide nano/microfibre aerogels welded by solvent-vapour for environmental applications. Royal Society Open Science, 2019, 6, 190596.	1.1	21
1113	Electroassembly of Chitin Nanoparticles to Construct Freestanding Hydrogels and High Porous Aerogels for Wound Healing. ACS Applied Materials & Samp; Interfaces, 2019, 11, 34766-34776.	4.0	46
1114	Application and Perspectives., 2019,, 207-237.		0
1115	Recent progress in metal-organic frameworks-based hydrogels and aerogels and their applications. Coordination Chemistry Reviews, 2019, 398, 213016.	9.5	414
1116	Transition Metal lons Assisted Trimerization of Polyisocyanurate and Their Pyrolyzed Derivatives as Synergistic Electrocatalysts for Oxidation of Alcohols. ACS Sustainable Chemistry and Engineering, 2019, 7, 15197-15210.	3.2	10
1117	Ambient-dried highly flexible copolymer aerogels and their nanocomposites with polypyrrole for thermal insulation, separation, and pressure sensing. Polymer Chemistry, 2019, 10, 4980-4990.	1.9	21
1118	Nanostructure of Aerogels and Their Applications in Thermal Energy Insulation. ACS Applied Energy Materials, 2019, 2, 5319-5349.	2.5	71
1119	Cellulose nanofibrils prepared by gentle drying methods reveal the limits of helium ion microscopy imaging. RSC Advances, 2019, 9, 15668-15677.	1.7	15
1120	Mechanical and thermal insulation properties of isocyanate crosslinked resorcinol formaldehyde aerogel: Effect of isocyanate structure. Journal of Applied Polymer Science, 2019, 136, 48196.	1.3	6
1121	Layered double hydroxide based active corrosion protective sealing of plasma electrolytic oxidation/sol-gel composite coating on AA2024. Applied Surface Science, 2019, 494, 829-840.	3.1	52
1122	Hierarchical Metal–Organic Frameworks with Macroporosity: Synthesis, Achievements, and Challenges. Nano-Micro Letters, 2019, 11, 54.	14.4	87
1123	Flexible and recoverable SiC nanofiber aerogels for electromagnetic wave absorption. Ceramics International, 2019, 45, 22793-22801.	2.3	77
1124	Hybrid materials based on graphene derivatives and porphyrin metal-organic frameworks. Russian Chemical Reviews, 2019, 88, 775-799.	2.5	26

#	Article	IF	CITATIONS
1125	Mechanical strengths and thermal properties of titania-doped alumina aerogels and the application as high-temperature thermal insulator. Journal of Sol-Gel Science and Technology, 2019, 91, 514-522.	1.1	25
1126	Porous Cu _{<i>x</i>} Co _{<i>y</i>} S Supraparticles for Inâ€Vivo Telomerase Imaging and Reactive Oxygen Species Generation. Angewandte Chemie - International Edition, 2019, 58, 19067-19072.	7.2	14
1127	Load Transfer Behavior of 3D Aerogels Fabricated with Halloysite Nanotubes. Macromolecular Materials and Engineering, 2019, 304, 1900432.	1.7	7
1128	Surface Science Engineering through Sol-Gel Process. , 0, , .		12
1129	Applications of functionalized polyethylene terephthalate aerogels from plastic bottle waste. Waste Management, 2019, 100, 296-305.	3.7	34
1130	Solid-State Gelation for Nanostructured Perovskite Oxide Aerogels. Chemistry of Materials, 2019, 31, 9422-9429.	3.2	17
1131	3D Porous Graphene Based Aerogel for Electromagnetic Applications. Scientific Reports, 2019, 9, 15719.	1.6	25
1132	Towards thermally stable aerogel photocatalysts: TiCl4-based sol-gel routes for the design of nanostructured silica-titania aerogel with high photocatalytic activity and outstanding thermal stability. Journal of Environmental Chemical Engineering, 2019, 7, 103425.	3.3	31
1133	Polyethylene Aerogels with Combined Physical and Chemical Crosslinking: Improved Mechanical Resilience and Shapeâ€Memory Properties. Angewandte Chemie - International Edition, 2019, 58, 15883-15889.	7.2	24
1134	Polyethylene Aerogels with Combined Physical and Chemical Crosslinking: Improved Mechanical Resilience and Shapeâ€Memory Properties. Angewandte Chemie, 2019, 131, 16030-16036.	1.6	3
1135	Development of magnetically separable mesoporous N doped TiO ₂ -SiO ₂ coated Fe ₃ O ₄ nanomaterial as solar photocatalyst for environmental application. Materials Research Express, 2019, 6, 105544.	0.8	2
1136	Biomass and Industrial Wastes as Resource Materials for Aerogel Preparation: Opportunities, Challenges, and Research Directions. Industrial & Engineering Chemistry Research, 2019, 58, 17621-17645.	1.8	56
1137	Experimental deconvolution of depressurization from capillary shrinkage during drying of silica wet-gels with SCF CO2 why aerogels shrink?. Journal of Sol-Gel Science and Technology, 2019, 92, 662-680.	1.1	16
1138	Enhancement of transient thermal stability and flame retardancy of hydrophobic silica xerogel composites via carbon family material doping. Journal of Asian Ceramic Societies, 2019, 7, 449-459.	1.0	2
1139	Preparation of reduced graphene oxide macro body and its electrochemical energy storage performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 582, 123859.	2.3	4
1140	Nanofibrous Kevlar Aerogel Films and Their Phase-Change Composites for Highly Efficient Infrared Stealth. ACS Nano, 2019, 13, 2236-2245.	7.3	136
1141	Thermal behavior of silica aerogel/PMMA composite reinforced by non-covalent interaction. Emerging Materials Research, 2019, 8, 55-61.	0.4	5
1142	Enhanced Photothermal Effect in Ultralow-Density Carbon Aerogels with Microporous Structures for Facile Optical Ignition Applications. ACS Applied Materials & Samp; Interfaces, 2019, 11, 7250-7260.	4.0	14

#	Article	IF	CITATIONS
1143	Morphology-controlled synthesis of microencapsulated phase change materials with TiO2 shell for thermal energy harvesting and temperature regulation. Energy, 2019, 172, 599-617.	4.5	80
1144	Facile synthesis of porous hybrid materials based on Calix-3 dye and TiO ₂ for high photocatalytic water splitting performance with excellent stability. Journal of Materials Chemistry A, 2019, 7, 2993-2999.	5.2	27
1145	Thermal insulation behavior of functionally graded aerogel: The role of novolac molecular-weight. Polymer, 2019, 178, 121575.	1.8	19
1146	Three-Dimensional Graphene Oxide Skeleton Guided Poly(acrylic Acid) Composite Hydrogel Particles with Hierarchical Pore Structure for Hemoperfusion. ACS Biomaterials Science and Engineering, 2019, 5, 3987-4001.	2.6	16
1147	Advanced fabrication and multi-properties of rubber aerogels from car tire waste. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 577, 702-708.	2.3	50
1148	Post-modification of Cellulose Nanocrystal Aerogels with Thiol–Ene Click Chemistry. Biomacromolecules, 2019, 20, 2779-2785.	2.6	28
1149	Preparation and characterization of highly hydrophobic fluorinated polyimide aerogels cross-linked with 2,2 \hat{a} \in 2,7,7 \hat{a} \in 2-Tetraamino- 9,9 \hat{a} \in 2-spirobifluorene. Polymer, 2019, 179, 121605.	1.8	11
1150	Multi-scale mathematical model of mass transference phenomena inside monolithic carbon aerogels. Heat and Mass Transfer, 2019, 55, 3317-3325.	1.2	4
1151	Linear and crosslinked polyimide aerogels: synthesis and characterization. Journal of Materials Research and Technology, 2019, 8, 2638-2648.	2.6	35
1152	Water-glass based silica aerogel: unique nanostructured filler for epoxy nanocomposites. Journal of Porous Materials, 2019, 26, 1755-1765.	1.3	17
1153	Facile Fabrication of Flexible, Robust, and Superhydrophobic Hybrid Aerogel. Langmuir, 2019, 35, 8692-8698.	1.6	22
1154	On controlling aerogel microstructure by freeze casting. Composites Part B: Engineering, 2019, 173, 107036.	5.9	56
1155	A Novel Highly Porous Cellulosic Aerogel Regenerated by Solvent Exchange Mechanism. Journal of Polymers and the Environment, 2019, 27, 1801-1806.	2.4	2
1156	Structure to properties relations of BPDA and PMDA backbone hybrid diamine polyimide aerogels. Polymer, 2019, 176, 213-226.	1.8	54
1157	Self-floating aerogel composed of carbon nanotubes and ultralong hydroxyapatite nanowires for highly efficient solar energy-assisted water purification. Carbon, 2019, 150, 233-243.	5.4	85
1158	Super-insulating, flame-retardant, and flexible poly(dimethylsiloxane) composites based on silica aerogel. Composites Part A: Applied Science and Manufacturing, 2019, 123, 108-113.	3.8	48
1159	Metal–Organic Gels Based on a Bisamide Tetracarboxyl Ligand for Carbon Dioxide, Sulfur Dioxide, and Selective Dye Uptake. ACS Applied Materials & Selective Dye Uptake.	4.0	32
1160	Thermal and Mechanical Properties of SiO2 Aerogel–Incorporated Geopolymer Insulation Materials. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	7

#	Article	IF	Citations
1161	Synthetic Polymer Aerogels in Particulate Form. Materials, 2019, 12, 1543.	1.3	31
1162	Confined Interfacial Monomicelle Assembly for Precisely Controlled Coating of Single-Layered Titania Mesopores. Matter, 2019, 1, 527-538.	5.0	80
1163	Transparent aerogel-like diamond nanofilms from glassy carbon by high pressure and high temperature. Diamond and Related Materials, 2019, 96, 90-96.	1.8	6
1164	Lightweight, Flexible, Thermally-Stable, and Thermally-Insulating Aerogels Derived from Cotton Nanofibrillated Cellulose. ACS Sustainable Chemistry and Engineering, 2019, 7, 9202-9210.	3.2	52
1165	Economic assessment of the production of subcritically dried silica-based aerogels. Journal of Non-Crystalline Solids, 2019, 516, 26-34.	1.5	33
1166	Relation between Microstructure and Flexibility of Doubly Cross-Linked Organic–Inorganic Aerogels. ACS Applied Polymer Materials, 2019, 1, 1136-1147.	2.0	5
1167	Effects of heat exposure on the properties and structure of aerogels for protective clothing applications. Microporous and Mesoporous Materials, 2019, 285, 43-55.	2.2	15
1168	N-Doped Carbon Aerogels Obtained from APMP Fiber Aerogels Saturated with Rhodamine Dye and Their Application as Supercapacitor Electrodes. Applied Sciences (Switzerland), 2019, 9, 618.	1.3	12
1169	Design of Aerogels, Cryogels and Xerogels of Alginate: Effect of Molecular Weight, Gelation Conditions and Drying Method on Particles' Micromeritics. Molecules, 2019, 24, 1049.	1.7	54
1170	Carbon Aerogel for Insulation Applications: A Review. International Journal of Thermophysics, 2019, 40, 1.	1.0	78
1171	Superhydrophobic Silica Aerogels Encapsulated Fluorescent Perovskite Quantum Dots for Reversible Sensing of SO ₂ in a 3D-Printed Gas Cell. Analytical Chemistry, 2019, 91, 5058-5066.	3.2	51
1172	Dual modification of silica aerogel monoliths. Journal of Sol-Gel Science and Technology, 2019, 90, 323-329.	1.1	4
1173	<i>K</i> -Index: A Descriptor, Predictor, and Correlator of Complex Nanomorphology to Other Material Properties. ACS Nano, 2019, 13, 3677-3690.	7.3	29
1174	Sterile and Dual-Porous Aerogels Scaffolds Obtained through a Multistep Supercritical CO2-Based Approach. Molecules, 2019, 24, 871.	1.7	38
1175	Thermal conductivity of polyvinylpolymethylsiloxane aerogels with high specific surface area. RSC Advances, 2019, 9, 7833-7841.	1.7	15
1176	Boron Nitride Aerogels with Superâ€Flexibility Ranging from Liquid Nitrogen Temperature to 1000 °C. Advanced Functional Materials, 2019, 29, 1900188.	7.8	97
1177	Formation of Nanofibrous Structure in Biopolymer Aerogel during Supercritical CO ₂ Processing: The Case of Chitosan Aerogel. Biomacromolecules, 2019, 20, 2051-2057.	2.6	42
1178	Mass transport through dislocation network in solid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mpresol></mml:mpresol><mml:none></mml:none><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math> . Physical Review B, 2019, 99, .	criputs	15

#	Article	IF	CITATIONS
1179	Functional nanocomposite aerogels based on nanocrystalline cellulose for selective oil/water separation and antibacterial applications. Chemical Engineering Journal, 2019, 371, 306-313.	6.6	84
1180	Electrospun Nanofiber Membranes Incorporating PDMS-Aerogel Superhydrophobic Coating with Enhanced Flux and Improved Antiwettability in Membrane Distillation. Environmental Science & Emp; Technology, 2019, 53, 4948-4958.	4.6	103
1181	The role of aerogel-based sorbents in microextraction techniques. Microchemical Journal, 2019, 147, 948-954.	2.3	29
1182	A facile ionic liquid approach to prepare cellulose-rich aerogels directly from corn stalks. Green Chemistry, 2019, 21, 2699-2708.	4.6	32
1183	The effect of graphene-nanoplatelets on gelation and structural integrity of a polyvinyltrimethoxysilane-based aerogel. RSC Advances, 2019, 9, 11503-11520.	1.7	39
1184	Resilient Si ₃ N ₄ Nanobelt Aerogel as Fire-Resistant and Electromagnetic Wave-Transparent Thermal Insulator. ACS Applied Materials & Interfaces, 2019, 11, 15795-15803.	4.0	138
1185	Aerogel-based materials for adsorbent applications in material domains. E3S Web of Conferences, 2019, 90, 01003.	0.2	11
1187	Elevating low-emissivity film for lower thermal transmittance. Energy and Buildings, 2019, 193, 69-77.	3.1	25
1188	Reducing the flammability of hydrophobic silica aerogels by doping with hydroxides. Journal of Hazardous Materials, 2019, 373, 536-546.	6.5	30
1189	Fiber Reinforced Polyimide Aerogel Composites with High Mechanical Strength for High Temperature Insulation. Macromolecular Materials and Engineering, 2019, 304, 1800676.	1.7	36
1190	Influence of Structure-Directing Additives on the Properties of Poly(methylsilsesquioxane) Aerogel-Like Materials. Gels, 2019, 5, 6.	2.1	11
1191	Tailoring structure and properties of silica aerogels by varying the content of the Tetramethoxysilane added in batches. Microporous and Mesoporous Materials, 2019, 280, 20-25.	2.2	9
1192	Nanoporous materials., 2019, , 311-353.		17
1193	Fume silica improves the insulating and mechanical performance of silica aerogel/glass fiber composite. Journal of Supercritical Fluids, 2019, 148, 9-15.	1.6	22
1194	Mussel-inspired approach to cross-linked functional 3D nanofibrous aerogels for energy-efficient filtration of ultrafine airborne particles. Applied Surface Science, 2019, 479, 700-708.	3.1	28
1195	Current status, opportunities, and challenges in fuel cell catalytic application of aerogels. International Journal of Energy Research, 2019, 43, 2447-2467.	2.2	28
1196	Poly(urethane-acrylate) aerogels from the isocyanurate trimer of isophorone diisocyanate. Journal of Supercritical Fluids, 2019, 148, 42-54.	1.6	13
1197	"Stiff–Soft―Binary Synergistic Aerogels with Superflexibility and High Thermal Insulation Performance. Advanced Functional Materials, 2019, 29, 1806407.	7.8	111

#	Article	IF	CITATIONS
1198	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	6.0	429
1199	Synthesis of Ag doped SiO2-TiO2 aerogels with nano-sized microcrystalline anatase structure through IL control. IOP Conference Series: Materials Science and Engineering, 2019, 587, 012016.	0.3	1
1200	Introduction to Hybrid Sol-Gel Materials. World Scientific Series in Nanoscience and Nanotechnology, 2019, , 1-36.	0.1	2
1201	Silica aerogel composites with embedded fibres: a review on their preparation, properties and applications. Journal of Materials Chemistry A, 2019, 7, 22768-22802.	5.2	208
1202	Tailoring the surface area and the acid–base properties of ZrO2 for biodiesel production from Nannochloropsis sp Scientific Reports, 2019, 9, 16223.	1.6	37
1203	2020 roadmap on pore materials for energy and environmental applications. Chinese Chemical Letters, 2019, 30, 2110-2122.	4.8	75
1204	A novel and green nanoparticle formation approach to forming low-crystallinity curcumin nanoparticles to improve curcumin's bioaccessibility. Scientific Reports, 2019, 9, 19112.	1.6	62
1205	Graphene oxide enhanced polyacrylamide-alginate aerogels catalysts. Carbohydrate Polymers, 2019, 203, 19-25.	5.1	45
1206	From random glass networks to random silica gel networks and their use as host for biocatalytic applications. Journal of Sol-Gel Science and Technology, 2019, 90, 172-186.	1,1	8
1207	Catalytic Performance and Reproducibility of Ni/Al ₂ O ₃ and Co/Al ₂ O ₃ Mesoporous Aerogel Catalysts for Methane Decomposition. Industrial & Decomposition & Decomposit	1.8	30
1208	TiO2-alginate composite aerogels as novel oil/water separation and wastewater remediation filters. Composites Part B: Engineering, 2019, 160, 480-487.	5.9	83
1209	Deep Eutectic Solvent Assisted Facile Synthesis of Lignin-Based Cryogel. Macromolecules, 2019, 52, 227-235.	2.2	17
1210	Resorcinol-formaldehyde based carbon aerogel: Preparation, structure and applications in energy storage devices. Microporous and Mesoporous Materials, 2019, 279, 293-315.	2.2	78
1211	Flexible and coatable insulating silica aerogel/polyurethane composites via soft segment control. Composites Science and Technology, 2019, 171, 244-251.	3.8	35
1212	A novel SiC nanowire aerogel consisted of ultra long SiC nanowires. Materials Research Express, 2019, 6, 045030.	0.8	14
1213	Multifunctional Organic–Inorganic Hybrid Aerogel for Self leaning, Heatâ€Insulating, and Highly Efficient Microwave Absorbing Material. Advanced Functional Materials, 2019, 29, 1807624.	7.8	458
1214	Hydrophilic and hydrophobic pores in reduced graphene oxide aerogel. Journal of Porous Materials, 2019, 26, 1111-1119.	1.3	16
1215	Facile synthesis and thermal properties of waterglass-based silica xerogel nanocomposites containing reduced graphene oxide. Ceramics International, 2019, 45, 4201-4207.	2.3	11

#	Article	IF	Citations
1216	Silica aerogel derived from rice husk: an aggregate replacer for lightweight and thermally insulating cement-based composites. Construction and Building Materials, 2019, 195, 312-322.	3.2	57
1217	Functional nanocomposites from sustainable regenerated cellulose aerogels: A review. Chemical Engineering Journal, 2019, 359, 459-475.	6.6	177
1218	Bioaerogels: Synthesis approaches, cellular uptake, and the biomedical applications. Biomedicine and Pharmacotherapy, 2019, 111, 964-975.	2.5	63
1219	Synthesis and physicochemical characterization of silica aerogels by rapid seed growth method. Ceramics International, 2019, 45, 7071-7076.	2.3	13
1220	Elastic superhydrophobic and water glass-based silica aerogels and applications. Journal of Sol-Gel Science and Technology, 2019, 90, 28-54.	1.1	13
1221	Hollowâ€Structured Materials for Thermal Insulation. Advanced Materials, 2019, 31, e1801001.	11.1	197
1222	Dimensionally Stable Cellulose Aerogel Strengthened by Polyurethane Synthesized In Situ. Macromolecular Chemistry and Physics, 2019, 220, 1800372.	1.1	10
1223	Promoting Electrocatalysis upon Aerogels. Advanced Materials, 2019, 31, e1804881.	11.1	146
1224	Synthesis and applications of nano-TiO2: a review. Environmental Science and Pollution Research, 2019, 26, 3262-3291.	2.7	237
1225	Porous aerogel and core/shell nanoparticles for controlled drug delivery: A review. Materials Science and Engineering C, 2019, 96, 915-940.	3.8	107
1226	Fabrication of Al2O3 aerogel-SiO2 fiber composite with enhanced thermal insulation and high heat resistance. Journal of Porous Materials, 2019, 26, 1027-1034.	1.3	45
1227	Development of cellulose based aerogel utilizing waste denimâ€"A Morphology study. Carbohydrate Polymers, 2019, 205, 1-7.	5.1	26
1228	Vancomycin-loaded chitosan aerogel particles for chronic wound applications. Carbohydrate Polymers, 2019, 204, 223-231.	5.1	136
1229	Opacifier embedded and fiber reinforced alumina-based aerogel composites for ultra-high temperature thermal insulation. Ceramics International, 2019, 45, 644-650.	2.3	70
1230	Theoretical investigation of heat transfer in structurally graded silica aerogels with pores diameter changing. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1713-1721.	2.0	10
1231	Enhancing the Bioaccessibility of Phytosterols Using Nanoporous Corn and Wheat Starch Bioaerogels. European Journal of Lipid Science and Technology, 2019, 121, 1700229.	1.0	26
1232	Preparation of Nano-TiO2/Diatomite Composites by Non-hydrolytic Sol–Gel Process and its Application in Photocatalytic Degradation of Crystal Violet. Silicon, 2020, 12, 927-935.	1.8	24
1233	Graphene for Energy Storage and Conversion: Synthesis and Interdisciplinary Applications. Electrochemical Energy Reviews, 2020, 3, 395-430.	13.1	59

#	Article	IF	CITATIONS
1234	Vertically aligned Juneus effusus fibril composites for omnidirectional solar evaporation. Carbon, 2020, 156, 225-233.	5.4	54
1235	lota-carrageenan based magnetic aerogels as an efficient adsorbent for heavy metals from aqueous solutions. Journal of Porous Materials, 2020, 27, 277-284.	1.3	22
1236	Folliculitis decalvansâ€like pustular plaques on the limbs sparing the scalp. Australasian Journal of Dermatology, 2020, 61, 54-56.	0.4	6
1237	Fe ₃ O ₄ @rGO hybrids intercalated nanocelluloseâ€based aerogels for enhanced ferromagnetic and mechanical properties. Journal of Applied Polymer Science, 2020, 137, 48564.	1.3	8
1238	Electrochemical and theoretical study of novel functional porous graphene aerogel-supported Sm2O3 nanoparticles for supercapacitor applications. Journal of Solid State Electrochemistry, 2020, 24, 571-582.	1.2	16
1239	Advances in precursor system for silica-based aerogel production toward improved mechanical properties, customized morphology, and multifunctionality: A review. Advances in Colloid and Interface Science, 2020, 276, 102101.	7.0	99
1240	Hydrogels for Medical and Environmental Applications. Small Methods, 2020, 4, 1900735.	4.6	71
1241	Novel protein-based bio-aerogels derived from canola seed meal. Journal of Materials Science, 2020, 55, 4848-4863.	1.7	12
1242	Calcination of ytterbia aerogels leads to ferromagnetic nanoporous ytterbium oxide networks. Materials Letters, 2020, 261, 126866.	1.3	3
1243	Dioxybenzene-bridged hydrophobic silica aerogels with enhanced textural and mechanical properties. Microporous and Mesoporous Materials, 2020, 294, 109863.	2.2	21
1244	Gel–Emulsionâ€Templated Polymeric Aerogels for Water Treatment by Organic Liquid Removal and Solar Vapor Generation. ChemSusChem, 2020, 13, 749-755.	3.6	25
1245	Nitrogen, Phosphorus Co-doped Carbon Obtained from Amino Acid Based Resin Xerogel as Efficient Electrode for Supercapacitor. ACS Applied Energy Materials, 2020, 3, 957-969.	2.5	54
1246	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. ACS Nano, 2020, 14, 595-602.	7.3	104
1247	A polyvinylidene fluoride (PVDF)–silica aerogel (SiAG) insulating membrane for improvement of thermal efficiency during membrane distillation. Journal of Membrane Science, 2020, 597, 117632.	4.1	9
1248	Aerobijels: Ultralight Carbon Monoliths from Cocontinuous Emulsions. Advanced Functional Materials, 2020, 30, 1908383.	7.8	6
1249	Synthesis of novel MTF aerogels with adsorption performance. Journal of Sol-Gel Science and Technology, 2020, 94, 582-595.	1.1	2
1250	Multifunctional Aramid Nanofiber/Carbon Nanotube Hybrid Aerogel Films. ACS Nano, 2020, 14, 688-697.	7.3	298
1251	Cellulose Silica Hybrid Nanofiber Aerogels: From Sol–Gel Electrospun Nanofibers to Multifunctional Aerogels. Advanced Functional Materials, 2020, 30, 1907359.	7.8	101

#	Article	IF	CITATIONS
1252	Facile synthesis of silica aerogel composites via ambient-pressure drying without surface modification or solvent exchange. Vacuum, 2020, 173, 109117.	1.6	26
1253	Thermal behavior of alkali-activated fly ash/slag with the addition of an aerogel as an aggregate replacement. Cement and Concrete Composites, 2020, 106, 103462.	4.6	33
1254	A Hierarchical Mesoporous Insulation Ceramic. Nano Letters, 2020, 20, 1110-1116.	4.5	38
1255	Self-reinforcement of Light, Temperature-Resistant Silica Nanofibrous Aerogels with Tunable Mechanical Properties. Advanced Fiber Materials, 2020, 2, 338-347.	7.9	58
1256	Hierarchically Structured M13 Phage Aerogel for Enhanced Soundâ€Absorption. Macromolecular Materials and Engineering, 2020, 305, 2000452.	1.7	5
1257	Synthesis of silica aerogel particles and its application to thermal insulation paint. Korean Journal of Chemical Engineering, 2020, 37, 1803-1809.	1.2	15
1258	Facile Fabrication of Mechanically Strong and Thermal Resistant Polyimide Aerogels with an Excess of Cross-Linker. Journal of Materials Research and Technology, 2020, 9, 10719-10731.	2.6	14
1259	Nanoporous Boron Nitride Aerogel Film and Its Smart Composite with Phase Change Materials. ACS Nano, 2020, 14, 16590-16599.	7.3	178
1260	Converting waste textiles into highly effective sorbent materials. RSC Advances, 2020, 10, 37596-37599.	1.7	4
1261	Flexible, Strong, Multifunctional Graphene Oxide/Silica-Based Composite Aerogels via a Double-Cross-Linked Network Approach. ACS Applied Materials & Samp; Interfaces, 2020, 12, 47854-47864.	4.0	26
1262	Nanostructured boron nitride–based materials: synthesis and applications. Materials Today Advances, 2020, 8, 100107.	2.5	46
1263	Study on the preparation of the hierarchical porous CX-TiO2 composites and their selective degradation of PHE solubilized in soil washing eluent. Chemosphere, 2020, 260, 127588." Research progress of Na <mm:math xmins:mmi='http://www.w3.org/1998/Math/MathML"</td'><td>4.2</td><td>4</td></mm:math>	4.2	4
1264	display="inline" id="d1e615" altimg="si1.svg"> <mml:msub><mml:mrow< td=""><td>2.5</td><td>9</td></mml:mrow<></mml:msub>	2.5	9
1265	/> <mml:mrow><mml:mn>4</mml:mn></mml:mrow> (M = Fe, Mn, Co and Ni) Enhancing the optical transparency of TiO2 aerogels with high surface area through water-based synthesis. Optical Materials, 2020, 109, 110359.	1.7	17
1266	Thermal shrinkage and heat capacity of monolithic polymeric physical aerogels. Polymer, 2020, 210, 123073.	1.8	4
1267	Synthesis of a Crystalline and Transparent Aerogel Composed of Ni–Al Layered Double Hydroxide Nanoparticles through Crystallization from Amorphous Hydrogel. Langmuir, 2020, 36, 9436-9442.	1.6	7
1268	Engineering a Biopolymer-Based Ultrafast Permeable Aerogel Membrane Decorated with Task-Specific Feâ€"Al Nanocomposites for Robust Water Purification. ACS Applied Bio Materials, 2020, 3, 5233-5243.	2.3	21
1269	Hydrothermal Synthesis and Electrochemical Characterization of Hexagonal Zr-CuS Nanocomposite and its Charge Storage Capacity. Asian Journal of Chemistry, 2020, 32, 1635-1641.	0.1	1

#	Article	IF	CITATIONS
1270	Reduced thermal conductivity of nanoparticle packed bed by hybrid design. International Journal of Heat and Mass Transfer, 2020, 162, 120340.	2.5	1
1271	Solvent Vapor Strengthened Polyimide Nanofiber-Based Aerogels with High Resilience and Controllable Porous Structure. ACS Applied Materials & Samp; Interfaces, 2020, 12, 53104-53114.	4.0	18
1272	Preparation and Electrocatalysis Application of Pure Metallic Aerogel: A Review. Catalysts, 2020, 10, 1376.	1.6	13
1273	Highly Compressible, Thermally Stable, Light-Weight, and Robust Aramid Nanofibers/Ti ₃ AlC ₂ MXene Composite Aerogel for Sensitive Pressure Sensor. ACS Nano, 2020, 14, 10633-10647.	7.3	261
1274	Supply Chain of Waste Cotton Recycling and Reuse: A Review. AATCC Journal of Research, 2020, 7, 19-31.	0.3	40
1275	Linear correlation between specific surface and grafting density of tunable aerogels of microfibrillated cellulose from different origins. Cellulose, 2020, 27, 7979-7995.	2.4	0
1276	Controllable preparation and functionally graded programming of carbon aerogel. Pigment and Resin Technology, 2020, ahead-of-print, .	0.5	0
1277	Flame retardant polyurethane sponge/MTMS aerogel composites with improved mechanical properties under ambient pressure drying. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	11
1278	High thermal stability of SiO2–ZrO2 aerogels using solvent-thermal aging. Journal of Solid State Chemistry, 2020, 291, 121624.	1.4	19
1279	Optimization of a doped sol–gel glass with a nanoporous structure as a chemical sensor for the determination of cobalt(ii): analysis of food, pharmaceutical and biological samples. New Journal of Chemistry, 2020, 44, 14358-14366.	1.4	1
1280	Novel approach of silica-PVA hybrid aerogel synthesis by simultaneous sol-gel process and phase separation. Journal of Supercritical Fluids, 2020, 166, 104997.	1.6	24
1281	Nanoporous Aerogels for Defense and Aerospace Applications. , 2020, , 121-163.		3
1282	Alginate-Based Platforms for Cancer-Targeted Drug Delivery. BioMed Research International, 2020, 2020, 1-17.	0.9	41
1283	Transport Properties of Electro-Sprayed Polytetrafluoroethylene Fibrous Layer Filled with Aerogels/Phase Change Materials. Nanomaterials, 2020, 10, 2042.	1.9	6
1284	Ultrastrong, Superelastic, and Lamellar Multiarch Structured ZrO ₂ –Al ₂ O ₃ Nanofibrous Aerogels with High-Temperature Resistance over 1300 °C. ACS Nano, 2020, 14, 15616-15625.	7.3	131
1285	Structural, out-gassing and nanomechanical properties of super-hydrophobic transparent silica aerogels developed by ambient pressure drying for space application. Bulletin of Materials Science, 2020, 43, 1.	0.8	3
1286	Aerogels Based on Reduced Graphene Oxide/Cellulose Composites: Preparation and Vapour Sensing Abilities. Nanomaterials, 2020, 10, 1729.	1.9	9
1287	Polymeric hybrid aerogels and their biomedical applications. Soft Matter, 2020, 16, 9160-9175.	1.2	50

#	Article	IF	CITATIONS
1288	Robust Bifunctional Compressed Carbon Foam for Highly Effective Oil/Water Emulsion Separation. ACS Applied Materials & Samp; Interfaces, 2020, 12, 44952-44960.	4.0	43
1289	Chitosan-Reinforced MFC/NFC Aerogel and Antibacterial Property. Advances in Polymer Technology, 2020, 2020, 1-9.	0.8	6
1290	Enzyme Scaffolds with Hierarchically Defined Properties via 3D Jet Writing. Macromolecular Bioscience, 2020, 20, e2000154.	2.1	14
1291	Estimation of the Surface Free Energy of Hydrophobic Monolithic Silica Aerogels. Macromolecular Symposia, 2020, 392, 2000113.	0.4	1
1292	Hierarchically Structured Zeolites: From Design to Application. Chemical Reviews, 2020, 120, 11194-11294.	23.0	328
1293	Reaction-Spun Transparent Silica Aerogel Fibers. ACS Nano, 2020, 14, 11919-11928.	7.3	90
1294	1000 at 1000: the lightest bakelite and beyond. Journal of Materials Science, 2020, 55, 15637-15642.	1.7	1
1295	Low cost and scalable method for modifying surfaces of hollow particles from hydrophilic to hydrophobic. RSC Advances, 2020, 10, 31065-31069.	1.7	2
1296	Gel Electrocatalysts: An Emerging Material Platform for Electrochemical Energy Conversion. Advanced Materials, 2020, 32, e2003191.	11.1	78
1297	Eco-Friendly Synthesis of Water-Glass-Based Silica Aerogels via Catechol-Based Modifier. Nanomaterials, 2020, 10, 2406.	1.9	6
1298	Organic Aerogels Based on Epoxy Resins: Synthesis and Properties. Key Engineering Materials, 0, 869, 240-245.	0.4	0
1299	Experimental and Simulation Studies of Platinum-Free Counter Electrode Material for Titania Aerogel-Based Quasi-Solid Dye-Sensitized Solar Cell. IEEE Journal of Photovoltaics, 2020, 10, 1757-1761.	1.5	5
1300	Online Monitoring of Adsorption onto Silica Xerogels and Aerogels from Supercritical Solutions Using Supercritical Fluid Chromatography. Russian Journal of Inorganic Chemistry, 2020, 65, 1577-1584.	0.3	9
1301	New Trends in Bio-Based Aerogels. Pharmaceutics, 2020, 12, 449.	2.0	103
1302	Biomass@MOF-Derived Carbon Aerogels with a Hierarchically Structured Surface for Treating Organic Pollutants. Industrial & Engineering Chemistry Research, 2020, 59, 17529-17536.	1.8	29
1303	Flexible Polyimide Aerogels Derived from the Use of a Neopentyl Spacer in the Backbone. ACS Applied Polymer Materials, 2020, 2, 2179-2189.	2.0	36
1304	A General Approach to Shaped MOF ontaining Aerogels toward Practical Water Treatment Application. Advanced Sustainable Systems, 2020, 4, 2000060.	2.7	43
1305	Enhanced electrochemical performance of graphene aerogels by using combined reducing agents based on mild chemical reduction method. Ceramics International, 2020, 46, 22197-22207.	2.3	18

#	ARTICLE	IF	CITATIONS
1306	Silica aerogels with tailored chemical functionality. Materials and Design, 2020, 193, 108833.	3.3	53
1307	Preparation, Characterization, and In Vitro Evaluation of Resveratrol-Loaded Cellulose Aerogel. Materials, 2020, 13, 1624.	1.3	17
1308	Gaseous Iodine Sorbents: A Comparison between Ag-Loaded Aerogel and Xerogel Scaffolds. ACS Applied Materials & Samp; Interfaces, 2020, 12, 26127-26136.	4.0	38
1309	Fabrication of TiO2-coated ZrO2 fibers for heat radiative applications. Materials Chemistry and Physics, 2020, 251, 123111.	2.0	8
1310	Ultralight Aerogels with Hierarchical Porous Structures Prepared from Cellulose Nanocrystal Stabilized Pickering High Internal Phase Emulsions. Langmuir, 2020, 36, 6421-6428.	1.6	43
1311	Preparation and researching the properties of organic aerogels based on epoxy resins. IOP Conference Series: Materials Science and Engineering, 2020, 848, 012097.	0.3	0
1312	Ultralight Magnetic Nanofibrous GdPO ₄ Aerogel. ACS Omega, 2020, 5, 14180-14185.	1.6	9
1313	Solvents, CO2 and biopolymers: Structure formation in chitosan aerogel. Carbohydrate Polymers, 2020, 247, 116680.	5.1	17
1314	Synergistic effects of silica aerogels/xerogels on properties of polymer composites: A review. Journal of Industrial and Engineering Chemistry, 2020, 89, 13-27.	2.9	71
1315	Manufactory and Properties of Poly(<i>p</i> -Phenylenebenzobisoxazole) Aerogels Prepared by a Simple Freeze-Drying Procedure. Materials Science Forum, 0, 993, 662-668.	0.3	0
1316	The influence of structural gradients in large pore organosilica materials on the capabilities for hosting cellular communities. RSC Advances, 2020, 10, 17327-17335.	1.7	3
1317	Polyimide aerogels with novel bimodal micro and nano porous structure assembly for airborne nano filtering applications. RSC Advances, 2020, 10, 22909-22920.	1.7	28
1318	An overview on alumina-silica-based aerogels. Advances in Colloid and Interface Science, 2020, 282, 102189.	7.0	50
1319	Porous TiO2 aerogel-modified SiC ceramic membrane supported MnOx catalyst for simultaneous removal of NO and dust. Journal of Membrane Science, 2020, 611, 118366.	4.1	37
1320	Thermal Management by Engineering the Alignment of Nanocellulose. Advanced Materials, 2021, 33, e2001228.	11.1	43
1321	Preparation, Characterization, and In Vitro Sustained Release Profile of Resveratrol-Loaded Silica Aerogel. Molecules, 2020, 25, 2752.	1.7	27
1322	Synthesis of Si/O/C/N quaternary composite aerogels with micro/mesoporous structures and their selective adsorption property for volatile carbonyl compounds in cigarette smoke. Microporous and Mesoporous Materials, 2020, 301, 110164.	2.2	16
1323	Cellulose nanocrystal based multifunctional nanohybrids. Progress in Materials Science, 2020, 112, 100668.	16.0	113

#	Article	IF	CITATIONS
1324	Is Supercritical So Critical? The Choice of Temperature to Synthesize SiO2 Aerogels. Russian Journal of Inorganic Chemistry, 2020, 65, 255-262.	0.3	6
1325	Hybrid Sol–gel Coatings for Corrosion Mitigation: A Critical Review. Polymers, 2020, 12, 689.	2.0	76
1326	Smart Textiles for Electricity Generation. Chemical Reviews, 2020, 120, 3668-3720.	23.0	644
1327	Construction and characterization of versatile flexible composite nanofibrous aerogels based on thermoplastic polymeric nanofibers. Journal of Materials Science, 2020, 55, 8155-8169.	1.7	7
1328	Reducing the flammability of hydrophobic silica aerogels by tailored heat treatment. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	11
1329	Effect of TiO2 particle and pore size on DSSC efficiency. Materials for Renewable and Sustainable Energy, 2020, 9, 1.	1.5	21
1330	Hydrogels and Hydrogel-Derived Materials for Energy and Water Sustainability. Chemical Reviews, 2020, 120, 7642-7707.	23.0	646
1331	Capture and chemical fixation of carbon dioxide by chitosan grafted multi-walled carbon nanotubes. Journal of CO2 Utilization, 2020, 41, 101237.	3.3	35
1332	Anisotropic and hierarchical SiC@SiO ₂ nanowire aerogel with exceptional stiffness and stability for thermal superinsulation. Science Advances, 2020, 6, eaay6689.	4.7	164
1333	Fire retardancy and thermal behaviors of Cellulose nanofiber/zinc borate aerogel. Cellulose, 2020, 27, 7463-7474.	2.4	23
1334	A novel self-assembly approach for synthesizing nanofiber aerogel supported platinum single atoms. Journal of Materials Chemistry A, 2020, 8, 15094-15102.	5.2	5
1335	High catalytic activity and stability quasi homogeneous alkali metal promoted Ni/SiO2 aerogel catalysts for catalytic cracking of n-decane. Fuel, 2020, 268, 117384.	3.4	22
1336	Recent advances in preparations and applications of carbon aerogels: A review. Carbon, 2020, 163, 1-18.	5.4	246
1337	Structural and mechanical properties of hybrid silica aerogel formed using triethoxy(1-phenylethenyl)silane. Microporous and Mesoporous Materials, 2020, 298, 110092.	2,2	32
1338	A Remarkable Class of Nanocomposites: Aerogel Supported Bimetallic Nanoparticles. Frontiers in Materials, 2020, 7, .	1.2	20
1339	Green and Functional Aerogels by Macromolecular and Textural Engineering of Chitosan Microspheres. Chemical Record, 2020, 20, 753-772.	2.9	42
1340	Carbon Fiber and Nickel Coated Carbon Fiber–Silica Aerogel Nanocomposite as Low-Frequency Microwave Absorbing Materials. Materials, 2020, 13, 400.	1.3	16
1341	Application of Co-Mo bimetal/carbon composite in dye-sensitized solar cells and its research on synergy mechanism. Journal of Solid State Electrochemistry, 2020, 24, 753-759.	1.2	8

#	Article	IF	CITATIONS
1342	Continuous droplet reactor for the production of millimeter sized spherical aerogels. RSC Advances, 2020, 10, 2277-2282.	1.7	5
1343	Hydrothermal carbonization in the synthesis of sustainable porous carbon materials for water treatment., 2020,, 445-503.		6
1344	Alginate-Based Aerogel Particles as Drug Delivery Systems: Investigation of the Supercritical Adsorption and In Vitro Evaluations. Materials, 2020, 13, 329.	1.3	37
1345	Single-template periodic mesoporous organosilica with organized bimodal mesoporosity. Microporous and Mesoporous Materials, 2020, 297, 110042.	2.2	17
1346	Resorcinol–formaldehyde aerogel coating for inâ€ŧube solidâ€phase microextraction of estrogens. Journal of Separation Science, 2020, 43, 1323-1330.	1.3	9
1347	Composites of silica aerogels with organics: a review of synthesis and mechanical properties. Springer Series in Emerging Cultural Perspectives in Work, Organizational, and Personnel Studies, 2020, 57, 1-23.	1.5	33
1348	Superelastic Triple-Network Polyorganosiloxane-Based Aerogels as Transparent Thermal Superinsulators and Efficient Separators. Chemistry of Materials, 2020, 32, 1595-1604.	3.2	57
1349	Enhancing mechanical performances of polystyrene composites via constructing carbon nanotube/graphene oxide aerogel and hot pressing. Composites Science and Technology, 2020, 195, 108191.	3.8	23
1350	One-pot synthesis of polymer-reinforced silica aerogels from high internal phase emulsion templates. Journal of Colloid and Interface Science, 2020, 573, 62-70.	5.0	22
1351	Production of liposomes loaded alginate aerogels using two supercritical CO2 assisted techniques. Journal of CO2 Utilization, 2020, 39, 101161.	3.3	24
1352	Synthesis of Conductive Carbon Aerogels Decorated with \hat{l}^2 -Tricalcium Phosphate Nanocrystallites. Scientific Reports, 2020, 10, 5758.	1.6	8
1353	The Effect of the Coâ€Solvent on the Aerogel Formation Directly in Supercritical CO ₂ Medium. ChemistrySelect, 2020, 5, 5014-5021.	0.7	5
1354	Aerogels: promising nanostructured materials for energy conversion and storage applications. Materials for Renewable and Sustainable Energy, 2020, 9, 1.	1.5	82
1355	Mechanically Strong Polyurea/Polyurethane-Cross-Linked Alginate Aerogels. ACS Applied Polymer Materials, 2020, 2, 1974-1988.	2.0	32
1356	Development of flowable ultra-lightweight concrete using expanded glass aggregate, silica aerogel, and prefabricated plastic bubbles. Journal of Building Engineering, 2020, 31, 101399.	1.6	40
1357	Structure and properties of polyimide aerogels with different skeleton flexibilities. Soft Materials, 2021, 19, 50-55.	0.8	8
1358	High specific surface area hybrid silica aerogel containing POSS. Microporous and Mesoporous Materials, 2021, 310, 110456.	2.2	13
1359	Chitosan-based nanoparticles against bacterial infections. Carbohydrate Polymers, 2021, 251, 117108.	5.1	184

#	Article	IF	CITATIONS
1360	Carbon Related Materials. , 2021, , .		5
1361	Nanocellulose-based foam morphological, mechanical and thermal properties in relation to hydrogel precursor structure and rheology. Carbohydrate Polymers, 2021, 253, 117233.	5.1	7
1362	Nanocellulose-based sustainable microwave absorbers to stifle electromagnetic pollution. , 2021, , 237-258.		10
1363	Aerogel glazing systems for building applications: A review. Energy and Buildings, 2021, 231, 110587.	3.1	72
1364	Elastic ceramic aerogels for thermal superinsulation under extreme conditions. Materials Today, 2021, 42, 162-177.	8.3	73
1365	Pristine, transition metal and heteroatom-doped carbon aerogels for catalytic and electrocatalytic applications., 2021,, 235-253.		0
1366	Fabrication of graphene aerogel and graphene/carbon nanotube composite aerogel by freeze casting under ambient pressure and comparison of their properties. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 244-250.	1.0	9
1367	A Roadmap for 3D Metal Aerogels: Materials Design and Application Attempts. Matter, 2021, 4, 54-94.	5.0	60
1368	Functionalized porous filtration media for gravity-driven filtration: Reviewing a new emerging approach for oil and water emulsions separation. Separation and Purification Technology, 2021, 259, 117983.	3.9	49
1369	Nanocellulose-based lightweight porous materials: A review. Carbohydrate Polymers, 2021, 255, 117489.	5.1	118
1370	Effect of Crosslinking Agents on the Physicochemical and Digestive Properties of Corn Starch Aerogel. Starch/Staerke, 2021, 73, 2000161.	1.1	11
1371	Gel-emulsion templated polymeric aerogels for solar-driven interfacial evaporation and electricity generation. Materials Chemistry Frontiers, 2021, 5, 1953-1961.	3.2	23
1372	A review on the emerging resilient and multifunctional ceramic aerogels. Journal of Materials Science and Technology, 2021, 75, 1-13.	5 . 6	34
1373	Engineering SiO2–TiO2 binary aerogels for sun protection and cosmetic applications. Journal of Supercritical Fluids, 2021, 169, 105099.	1.6	12
1374	Sol–gel synthesis of 2-dimensional TiO2: self-assembly of Ti–oxoalkoxy–acetate complexes by carboxylate ligand directed condensation. Faraday Discussions, 2021, 227, 125-140.	1.6	7
1375	Reduced Graphene Oxide Aerogel inside Melamine Sponge as an Electrocatalyst for the Oxygen Reduction Reaction. Materials, 2021, 14, 322.	1.3	5
1376	Carbon aerogels: Synthesis, properties, and applications. , 2021, , 739-781.		0
1377	Magnetic aerogel: an advanced material of high importance. RSC Advances, 2021, 11, 7187-7204.	1.7	22

#	Article	IF	CITATIONS
1378	Capture and electroreduction of CO ₂ using highly efficient bimetallic Pd–Ag aerogels paired with carbon nanotubes. Journal of Materials Chemistry A, 2021, 9, 12870-12877.	5.2	22
1379	Metal and metal oxides aerogels in purification systems. , 2021, , 145-169.		0
1380	Natural aerogels for pollutant removal. , 2021, , 19-32.		1
1381	Mechanically Strong, Scalable, Mesoporous Xerogels of Nanocellulose Featuring Light Permeability, Thermal Insulation, and Flame Self-Extinction. ACS Nano, 2021, 15, 1436-1444.	7.3	59
1382	Transparent, ultraflexible, and superinsulating nanofibrous biocomposite aerogels <i>via</i> ambient pressure drying. Journal of Materials Chemistry A, 2021, 9, 5769-5779.	5.2	12
1383	Bio-based aerogels for environmental remediation problems. , 2021, , 329-345.		2
1384	Adsorptive removals of pollutants using aerogels and its composites., 2021,, 171-199.		0
1385	Aerogel applications and future aspects. , 2021, , 357-367.		3
1386	Synthesis of biopolymer-based metal nanoparticles. , 2021, , 255-316.		11
1387	Heavy metals scavenging using multidentate/multifunctional aerogels and their composites. , 2021, , 275-296.		3
1388	Tailoring Ultralight Hybrid Aerogels from Novel Porous Materials for the Removal of Dyes from Water. Sustainable Textiles, 2021, , 37-55.	0.4	0
1389	Porous Materials for Applications in Energy and Environment. , 2021, , 579-597.		2
1390	Greener synthesis and applications of hybrid sol–gel-processed materials. , 2021, , 459-490.		2
1391	Advances in thermal conductivity for energy applications: a review. Progress in Energy, 2021, 3, 012002.	4.6	24
1392	Fabrication and application of macroscopic nanowire aerogels. Nanoscale, 2021, 13, 7430-7446.	2.8	8
1393	Synthesis of a multicomponent silica aerogel-containing nanocomposite for efficient sound absorption properties. Polymers and Polymer Composites, 0, , 096739112098574.	1.0	6
1394	Multiple functional base-induced highly ordered graphene aerogels. Journal of Materials Chemistry C, 0, , .	2.7	5
1395	Recent Progress in Fabrication of Nanostructured Carbon Monolithic Materials., 2021,, 352-352.		0

#	Article	IF	CITATIONS
1396	Applications of nanocarbon-based aerogels in purifying industrial wastewater., 2021, , 297-327.		О
1397	Hybrid nanocomposites based on cellulose nanocrystals/nanofibrils and titanium oxide: Wastewater treatment., 2021,, 141-164.		1
1398	Carbon based materials: a review of adsorbents for inorganic and organic compounds. Materials Advances, 2021, 2, 598-627.	2.6	232
1399	Printed aerogels: chemistry, processing, and applications. Chemical Society Reviews, 2021, 50, 3842-3888.	18.7	128
1400	Advances on Dimensional Structure Designs and Functional Applications of Aerogels. Acta Chimica Sinica, 2021, 79, 430.	0.5	8
1401	Ultralight hybrid silica aerogels derived from supramolecular hydrogels self-assembled from insoluble nano building blocks. RSC Advances, 2021, 11, 7331-7337.	1.7	4
1402	Silica-Based Aerogels with Tunable Properties: The Highly Efficient BF ₃ -Catalyzed Preparation and Look inside Their Structure. Macromolecules, 2021, 54, 1961-1975.	2.2	10
1403	Templating Synthesis of Metal–Organic Framework Nanofiber Aerogels and Their Derived Hollow Porous Carbon Nanofibers for Energy Storage and Conversion. Small, 2021, 17, e2004140.	5.2	32
1404	Recent advances of noble metal aerogels in biosensing. View, 2021, 2, 20200124.	2.7	29
1405	Carbonâ€based flexible selfâ€supporting cathode for lithiumâ€sulfur batteries: Progress and perspective. , 2021, 3, 271-302.		77
1406	Ultrafine MoP Nanoparticle Splotched Nitrogenâ€Doped Carbon Nanosheets Enabling Highâ€Performance 3Dâ€Printed Potassiumâ€lon Hybrid Capacitors. Advanced Science, 2021, 8, 2004142.	5.6	109
1407	Recent Progress on Nanocellulose Aerogels: Preparation, Modification, Composite Fabrication, Applications. Advanced Materials, 2021, 33, e2005569.	11.1	311
1408	SYNTHESIS AND STUDY OF THE PROPERTIES OF XEROGELS DERIVED FROM SULFATED PINE ETHANOL LIGNIN. Khimiya Rastitel'nogo Syr'ya, 2021, , 45-54.	0.0	0
1409	A review of recent progress on the silica aerogel monoliths: synthesis, reinforcement, and applications. Journal of Materials Science, 2021, 56, 10812-10833.	1.7	47
1410	Crack- and Shrinkage-Free Ethylene-Bridged Polysilsesquioxane Film Prepared by a Hydrosilylation Reaction. ACS Omega, 2021, 6, 8430-8437.	1.6	10
1411	Planar metamaterial sensor with graphene elliptical rings in transmission mode. Applied Optics, 2021, 60, 2434.	0.9	9
1412	Silica Aerogel Application to Polyester Fabric for Outdoor Clothing. Fibers and Polymers, 2021, 22, 1025-1032.	1.1	7
1413	Rapid Preparation of Mesoporous Methylsilsesquioxane Aerogels by Microwave Heating Technology. Molecules, 2021, 26, 1960.	1.7	1

#	ARTICLE	IF	CITATIONS
1414	Inclusion of Hydrophobic Liquids in Silica Aerogel Microparticles in an Aqueous Process: Microencapsulation and Extra Pore Creation. ACS Applied Materials & Samp; Interfaces, 2021, 13, 12230-12240.	4.0	7
1415	Interfacial Engineering to Tailor the Properties of Multifunctional Ultralight Weight hBN-Polymer Composite Aerogels. ACS Applied Materials & Interfaces, 2021, 13, 13620-13628.	4.0	5
1416	From Protein Building Blocks to Functional Materials. ACS Nano, 2021, 15, 5819-5837.	7.3	83
1417	Enhanced thermal stability of high yttria concentration YSZ aerogels. Journal of the American Ceramic Society, 2021, 104, 4190-4202.	1.9	7
1418	Iodine Capture with Mechanically Robust Heat-Treated Ag–Al–Si–O Xerogel Sorbents. ACS Omega, 2021, 6, 11628-11638.	1.6	14
1419	Insulating and Robust Ceramic Nanorod Aerogels with High-Temperature Resistance over 1400 °C. ACS Applied Materials & (amp; Interfaces, 2021, 13, 20548-20558.	4.0	50
1420	Superelastic Polyimide Nanofiber-Based Aerogels Modified with Silicone Nanofilaments for Ultrafast Oil/Water Separation. ACS Applied Materials & Samp; Interfaces, 2021, 13, 20489-20500.	4.0	53
1421	lon-imprinted sponge produced by ice template-assisted freeze drying of salecan and graphene oxide nanosheets for highly selective adsorption of mercury (II) ion. Carbohydrate Polymers, 2021, 258, 117622.	5.1	15
1422	Aerogels as porous structures for food applications: Smart ingredients and novel packaging materials. Food Structure, 2021, 28, 100188.	2.3	62
1423	H2S-Sensing Studies Using Interdigitated Electrode with Spin-Coated Carbon Aerogel-Polyaniline Composites. Polymers, 2021, 13, 1457.	2.0	15
1424	Bipyridine Modified Conjugated Carbon Aerogels as a Platform for the Electrocatalysis of Oxygen Reduction Reaction. Advanced Functional Materials, 2021, 31, 2100163.	7.8	27
1425	Sonochemical effect and pore structure tuning of silica xerogel by ultrasonic irradiation of semi-solid hydrogel. Ultrasonics Sonochemistry, 2021, 73, 105476.	3.8	7
1426	Evolution of properties and enhancement mechanism of large-scale three-dimensional graphene oxide-carbon nanotube aerogel/polystyrene nanocomposites. Polymer Testing, 2021, 97, 107158.	2.3	11
1427	Enhanced workability, durability, and thermal properties of cement-based composites with aerogel and paraffin coated recycled aggregates. Journal of Cleaner Production, 2021, 297, 126518.	4.6	29
1428	Graphene aerogel-phase change material host-guest smart films. FlatChem, 2021, 27, 100249.	2.8	9
1429	Thermally insulating, fiber-reinforced alumina–silica aerogel composites with ultra-low shrinkage up to 1500Á°C. Chemical Engineering Journal, 2021, 411, 128402.	6.6	119
1430	Tailoring surface nanotube properties with copper nanoparticles for hydrogen production performance. Materials Letters, 2021, 290, 129500.	1.3	3
1431	Effect of Alcohol Chain Length on Formation of Cetyltrimethylammonium Bromideâ€templated Mesoporous Silica Layer on Gold Nanorods. Bulletin of the Korean Chemical Society, 2021, 42, 828-831.	1.0	2

#	Article	IF	CITATIONS
1432	Freezeâ€Casting with 3Dâ€Printed Templates Creates Anisotropic Microchannels and Patterned Macrochannels within Biomimetic Nanofiber Aerogels for Rapid Cellular Infiltration. Advanced Healthcare Materials, 2021, 10, e2100238.	3.9	33
1433	Designing Oxide Aerogels With Enhanced Sorptive and Degradative Activity for Acute Chemical Threats. Frontiers in Materials, 2021, 8, .	1.2	7
1434	A review on silica aerogel-based materials for acoustic applications. Journal of Non-Crystalline Solids, 2021, 562, 120770.	1.5	100
1435	Ultra-efficient adsorption of copper ions in chitosan–montmorillonite composite aerogel at wastewater treatment. Cellulose, 2021, 28, 7201-7212.	2.4	28
1436	Hollow Silica Particles: A Novel Strategy for Cost Reduction. Nanomaterials, 2021, 11, 1627.	1.9	5
1438	Design and Synthesis of Porous Organic Polymeric Materials from Norbornene Derivatives. Polymer Reviews, 2022, 62, 400-437.	5.3	15
1439	Macroscopic-Scale Preparation of Aramid Nanofiber Aerogel by Modified Freezing–Drying Method. ACS Nano, 2021, 15, 10000-10009.	7.3	79
1440	Nanocelluloses: Sources, Pretreatment, Isolations, Modification, and Its Application as the Drug Carriers. Polymers, 2021, 13, 2052.	2.0	34
1441	SiO2–TiO2 Binary Aerogels: A Small-Angle Scattering Study. Russian Journal of Inorganic Chemistry, 2021, 66, 874-882.	0.3	7
1442	Spatial Extent of Fluorescence Quenching in Mixed Semiconductor–Metal Nanoparticle Gel Networks. Advanced Functional Materials, 2021, 31, 2101628.	7.8	14
1443	Biodegradable Elastic Sponge from Nanofibrous Biphasic Calcium Phosphate Ceramic as an Advanced Material for Regenerative Medicine. Advanced Functional Materials, 2021, 31, 2102911.	7.8	15
1444	A hierarchical porous aerogel nanocomposite of graphene/NiCo2S4 as an active electrode material for supercapacitors. Journal of Science: Advanced Materials and Devices, 2021, 6, 569-577.	1.5	6
1445	Synthesis and electromagnetic wave absorbing properties of a polymer-derived SiBNC ceramic aerogel. Ceramics International, 2021, 47, 18984-18990.	2.3	28
1446	Thermal-energy and lighting performance of aerogel glazings with hollow silica: Field experimental study and dynamic simulations. Energy and Buildings, 2021, 243, 110999.	3.1	17
1447	Synthesis and characterization of modified resorcinol formaldehyde aerogel as a novel absorbent to remove oxytetracycline and chlortetracycline antibiotics from wastewater. Polymer Bulletin, 2022, 79, 6309-6341.	1.7	5
1448	Engineering of aerogelâ€based electrocatalysts for oxygen evolution reaction. Electrochemical Science Advances, 2022, 2, e2100113.	1.2	1
1449	3D printed colloidal biomaterials based on photo-reactive gelatin nanoparticles. Biomaterials, 2021, 274, 120871.	5.7	40
1450	Advances and Novel Perspectives on Colloids, Hydrogels, and Aerogels Based on Coordination Bonds with Biological Interest Ligands. Nanomaterials, 2021, 11, 1865.	1.9	10

#	Article	IF	CITATIONS
1451	One-pot synthesis of monolithic silica-cellulose aerogel applying a sustainable sodium silicate precursor. Construction and Building Materials, 2021, 293, 123289.	3.2	38
1452	Removal of perfluorooctanoic acid (PFOA) from aqueous solution by amino-functionalized graphene oxide (AGO) aerogels: Influencing factors, kinetics, isotherms, and thermodynamic studies. Science of the Total Environment, 2021, 783, 147041.	3.9	32
1453	Design, Development, and Outlook of Superwettability Membranes in Oil/Water Emulsions Separation. Advanced Materials Interfaces, 2021, 8, 2100799.	1.9	27
1454	Morphology Engineering of γ-Alumina Microgranules as Support of Cobalt Catalysts Used for Fischer‰Tropsch Synthesis: An Effective Strategy for Improving Catalytic Performance. Journal of Physical Chemistry C, 2021, 125, 17718-17733.	1.5	7
1455	Polymer derived ceramic aerogels. Current Opinion in Solid State and Materials Science, 2021, 25, 100936.	5.6	19
1456	Influence of Evaporation Drying on the Porous Properties of Carbon/Carbon Composite Xerogels. Polymers, 2021, 13, 2631.	2.0	2
1457	Applications of Titanium Dioxide Materials., 0, , .		5
1458	Thermal insulation TiN aerogels prepared by a combined freeze-casting and carbothermal reduction-nitridation technique. Journal of the European Ceramic Society, 2021, 41, 5127-5137.	2.8	21
1459	Preparation and characterization of caprine bone derived mineral substituted hydroxyapatite/phyllanthus acidus extract for biomedical applications. Materials Today: Proceedings, 2021, 49, 1730-1730.	0.9	1
1460	Preparation and performance evolution of enhancement polystyrene composites with graphene oxide/carbon nanotube hybrid aerogel: mechanical properties, electrical and thermal conductivity. Polymer Testing, 2021, 101, 107283.	2.3	9
1461	The Effect of Chloride Ions on the Resistance of Concretes Containing Aerogel Under Sodium Sulfate Attack. International Journal of Civil Engineering, 0 , 1 .	0.9	0
1462	Titanosilicate Epoxidation Catalysts: A Review of Challenges and Opportunities. ChemCatChem, 2022, 14, .	1.8	26
1463	A Systematic Study on Bio-Based Hybrid Aerogels Made of Tannin and Silica. Materials, 2021, 14, 5231.	1.3	3
1464	A novel preparation of superhydrophobic silica aerogels via the combustion drying method. Ceramics International, 2021, 47, 25274-25280.	2.3	11
1465	Combined strategy and Ni NPs/SiO2 aerogel catalyst for cracking hydrocarbon fuels. Journal of Power Sources, 2021, 506, 230172.	4.0	10
1466	A Brewster route to Cherenkov detectors. Nature Communications, 2021, 12, 5554.	5.8	24
1467	Remote optical detection of geometrical defects in aerogels and elastomers using phosphor thermometry. Optical Materials, 2021, 119, 111378.	1.7	3
1468	Biobased amphoteric aerogel derived from amine-modified clay-enriched chitosan/alginate for adsorption of organic dyes and chromium (VI) ions from aqueous solution. Materials Today Sustainability, 2021, 13, 100077.	1.9	34

#	Article	IF	CITATIONS
1469	Preparation and application of three-dimensional filler network towards organic phase change materials with high performance and multi-functions. Chemical Engineering Journal, 2021, 419, 129620.	6.6	56
1470	A Metallic Ionâ€Induced Selfâ€Assembly Enabling Nanowireâ€Based Aerogels. Small, 2021, 17, e2103406.	5.2	3
1471	Ultralightâ€Weight Graphene Aerogels with Extremely High Electrical Conductivity. Small, 2021, 17, e2103407.	5.2	17
1472	Synthesis and microstructure of Al ₂ O ₃ aerogel composite induced by different transition/lanthanide metal ions. Nano Express, 2021, 2, 030006.	1.2	1
1473	Preparation of silica xerogel beads embedded with Fe2O3 nanoparticles and their characterization. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	2
1474	Self-assembling of versatile Si3N4@SiO2 nanofibre sponges by direct nitridation of photovoltaic silicon waste. Journal of Hazardous Materials, 2021, 419, 126385.	6.5	5
1475	Modular aerogel brick fabrication via 3D-printed molds. Additive Manufacturing, 2021, 46, 102059.	1.7	6
1476	Porous material-based sorbent coatings in solid-phase microextraction technique: Recent trends and future perspectives. TrAC - Trends in Analytical Chemistry, 2021, 143, 116386.	5.8	31
1477	Preparation of the methyltriethoxysilane based aerogel monolith with an ultra-low density and excellent mechanical properties by ambient pressure drying. Journal of Colloid and Interface Science, 2021, 600, 764-774.	5.0	9
1478	High-performance quaternary ammonium-functionalized chitosan/graphene oxide composite aerogel for remelt syrup decolorization in sugar refining. Chemical Engineering Journal, 2022, 428, 132575.	6.6	38
1479	Transparent silica aerogel slabs synthesized from nanoparticle colloidal suspensions at near ambient conditions on omniphobic liquid substrates. Journal of Colloid and Interface Science, 2022, 606, 884-897.	5.0	6
1480	Facile preparation of a phenyl-reinforced flexible silica aerogel with excellent thermal stability and fire resistance. Materials Chemistry Frontiers, 2021, 5, 4214-4224.	3.2	17
1481	Biomedical applications of aerogel., 2021,, 33-48.		1
1482	Aerogel and its composites: fabrication and properties. , 2021, , 1-17.		1
1483	Carbon Fiberâ€"Silica Aerogel Composite with Enhanced Structural and Mechanical Properties Based on Water Glass and Ambient Pressure Drying. Nanomaterials, 2021, 11, 258.	1.9	19
1484	Synthesis and Characterization of Carbon Aerogels Electrodes Modified by Ag2S Nanoparticles. Materials Research, 2021, 24, .	0.6	6
1485	In situ reduced graphene-based aerogels embedded with gold nanoparticles for real-time humidity sensing and toxic dyes elimination. Mikrochimica Acta, 2021, 188, 10.	2.5	9
1486	Carbon aerogels for environmental remediation. , 2021, , 217-243.		1

#	Article	IF	CITATIONS
1487	Fundamentals of cellulose lightweight materials: bio-based assemblies with tailored properties. Green Chemistry, 2021, 23, 3542-3568.	4.6	57
1488	Effect of Aging Solvents on Physicochemical and Thermal Properties of Silica Xerogels Derived from Steel Slag. ChemistrySelect, 2020, 5, 1586-1591.	0.7	9
1489	Polymer-Crosslinked Aerogels. , 2011, , 251-285.		22
1490	Mechanical Characterization of Aerogels. , 2011, , 499-535.		19
1491	Aerogels and Sol–Gel Composites as Nanostructured Energetic Materials. , 2011, , 585-606.		2
1492	Aerogels as Platforms for Chemical Sensors. , 2011, , 637-650.		9
1493	Applications of Aerogels in Space Exploration. , 2011, , 721-746.		8
1494	Chitosan Biopolymer-Silica Hybrid Aerogels. , 2004, , 227-246.		2
1495	Wet Gels and Their Drying. , 2020, , 323-362.		3
1496	Hybrid Aerogels., 2016,, 1-22.		2
1497	Graphene-based 3D lightweight cellular structures: Synthesis and applications. Korean Journal of Chemical Engineering, 2020, 37, 189-208.	1.2	10
1498	Titanium Dioxide Nanomaterials:  Synthesis, Properties, Modifications, and Applications. Chemical Reviews, 2007, 107, 2891-2959.	23.0	658
1499	Preparation and loads transfer behaviour of graphene/halloysite organic–inorganic hybrid aerogel. Micro and Nano Letters, 2020, 15, 503-508.	0.6	2
1500	Supercritical fluids in chemistry. Russian Chemical Reviews, 2020, 89, 1337-1427.	2.5	62
1501	Simple model of the slingshot effect. Physical Review Accelerators and Beams, 2016, 19, .	0.6	5
1502	Investigation of Polyurea-Crosslinked Silica Aerogels as a Neuronal Scaffold: A Pilot Study. PLoS ONE, 2012, 7, e33242.	1.1	38
1503	Sol-gel Encapsulation of Biomolecules and Cells for Medicinal Applications. Current Topics in Medicinal Chemistry, 2015, 15, 223-244.	1.0	52
1504	A Review of Synthesis and Nanopore Structures of Organic Polymer Aerogels and Carbon Aerogels. Recent Patents on Chemical Engineering, 2010, 1, 192-200.	0.5	16

#	Article	IF	CITATIONS
1506	Rapid synthesis of Super Insulation silica aerogel composites strengthened with mullite fibers. , 2016, , .		1
1507	Synthesis and characterization of flexible and high-temperature resistant polyimide aerogel with ultra-low dielectric constant. EXPRESS Polymer Letters, 2016, 10, 789-798.	1.1	29
1508	Advanced Design and Synthesis of Composite Photocatalysts for the Remediation of Wastewater: A Review. Catalysts, 2019, 9, 122.	1.6	185
1509	Cyclodextrins as a Key Piece in Nanostructured Materials: Quantitation and Remediation of Pollutants. Nanomaterials, 2021, 11, 7.	1.9	13
1510	HYDROLYSIS AND OLIGOMERIZATION MECHANISMS OF Si(OCH ₃) ₄ IN ACIDIC SOLUTIONS: A DFT INVESTIGATION. Acta Polymerica Sinica, 2013, 013, 118-125.	0.0	1
1511	Fabrication and Network Strengthening of Monolithic Silica Aerogels Using Water Glass. Journal of the Korean Ceramic Society, 2007, 44, 162-168.	1.1	3
1512	Flexible and Transparent Silica Aerogels: An Overview. Journal of the Korean Ceramic Society, 2017, 54, 184-199.	1.1	83
1513	Progresses on the Optimal Processing and Properties of Highly Porous Rare Earth Silicate Thermal Insulators. Journal of the Korean Ceramic Society, 2018, 55, 527-555.	1.1	5
1514	Enzymatic Carbon Dioxide Capture. ISRN Chemical Engineering, 2012, 2012, 1-22.	1.2	43
1515	Influence of Aging Factors on the Properties of Aerogels with Different Degrees of Granulation. Fibres and Textiles in Eastern Europe, 2019, 27, 50-58.	0.2	4
1516	Comparison of nanoclay/polyvinyl alcohol aerogels scale production: Life Cycle Assessment. Chemical Engineering Research and Design, 2021, 176, 243-253.	2.7	1
1517	Recent Advances of Porous Materials Based on Cyclodextrin. Macromolecular Rapid Communications, 2021, 42, e2100497.	2.0	19
1518	A simple and green strategy for preparing flexible thermoplastic polyimide foams with exceptional mechanical, thermal-insulating properties, and temperature resistance for high-temperature lightweight composite sandwich structures. Composites Part B: Engineering, 2022, 228, 109405.	5.9	25
1519	Polymeric materials for solar water purification. Journal of Polymer Science, 2021, 59, 3084-3099.	2.0	21
1520	A Wideâ€Range Linear and Stable Piezoresistive Sensor Based on Methylcelluloseâ€Reinforced, Lamellar, and Wrinkled Graphene Aerogels. Advanced Materials Technologies, 2022, 7, 2101021.	3.0	14
1521	Carbon-based aerogels for biomedical sensing: Advances toward designing the ideal sensor. Advances in Colloid and Interface Science, 2021, 298, 102550.	7.0	33
1522	Preparation of Silica-supported Nickel Catalyst by Fume Pyrolysis: Effects of Preparation Conditions of Precursory Solution on Porosity and Nickel Dispersion. Journal of the Japan Petroleum Institute, 2005, 48, 90-96.	0.4	1
1523	Design and Performance Evaluation of Advanced Window Systems. , 2005, , .		0

#	Article	IF	CITATIONS
1524	Mechanically Strong Lightweight Porous Materials f, 2005, , .		0
1525	Second Harmonic Generation by BaTiO3 microparticles in porous materials., 2007,,.		o
1526	Amorphous Porous Adsorbents. , 2007, , 181-209.		0
1527	A Nano-porous Aerogel Biochip for Molecular Recognition of Nucleotide Acids. IFMBE Proceedings, 2009, , 8-10.	0.2	O
1528	MNF-based Photonic Components and Devices. Advanced Topics in Science and Technology in China, 2010, , 125-185.	0.0	0
1529	Novel method for manufacturing of aerocellulose. , 2010, , .		0
1530	Nanocomposites magnétiques à base de silice préparés par des méthodes vertes : synthèse, propriétÃ application dans le traitement de l'eau. Materiaux Et Techniques, 2012, 100, 221-239.	ĩs et 0.3	0
1531	Preparation and characterization of polyhedral oligomeric silsesquioxane-zirconia aerogels. Qiangjiguang Yu Lizishu/High Power Laser and Particle Beams, 2013, 25, 1975-1978.	0.0	0
1532	Preparation of High Specific Surface Area Alumina-Titania Binary Aerogel Beads. Hans Journal of Chemical Engineering and Technology, 2013, 03, 86-90.	0.0	0
1533	Co2 Capture In A Spray Column Using A Critical Flow Atomizer. , 2014, , 79-108.		O
1534	Recent Advances in the Synthesis of Protein-Based Hydrogels. , 2016, , 587-652.		0
1536	A Selection of Emerging Information Materials, Their Properties, Fabrication, and Application in Speculative Spatial Installations., 2017,, 85-166.		0
1537	Aerogels: Cellulose-Based. , 2017, , 19-57.		0
1538	Pore Structure and Electrochemical Properties of Carbon Aerogels as an EDLC-Electrode with Different Preparation Conditions. Korean Journal of Materials Research, 2018, 28, 50-61.	0.1	1
1539	Development of Agro-Industrial Waste Reinforced Natural Rubber Composite: A Potential Formulation for Rubber Flooring Product. Journal of Advanced Chemical Sciences, 2018, 4, 571-575.	0.2	0
1540	Nanoporous Aerogels for Defense and Aerospace Applications. , 2019, , 1-43.		0
1541	Color manipulation of silica aerogel by copper incorporation during sol-gel process. Journal of Ceramic Processing Research, 2019, 20, 30-34.	0.4	0
1542	Porous Materials for Applications in Energy and Environment. , 2020, , 1-19.		О

#	Article	IF	CITATIONS
1543	Thermal Behavior of Aerogel-Embedded Nonwovens in Cross Airflow. Autex Research Journal, 2021, 21, 115-124.	0.6	4
1544	A Facile Bonding Material to Enable Interconnection among complex Surfaces through AgNWs Aerogel., 2021,,.		0
1545	Amino-modified zirconia aerogels for the efficient filtration of NO ₂ : effects of water on the removal mechanisms. Environmental Science: Nano, 2021, 8, 3722-3734.	2.2	3
1546	Applications of Sol-Gel Processing. , 2020, , 597-685.		3
1547	Dry Gels. , 2020, , 363-420.		0
1548	Synthesis Method of Silica-Aluminum Based Aerogel Composites and Their Application in High Temperature Resistance. Material Sciences, 2021, 11, 112-1129.	0.0	0
1550	Foreign element doping and thermal stability of alumina aerogels. Journal of the American Ceramic Society, 2022, 105, 2288-2299.	1.9	13
1551	A facile method to prepare superhydrophobic nanocellulose-based aerogel with high thermal insulation performance via a two-step impregnation process. Cellulose, 2022, 29, 245-257.	2.4	20
1553	Carbon Materials as Electrodes of Electrochemical Double-Layer Capacitors: Textural and Electrochemical Characterization., 2021,, 149-185.		0
1554	Obtaining of zirconium silicate materials of aerogel type from aqueous solutions of Na2SiO3 and ZrOCl2 salts. Himia, Fizika Ta Tehnologia Poverhni, 2020, 11, 411-419.	0.2	0
1555	Stable thermal transport in reduced graphene-oxide aerogel at elevated temperatures. Materials Research Express, 2020, 7, 105603.	0.8	2
1556	Elastic and plastic mechanical properties of nanoparticle-based silica aerogels and xerogels. Microporous and Mesoporous Materials, 2022, 330, 111569.	2.2	15
1557	Emerging applications of aerogels in textiles. Polymer Testing, 2022, 106, 107426.	2.3	11
1559	Highly Stretchable, Crack-Insensitive and Compressible Ceramic Aerogel. ACS Nano, 2021, 15, 18354-18362.	7.3	55
1560	Treeâ€Inspired Ultralong Hydroxyapatite Nanowiresâ€Based Multifunctional Aerogel with Vertically Aligned Channels for Continuous Flow Catalysis, Water Disinfection, and Solar Energyâ€Driven Water Purification. Advanced Functional Materials, 2022, 32, 2106978.	7.8	58
1561	Elastic and highly fatigue resistant ZrO2-SiO2 nanofibrous aerogel with low energy dissipation for thermal insulation. Chemical Engineering Journal, 2022, 433, 133628.	6.6	31
1562	A spectroscopic insight of the porous structure of hydrophobic silica aerogels by hyperpolarized 129Xe NMR. Journal of Sol-Gel Science and Technology, 0, , 1.	1.1	6
1563	Superhydrophobic Silica Aerogels and Their Layer-by-Layer Structure for Thermal Management in Harsh Cold and Hot Environments. ACS Nano, 2021, 15, 19771-19782.	7.3	57

#	Article	IF	CITATIONS
1564	Super strong, shear resistant, and highly elastic lamellar structured ceramic nanofibrous aerogels for thermal insulation. Journal of Materials Chemistry A, 2021, 9, 27415-27423.	5.2	19
1565	Superhydrophobic and elastic silica/polyimide aerogel based on double confinement growth strategy of the co-sol system. Materials Chemistry Frontiers, 2022, 6, 482-490.	3.2	11
1566	Fabrication, characteristics, and applications of boron nitride and their composite nanomaterials. Surfaces and Interfaces, 2022, 29, 101725.	1.5	38
1567	A review on nanofiber reinforced aerogels for energy storage and conversion applications. Journal of Energy Storage, 2022, 46, 103927.	3.9	39
1568	Anisotropic all-aromatic polyimide aerogels with robust and high-temperature stable properties for flexible thermal protection. Chemical Engineering Journal, 2022, 431, 134047.	6.6	26
1569	Aerogel nanoarchitectonics based on cellulose nanocrystals and nanofibers from eucalyptus pulp: preparation and comparative study. Cellulose, 2022, 29, 817-833.	2.4	14
1570	Nontoxic double-network polymeric hybrid aerogel functionalized with reduced graphene oxide: Preparation, characterization, and evaluation as drug delivery agent. Journal of Polymer Research, 2022, 29, 1.	1,2	19
1571	Preparation of Si3N4-BCxN-TiN composite ceramic aerogels via foam-gelcasting. Journal of the European Ceramic Society, 2022, 42, 2699-2706.	2.8	7
1572	Superelastic Clay/Silicone Composite Sponges and Their Applications for Oil/Water Separation and Solar Interfacial Evaporation. Langmuir, 2022, 38, 1853-1859.	1.6	13
1573	Recent Advances in the Synthesis and Application of Three-Dimensional Graphene-Based Aerogels. Molecules, 2022, 27, 924.	1.7	14
1574	A general review on the use of advance oxidation and adsorption processes for the removal of furfural from industrial effluents. Microporous and Mesoporous Materials, 2022, 331, 111638.	2.2	46
1575	Electroreduction of carbon dioxide to formate using highly efficient bimetallic Sn–Pd aerogels. Materials Advances, 2022, 3, 1224-1230.	2.6	11
1576	Vacuum-dried, low-density and robust hydrophobic bridged silsesquioxane aerogels for oil–water separation. Journal of Materials Science, 2022, 57, 3360-3374.	1.7	1
1577	Controlled preparation of nitrogen-doped hierarchical carbon cryogels derived from Phenolic-Based resin and their CO2 adsorption properties. Energy, 2022, 246, 123367.	4.5	15
1578	Titanium dioxide (TiOâ,,)-based photocatalyst materials activity enhancement for contaminants of emerging concern (CECs) degradation: In the light of modification strategies. Chemical Engineering Journal Advances, 2022, 10, 100262.	2.4	102
1579	Aerogels for water treatment: A review. Journal of Cleaner Production, 2021, 329, 129713.	4.6	64
1580	Nanomaterial by Sol-Gel Method: Synthesis and Application. Advances in Materials Science and Engineering, 2021, 2021, 1-21.	1.0	321
1581	Materials prepared by Freezing-Induced Self-Assembly of Dispersed Solutes: A Review. Materials Advances, 2022, 3, 3041-3054.	2.6	5

#	Article	IF	CITATIONS
1582	Natural polysaccharide-based aerogels and their applications in oil–water separations: a review. Journal of Materials Chemistry A, 2022, 10, 8129-8158.	5.2	48
1583	Carbon Foam -Reinforced Polyimide-Based Carbon Aerogel Composites Prepared Via Co-Carbonization as Insulation Material. SSRN Electronic Journal, 0, , .	0.4	0
1584	Nanoporous metal and metalloid carbide aerogels. , 2022, , 69-87.		0
1585	Heterogeneous Photocatalytic Systems Based on Fluorinated Tetraphenylporphyrin Supported on Polysaccharide Aerogels. Russian Journal of Physical Chemistry A, 2022, 96, 444-449.	0.1	4
1586	Influence of Surface Tension of the Intrapore Liquid on Structural-Surface Properties of Hydrated Aluminum Oxide Obtained by Interaction of Aluminum Salts with Ammonia Gas. Key Engineering Materials, 0, 910, 787-794.	0.4	O
1587	Recyclable thermo-insulating panels made by reversible gelling of dispersed silica aerogel microparticles. Journal of Sol-Gel Science and Technology, 2023, 106, 432-443.	1.1	2
1588	Polyurea Aerogels: Synthesis, Material Properties, and Applications. Polymers, 2022, 14, 969.	2.0	19
1589	Functionalization of Aerogels with Coordination Compounds. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2022, 48, 89-117.	0.3	11
1590	Efficient Antibacterial Agent Delivery by Mesoporous Silica Aerogel. ACS Omega, 2022, 7, 7638-7647.	1.6	8
1591	Nanoporous–Crystalline Poly(2,6-dimethyl-1,4-phenylene)oxide Aerogels with Selectively Sulfonated Amorphous Phase for Fast VOC Sorption from Water. Materials, 2022, 15, 1947.	1.3	3
1592	Sorbitol cross-linked silica aerogels with improved textural and mechanical properties. Ceramics International, 2022, 48, 19198-19205.	2.3	4
1593	All-Ceramic and Elastic Aerogels with Nanofibrous-Granular Binary Synergistic Structure for Thermal Superinsulation. ACS Nano, 2022, 16, 5487-5495.	7. 3	59
1594	Effect of slurry processing on the properties of catalytically active copper-alumina aerogel material for applications in three-way catalysis. Journal of Sol-Gel Science and Technology, 2022, 102, 422-436.	1.1	2
1595	A Comprehensive Study on the Applications of Clays into Advanced Technologies, with a Particular Attention on Biomedicine and Environmental Remediation. Inorganics, 2022, 10, 40.	1.2	8
1596	Meso/microporous MOF@graphene oxide composite aerogels prepared by generic supercritical CO2 technology. Microporous and Mesoporous Materials, 2022, 335, 111825.	2.2	9
1597	Bioinspired Self-assembled Fe/Cu-Phenolic Blocks Building of Hierarchical Porous Biomass-Derived Carbon Aerogels for Enhanced Electrocatalytic Oxygen Reduction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, , 128932.	2.3	2
1598	Research Development in Silica Aerogel Incorporated Cementitious Composites—A Review. Polymers, 2022, 14, 1456.	2.0	13
1599	Solid sorbents for gaseous iodine capture and their conversion into stable waste forms. Journal of Nuclear Materials, 2022, 563, 153635.	1.3	14

#	Article	IF	CITATIONS
1600	Preparation of lignin based phenolic resin microspheres with controllable particle size and its application in capacitors. Diamond and Related Materials, 2022, 125, 109000.	1.8	5
1601	Nanoporous and hydrophobic new Chitosan-Silica blend aerogels for enhanced oil adsorption capacity. Journal of Cleaner Production, 2022, 351, 131247.	4.6	32
1602	High thermally insulating and lightweight Cr2O3Ââ°'ÂAl2O3 aerogel with rapid–cooling property. Applied Surface Science, 2022, 590, 153044.	3.1	8
1603	Preparation and Characterization of Electrosprayed Aerogel/Polytetrafluoroethylene Microporous Materials. Polymers, 2022, 14, 48.	2.0	0
1604	Super Electrical Insulating Materials Based on Honeycombâ€Inspired Nanostructure: High Electrical Strength and Low Permittivity and Dielectric Loss. Advanced Electronic Materials, 2022, 8, .	2.6	7
1605	Calcium-Doped Boron Nitride Aerogel Enables Infrared Stealth at High Temperature Up to 1300°C. Nano-Micro Letters, 2022, 14, 18.	14.4	21
1606	Highâ€performance thermal insulator based on polymer foam and silica xerogel. Polymer Engineering and Science, 2022, 62, 637-647.	1.5	2
1607	Mineral Hydrogel from Inorganic Salts: Biocompatible Synthesis, Allâ€inâ€One Charge Storage, and Possible Implications in the Origin of Life. Advanced Functional Materials, 2022, 32, .	7.8	14
1609	Structure and optical properties of spray deposited Cu–Mn–O thin films for optoelectronic devices. Optical Materials, 2022, 127, 112319.	1.7	1
1610	Silica Aerogel-Filled Polymer Foams by Emulsion-Templating: A One-Pot Synthesis, Hierarchical Architecture and Thermal Conductivity. SSRN Electronic Journal, 0, , .	0.4	0
1611	Nanoscale cellulose and nanocellulose-based aerogels. , 2022, , 229-260.		1
1612	Aerogel, xerogel, and cryogel: Synthesis, surface chemistry, and properties—Practical environmental applications and the future developments. , 2022, , 195-229.		2
1613	Flexible SiC nanowire aerogel with excellent thermal insulation properties. Ceramics International, 2022, 48, 22172-22178.	2.3	8
1614	Semi-Rigid Polyurethane Foam and Polymethylsilsesquioxane Aerogel Composite for Thermal Insulation and Sound Absorption. Macromolecular Research, 2022, 30, 245-253.	1.0	4
1615	Studies on the silver incorporated titania aerogel nanostructure as a photoanode in quasi solid dyesensitized solar cells. Materials Today: Proceedings, 2022, 65, 2473-2479.	0.9	2
1616	Fabrication of porous silica with controllable and tunable porosity via freeze casting. Journal of the American Ceramic Society, 2022, 105, 5114-5130.	1.9	10
1617	Structure, Stability and Rheological Properties of Zirconia Suspensions in the Presence of Nanocrystals: Effects of Ionic Strength /b>. Physics of Fluids, 0, , .	1.6	0
1618	Preparation and characterization of polymer-derived SiC ceramic aerogels toward excellent electromagnetic wave absorption properties. Journal of Materials Research and Technology, 2022, 19, 507-519.	2.6	15

#	Article	IF	CITATIONS
1619	Thermal Radiation Shielding and Mechanical Strengthening of Mullite Fiber/SiC Nanowire Aerogels Using In Situ Synthesized SiC Nanowires. Materials, 2022, 15, 3522.	1.3	5
1620	Carbon Foam-Reinforced Polyimide-Based Carbon Aerogel Composites Prepared via Co-Carbonization as Insulation Material. Gels, 2022, 8, 308.	2.1	11
1621	Synthesis of porous polyimide films with low dielectric constant and excellent mechanical properties by ambient pressure drying. Journal of Materials Science, 2022, 57, 9480-9492.	1.7	14
1622	Porous textile composites (PTCs) for the removal and the decomposition of chemical warfare agents (CWAs) $\hat{a}\in$ A review. Coordination Chemistry Reviews, 2022, 467, 214598.	9.5	17
1623	A lightweight thermally insulating and moisture-stable composite made of hollow silica particles. RSC Advances, 2022, 12, 15373-15377.	1.7	5
1624	Graphene aerogel based energy storage materials – A review. Materials Today: Proceedings, 2022, 65, 3369-3376.	0.9	6
1626	Graphene polymer foams and sponges' preparation and applications. , 2022, , 353-376.		0
1627	Multilayer metamaterial graphene sensor with high sensitivity and independent on the incident angle. Optik, 2022, 265, 169536.	1.4	5
1628	Protein-Based Flexible Conductive Aerogels for Piezoresistive Pressure Sensors. ACS Applied Bio Materials, 2022, 5, 3360-3370.	2.3	4
1629	Fabrication and thermal insulation properties of ceramic felts constructed by electrospun \hat{I}^3 -Y2Si2O7 fibers. Ceramics International, 2022, 48, 29913-29918.	2.3	10
1630	Review: Auxetic Polymer-Based Mechanical Metamaterials for Biomedical Applications. ACS Biomaterials Science and Engineering, 2022, 8, 2798-2824.	2.6	25
1631	Effect of SiO2 Aerogel on the Properties of Inorganic Cementing Materials. KSCE Journal of Civil Engineering, 2022, 26, 3216-3225.	0.9	6
1632	Mechanically Interlocked Aerogels with Densely Rotaxanated Backbones. Journal of the American Chemical Society, 2022, 144, 11434-11443.	6.6	27
1633	A Facile Method for Fabricating a Monolithic Mullite Fiber-Reinforced Alumina Aerogel with Excellent Mechanical and Thermal Properties. Gels, 2022, 8, 380.	2.1	5
1634	Critical Practices for the Preparation and Analysis of Kerogen. Energy & En	2.5	5
1635	High-Strength, Flexible, Hydrophobic, Sound-Absorbing, and Flame-Retardant Poly(vinyl) Tj ETQq1 1 0.784314 rg	:BT/Overlo	ock ₅ 10 Tf 50
1636	A novel process to fabricate ultralight, intact mullite (3Al2O3·2SiO2) aerogel bulk. Materials Letters, 2022, 324, 132603.	1.3	3
1638	Biocides and techniques for their encapsulation: a review. Soft Matter, 2022, 18, 5340-5358.	1.2	6

#	Article	IF	CITATIONS
1639	High-strength and superamphiphobic chitosan-based aerogels for thermal insulation and flame retardant applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129663.	2.3	12
1640	Controllable Strong and Ultralight Aramid Nanofiber-Based Aerogel Fibers for Thermal Insulation Applications. Advanced Fiber Materials, 2022, 4, 1267-1277.	7.9	36
1641	Biomass-based porous composites with heat transfer characteristics: preparation, performance and evaluation - a review. Journal of Porous Materials, 2022, 29, 1667-1687.	1.3	2
1642	Graphene Oxide/Polyethylenimine Aerogels for the Removal of Hg(II) from Water. Gels, 2022, 8, 452.	2.1	8
1643	Preparation of polyimide aerogels by freezeâ€extraction and chemical imidization for 3D printing. Journal of Applied Polymer Science, 2022, 139, .	1.3	3
1644	Silica aerogel-filled polymer foams by emulsion-templating: One-pot synthesis, hierarchical architecture and thermal conductivity. Chemical Engineering Journal, 2022, 450, 138251.	6.6	7
1645	Multifunctional SiC@SiO2 Nanofiber Aerogel with Ultrabroadband Electromagnetic Wave Absorption. Nano-Micro Letters, 2022, 14 , .	14.4	134
1646	Organic aerogel as electroâ€catalytic support in lowâ€temperature fuel cell. International Journal of Energy Research, 2022, 46, 16264-16280.	2.2	5
1647	Dynamically switching the asymmetric transmission and monodirectional absorption of circularly polarized waves using cascade composite resonator-graphene meta-surfaces. Optics Express, 2022, 30, 46180.	1.7	1
1648	Supercritical Fluid Technologies for the Incorporation of Synthetic and Natural Active Compounds into Materials for Drug Formulation and Delivery. Pharmaceutics, 2022, 14, 1670.	2.0	15
1649	Robust and Flexible Multimaterial Aerogel Fabric Toward Outdoor Passive Heating. Advanced Fiber Materials, 2022, 4, 1545-1555.	7.9	23
1650	Understanding the effects of cellulose fibers from various pre-treated barley straw on properties of aerogels. Fuel Processing Technology, 2022, 236, 107425.	3.7	7
1651	Effect of cotton fiber addition and carbonization temperature to the structural-and-surface-property change of C/C composite xerogels as electrodes for electric double layer capacitors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 285, 115966.	1.7	3
1652	Replacement of cementitious material by using agricultural waste. AIP Conference Proceedings, 2022, ,	0.3	0
1653	Aerogel Nanomaterials for Dye Degradation. Environmental Science and Engineering, 2022, , 151-172.	0.1	0
1654	Synthesis and Characterization of a new Alginate-Gelatine Aerogel for Tissue Engineering., 2022,,.		3
1655	Cellulose-Based Functional Materials for Sensing. Chemosensors, 2022, 10, 352.	1.8	15
1657	Dimensional stabilization of wood by microporous silica aerogel using in-situ polymerization. Wood Science and Technology, 2022, 56, 1353-1375.	1.4	6

#	Article	IF	CITATIONS
1658	Effect of Sol Concentration on Properties of Alumina Aerogels. Russian Journal of Inorganic Chemistry, 2022, 67, 1646-1651.	0.3	1
1659	Large-scale synthesis of macroscopic layered inorganic-organic hybrid nanobelt aerogel monoliths with multifunctionality. Cell Reports Physical Science, 2022, , 101079.	2.8	0
1660	Polysaccharideâ€based porous biopolymers for enhanced bioaccessibility and bioavailability of bioactive food compounds: Challenges, advances, and opportunities. Comprehensive Reviews in Food Science and Food Safety, 2022, 21, 4610-4639.	5.9	19
1661	A Robust, Flexible, Hydrophobic, and Multifunctional Pressure Sensor Based on an MXene/Aramid Nanofiber (ANF) Aerogel Film. ACS Applied Materials & Samp; Interfaces, 2022, 14, 47075-47088.	4.0	31
1662	Insights into sustainable aerogels from lignocellulosic materials. Journal of Materials Chemistry A, 2022, 10, 23467-23482.	5.2	5
1663	The dramatic influence of gelation solvent choice on the structure and mechanical properties of resorcinol-formaldehyde aerogels. Journal of Porous Materials, 0, , .	1.3	0
1664	Remediation of Chromium Heavy Metal Ion by Green Synthesized Nanocomposites., 2023,, 1-30.		1
1665	Schiff base cross-linked dialdehyde cellulose/gelatin composite aerogels as porous structure templates for oleogels preparation. International Journal of Biological Macromolecules, 2023, 224, 667-675.	3.6	9
1666	MXene-Based Porous Monoliths. Nanomaterials, 2022, 12, 3792.	1.9	3
1667	Aerogels Meet Phase Change Materials: Fundamentals, Advances, and Beyond. ACS Nano, 2022, 16, 15586-15626.	7.3	53
1668	Effect of deoxycholic acid co-sensitization in porphyrin dye on quasi-solid dye-sensitized solar cells comprising titania aerogel with a large surface area. Solid-State Electronics, 2022, 198, 108480.	0.8	0
1669	Compensation strategy for constructing high-performance aerogels using acrylamide-assisted vacuum drying and their use as water-induced electrical generators. Chemical Engineering Journal, 2023, 452, 139685.	6.6	6
1670	Novel bridged polysilsesquioxane aerogels with great mechanical properties and hydrophobicity. E-Polymers, 2022, 22, 870-882.	1.3	1
1671	Development Status and Application Prospect of Aerogels. Journal of Engineering Studies, 2017, 09, 558-567.	0.0	0
1672	A perspective on graphene based aerogels and their environmental applications. FlatChem, 2022, 36, 100449.	2.8	11
1673	Effect of Pluronic F-127 on the Rate of the Release of 2-(2-Hydroxyphenyl)-4,5-Diphenyl-1H-Imidazole from Aerogel Matrices Based on Chitosan and Sodium Alginate Impregnated in an sc-Co2 Medium. Russian Journal of Physical Chemistry A, 2022, 96, 2563-2570.	0.1	1
1674	Influence of drying technique on Pt/In2O3 aerogels for methanol steam reforming. Journal of Sol-Gel Science and Technology, 2023, 107, 218-226.	1,1	4
1675	Aerogels-Inspired based Photo and Electrocatalyst for Water Splitting to Produce Hydrogen. Applied Materials Today, 2022, 29, 101670.	2.3	4

#	Article	IF	CITATIONS
1676	Medium-entropy ceramic aerogels for robust thermal sealing. Journal of Materials Chemistry A, 2023, 11, 742-752.	5.2	2
1677	Superior intrinsic flame-retardant phosphorylated chitosan aerogel as fully sustainable thermal insulation bio-based material. Polymer Degradation and Stability, 2023, 207, 110213.	2.7	17
1678	Rheological fingerprinting and applications of cellulose nanocrystal based composites: A review. Journal of Molecular Liquids, 2023, 370, 121011.	2.3	5
1679	Insulative wood materials templated by wet foams. Materials Advances, 2023, 4, 641-650.	2.6	4
1680	3D fibrous aerogels from 1D polymer nanofibers for energy and environmental applications. Journal of Materials Chemistry A, 2023, 11, 512-547.	5.2	52
1681	Efficient removal of persistent and emerging organic pollutants by biosorption using abundant biomass wastes. Chemosphere, 2023, 313, 137307.	4.2	8
1682	Elytra-mimetic ceramic fiber aerogel with excellent mechanical, anti-oxidation, and thermal insulation properties. Journal of the European Ceramic Society, 2023, 43, 1407-1416.	2.8	5
1683	Using small angle x-ray scattering to examine the aggregation mechanism in silica nanoparticle-based ambigels for improved optical clarity. Journal of Chemical Physics, 2023, 158, .	1.2	5
1684	(M)other tongue: the optic and haptic scale for restAURAtion works made of silica aerogel. Journal of Sol-Gel Science and Technology, 2023, 106, 480-494.	1.1	2
1685	Effect of solution pH on the microstructural and rheological properties in boehmite suspensions. Korea Australia Rheology Journal, 0, , .	0.7	1
1686	Preparation of Cu-modified bacterial cellulose aerogels derived from nata de coco towards the enhanced adsorption of hydrophobic organic solvents. Journal of Porous Materials, 2023, 30, 1195-1205.	1.3	4
1687	Uranium Removal from Aqueous Solutions by Aerogel-Based Adsorbents—A Critical Review. Nanomaterials, 2023, 13, 363.	1.9	7
1688	Reduced graphene oxide aerogel decorated with Mo2C nanoparticles toward multifunctional properties of hydrophobicity, thermal insulation and microwave absorption. International Journal of Minerals, Metallurgy and Materials, 2023, 30, 536-547.	2.4	18
1689	Polybenzodiazine Aerogels: All-Nitrogen Analogues of Polybenzoxazines─Synthesis, Characterization, and High-Yield Conversion to Nanoporous Carbons. Chemistry of Materials, 2023, 35, 432-446.	3.2	6
1690	Photovoltaic studies on iodine incorporated titania aerogel nanocomposites. Results in Optics, 2023, 10, 100346.	0.9	3
1691	CuBi bimetallic aerogel as peroxidase-like nanozyme for total antioxidant capacity colorimetric detection. Sensors and Actuators B: Chemical, 2023, 379, 133249.	4.0	7
1692	Silica xerogel and iron doped silica xerogel synthesis in presence of drying control chemical additives. Materials Chemistry and Physics, 2023, 297, 127347.	2.0	0
1693	Fabrication of Monolithic Para-Aramid Nanofibers/Cellulose Acetate Composite Aerogels with Homogeneous and Durable Cross-Linked Nanostructures for Filtration, Adsorption, and Drug Delivery. ACS Applied Nano Materials, 2023, 6, 171-179.	2.4	3

#	Article	IF	CITATIONS
1694	Aero Graphene in Modern Aircraft & DAV. Recent Innovations in Mechatronics, 2022, 9, .	0.1	0
1695	Synthesis and Properties of Xerogels Derived from Sulfated Pine Ethanol Lignin. Russian Journal of Bioorganic Chemistry, 2022, 48, 1506-1513.	0.3	0
1696	The Rising Aerogel Fibers: Status, Challenges, and Opportunities. Advanced Science, 2023, 10, .	5.6	26
1697	Progress on the application of graphene-based composites toward energetic materials: A review. Defence Technology, 2024, 31, 95-116.	2.1	7
1698	From Wet Gel to the Final Product: Draw Your Way. SpringerBriefs in Materials, 2023, , 33-41.	0.1	0
1699	Graphdiyne aerogel architecture <i>via</i> a modified Hiyama coupling reaction for gas adsorption. Chemical Communications, 2023, 59, 2165-2168.	2.2	3
1700	Resilient and Antipuncturing Si ₃ N ₄ Nanofiber Sponge. Nano Letters, 2023, 23, 1289-1297.	4.5	7
1701	Superelastic and Ultralight Aerogel Assembled from Hemp Microfibers. Advanced Functional Materials, 2023, 33, .	7.8	18
1702	Investigation on the pore structure and adsorption capacity of silica aerogels prepared with different cations. Journal of Materials Science, 2023, 58, 6602-6617.	1.7	0
1703	Micro-mechanism insights into the adsorption of anionic dyes using quaternary ammonium-functionalised chitosan aerogels. Carbohydrate Polymers, 2023, 313, 120855.	5.1	21
1704	Review: Application of chitosan and its derivatives in medical materials. International Journal of Biological Macromolecules, 2023, 240, 124398.	3.6	28
1705	Alpha Al ₂ O ₃ Nanosheet-Based Biphasic Aerogels with High-Temperature Resistance up to 1600 °C. ACS Applied Materials & Samp; Interfaces, 2023, 15, 6848-6858.	4.0	7
1706	Superâ€Stretchable Hybrid Aerogels by Selfâ€Templating Strategy for Crossâ€Media Thermal Management. Macromolecular Rapid Communications, 2023, 44, .	2.0	4
1707	Silica Aerogel: Synthesis, Characterization, Applications, and Recent Advancements. Particle and Particle Systems Characterization, 2023, 40, .	1.2	10
1708	Biomedical applications of silica-based aerogels: a comprehensive review. Macromolecular Research, 2023, 31, 519-538.	1.0	8
1709	Versatile Recyclable Kevlar Nanofibrous Aerogels Enabled by Destabilizing Dynamic Balance Strategy. Advanced Fiber Materials, 2023, 5, 1050-1062.	7.9	7
1710	Hierarchical Biobased Macroporous/Mesoporous Carbon: Fabrication, Characterization and Electrochemical/lon Exchange Properties. Materials, 2023, 16, 2101.	1.3	0
1711	Preparation of ZrO2 aerogels by L-malic acid and L-tartaric acid assistant sol–gel method. Journal of Sol-Gel Science and Technology, 2023, 106, 281-287.	1.1	0

#	Article	IF	CITATIONS
1712	Considerations about 3-glycidoxypropyltrimethoxysilane reactivity in function of the complexity of aqueous and plasma gel media. Journal of Molecular Structure, 2023, 1284, 135334.	1.8	0
1713	Biogenic Straw Aerogel Thermal Insulation Materials. Advanced Engineering Materials, 2023, 25, .	1.6	7
1714	Highly transparent silanized cellulose aerogels for boosting energy efficiency of glazing in buildings. Nature Energy, 2023, 8, 381-396.	19.8	34
1715	Recent Advances in Aerogel Materials from Electrospun Nanofibers: A Review. Fibers and Polymers, 2023, 24, 1553-1572.	1.1	3
1716	Monolithic Covalent Organic Frameworks with Hierarchical Architecture: Attractive Platform for Contaminant Remediation. Chemistry of Materials, 2023, 35, 2661-2682.	3.2	52
1717	Fast production of silica aerogel using methyltrimethoxysilane by ambient drying process for superior chemical adsorption properties. Journal of Porous Materials, 2023, 30, 1663-1673.	1.3	4
1719	Minireview on Design of Flexible Composite Phase Change Materials to Various Energy Applications: Progresses and Perspectives. Energy & En	2.5	7
1720	Multifunctional textile based on titanium xerogel: performance optimization through composition and microstructure. Journal of Sol-Gel Science and Technology, 0, , .	1.1	0
1721	Nacreâ€Mimetic Nanocomposite Aerogels with Exceptional Mechanical Performance for Thermal Superinsulation at Extreme Conditions. Advanced Materials, 2023, 35, .	11.1	11
1724	Remediation of Chromium Heavy Metal Ion by Green Synthesized Nanocomposites., 2023,, 1193-1222.		0
1728	An inclusive review on inorganic gels: classifications, synthesis methods and applications. Journal of the Iranian Chemical Society, 2023, 20, 1757-1779.	1.2	2
1748	Smart textiles for self-powered biomonitoring. , 2023, 1, .		38
1761	Synthesis of Metal Oxide Aerogels via Epoxide-Assisted Gelation of Metal Salts. Springer Handbooks, 2023, , 419-435.	0.3	0
1762	High Temperature Oxide Aerogels. Springer Handbooks, 2023, , 437-458.	0.3	0
1765	Phenolic Aerogels and Their Carbonization. Springer Handbooks, 2023, , 479-506.	0.3	0
1766	Aerogels from Engineering Polymers: Polyimide and Polyamide Aerogels. Springer Handbooks, 2023, , 567-594.	0.3	1
1767	Aerogels as Platforms for Chemical Sensors. Springer Handbooks, 2023, , 1289-1303.	0.3	0
1768	Nanocellulose Aerogels. Springer Handbooks, 2023, , 707-725.	0.3	0

#	Article	IF	CITATIONS
1769	Biopolymer-Silica Aerogel Nanocomposites. Springer Handbooks, 2023, , 653-675.	0.3	0
1771	Environmental Applications for Aerogels. Springer Handbooks, 2023, , 1383-1398.	0.3	0
1772	Aerogel-Inspired Materials Derived from Industrial Waste. Springer Handbooks, 2023, , 1211-1237.	0.3	0
1773	Silica Aerogels. Springer Handbooks, 2023, , 309-334.	0.3	О
1774	Mechanical Characterization of Aerogels. Springer Handbooks, 2023, , 197-229.	0.3	1
1775	Polymer-Crosslinked Aerogels. Springer Handbooks, 2023, , 749-790.	0.3	0
1776	Application of Aerogels in Optical Devices. Springer Handbooks, 2023, , 1431-1454.	0.3	0
1777	Hydrophobic Silica Aerogels. Springer Handbooks, 2023, , 335-365.	0.3	1
1779	Aerogels and Sol–Gel Composites as Nanostructured Energetic Materials. Springer Handbooks, 2023, , 1241-1261.	0.3	0
1781	Improving Elastic Properties of Polymer-Reinforced Aerogels. Springer Handbooks, 2023, , 791-808.	0.3	0
1785	CuO metallic aerogels with a tailored nodular morphology. Dalton Transactions, 2023, 52, 14324-14328.	1.6	0
1786	Isocyanate-Derived Aerogels and Nanostructure–Materials Properties Relationships. Springer Handbooks, 2023, , 507-566.	0.3	0
1787	Supercritical Drying of Aerogels. Springer Handbooks, 2023, , 93-120.	0.3	0
1788	Applications of Aerogels in Space Exploration. Springer Handbooks, 2023, , 1505-1524.	0.3	0
1789	Biomedical Applications of Aerogels. Springer Handbooks, 2023, , 1455-1470.	0.3	0
1790	Metal Fluoride and Fluorinated Metal Oxide Aerogels. Springer Handbooks, 2023, , 1011-1039.	0.3	0
1796	A Review on Advancements of Novel Building Thermal Insulation Materials: Zirconia Aerogels. Environmental Science and Engineering, 2023, , 1-20.	0.1	0
1797	Interfacing metal organic frameworks with polymers or carbon-based materials: from simple to hierarchical porous and nanostructured composites. Chemical Science, 2023, 14, 12898-12925.	3.7	1

#	Article	IF	CITATIONS
1799	Functionalization of Cellulose-Based Materials. Advanced Structured Materials, 2023, , 89-104.	0.3	0
1816	Pore Structures in Carbon Hydrogels and Aerogels. , 2024, , 1-33.		0
1825	Carbon-Polyaniline Composite Adsorbents for Aqueous Pollutants Uptake., 2024,,.		0
1832	Cellulose and nanocellulose aerogels, their preparation methods, and potential applications: a review. Cellulose, 2024, 31, 2001-2029.	2.4	O