

Kazuki Nakanishi

List of Publications by Year in descending order

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papers

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135
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all docs

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docs citations

366
times ranked

12345
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#	ARTICLE	IF	CITATIONS
1	Octadecylsilylated Porous Silica Rods as Separation Media for Reversed-Phase Liquid Chromatography. <i>Analytical Chemistry</i> , 1996, 68, 3498-3501.	6.7	872
2	Pore Structure Control of Silica Gels Based on Phase Separation. <i>Journal of Porous Materials</i> , 1997, 4, 67-112.	2.6	732
3	The role of hydrated silica, titania, and alumina in inducing apatite on implants. <i>Journal of Biomedical Materials Research Part B</i> , 1994, 28, 7-15.	3.1	664
4	Apatite Formation Induced by Silica Gel in a Simulated Body Fluid. <i>Journal of the American Ceramic Society</i> , 1992, 75, 2094-2097.	3.8	486
5	Monolithic silica columns for high-efficiency chromatographic separations. <i>Journal of Chromatography A</i> , 2002, 965, 35-49.	3.7	478
6	Dependence of Apatite Formation on Silica Gel on Its Structure: Effect of Heat Treatment. <i>Journal of the American Ceramic Society</i> , 1995, 78, 1769-1774.	3.8	467
7	Solâ€“Gel with Phase Separation. Hierarchically Porous Materials Optimized for High-Performance Liquid Chromatography Separations. <i>Accounts of Chemical Research</i> , 2007, 40, 863-873.	16.4	430
8	Peer Reviewed: Monolithic LC Columns. <i>Analytical Chemistry</i> , 2001, 73, 420 A-429 A.	6.7	413
9	Facile Synthesis of Marshmallowâ€“like Macroporous Gels Usable under Harsh Conditions for the Separation of Oil and Water. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1986-1989.	14.3	408
10	Phase Separation in Gelling Silica-Organic Polymer Solution: Systems Containing Poly(sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	3.8	385
11	New Transparent Methylsilsesquioxane Aerogels and Xerogels with Improved Mechanical Properties. <i>Advanced Materials</i> , 2007, 19, 1589-1593.	21.7	377
12	Effect of skeleton size on the performance of octadecylsilylated continuous porous silica columns in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1997, 762, 135-146.	3.7	324
13	Performance of a Monolithic Silica Column in a Capillary under Pressure-Driven and Electrodriven Conditions. <i>Analytical Chemistry</i> , 2000, 72, 1275-1280.	6.7	316
14	A New Monolithic-Type HPLC Column For Fast Separations. <i>Journal of High Resolution Chromatography</i> , 2000, 23, 93-99.	1.4	306
15	Monolithic Silica Columns for HPLC, Micro-HPLC, and CEC. <i>Journal of High Resolution Chromatography</i> , 2000, 23, 111-116.	1.4	299
16	Phase separation in silica sol-gel system containing polyacrylic acid I. Gel formaation behavior and effect of solvent composition. <i>Journal of Non-Crystalline Solids</i> , 1992, 139, 1-13.	3.2	292
17	Monolithic silica columns with various skeleton sizes and through-pore sizes for capillary liquid chromatography. <i>Journal of Chromatography A</i> , 2002, 961, 53-63.	3.7	270
18	Effect of domain size on the performance of octadecylsilylated continuous porous silica columns in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1998, 797, 121-131.	3.7	266

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19	Monolithic Silica-Based Capillary Reversed-Phase Liquid Chromatography/Electrospray Mass Spectrometry for Plant Metabolomics. <i>Analytical Chemistry</i> , 2003, 75, 6737-6740.	6.7	251
20	High-Level Doping of Nitrogen, Phosphorus, and Sulfur into Activated Carbon Monoliths and Their Electrochemical Capacitances. <i>Chemistry of Materials</i> , 2015, 27, 4703-4712.	7.0	237
21	Preparation of monolithic silica columns for high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2008, 1191, 231-252.	3.7	220
22	Transparent, Superflexible Doubly Cross-Linked Polyvinylpolymethylsiloxane Aerogel Superinsulators via Ambient Pressure Drying. <i>ACS Nano</i> , 2018, 12, 521-532.	15.0	211
23	Monolithic silica columns for high-efficiency separations by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2002, 960, 85-96.	3.7	209
24	Controlled pore formation in organotrialkoxysilane-derived hybrids: from aerogels to hierarchically porous monoliths. <i>Chemical Society Reviews</i> , 2011, 40, 754-770.	39.8	204
25	Hierarchically Porous Carbon Monoliths Comprising Ordered Mesoporous Nanorod Assemblies for High-Voltage Aqueous Supercapacitors. <i>Chemistry of Materials</i> , 2016, 28, 3944-3950.	7.0	203
26	Synthesis of Monolithic Al ₂ O ₃ with Well-Defined Macropores and Mesosstructured Skeletons via the Sol-Gel Process Accompanied by Phase Separation. <i>Chemistry of Materials</i> , 2007, 19, 3393-3398.	7.0	198
27	Monolithic Periodic Mesoporous Silica with Well-Defined Macropores. <i>Chemistry of Materials</i> , 2005, 17, 2114-2119.	7.0	176
28	The thermal conductivity of polymethylsilsesquioxane aerogels and xerogels with varied pore sizes for practical application as thermal superinsulators. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6525-6531.	10.5	176
29	Designing monolithic double-pore silica for high-speed liquid chromatography. <i>Journal of Chromatography A</i> , 1998, 797, 133-137.	3.7	167
30	Polymethylsilsesquioxane/Cellulose Nanofiber Biocomposite Aerogels with High Thermal Insulation, Bendability, and Superhydrophobicity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9466-9471.	8.3	164
31	Monolithic TiO ₂ with Controlled Multiscale Porosity via a Template-Free Sol-Gel Process Accompanied by Phase Separation. <i>Chemistry of Materials</i> , 2006, 18, 6069-6074.	7.0	162
32	Process of formation of bone-like apatite layer on silica gel. <i>Journal of Materials Science: Materials in Medicine</i> , 1993, 4, 127-131.	3.6	156
33	Monolithic electrode for electric double-layer capacitors based on macro/meso/microporous S-Containing activated carbon with high surface area. <i>Journal of Materials Chemistry</i> , 2011, 21, 2060.	6.7	151
34	Performance of Monolithic Silica Capillary Columns with Increased Phase Ratios and Small-Sized Domains. <i>Analytical Chemistry</i> , 2006, 78, 7632-7642.	6.7	150
35	Spontaneous Formation of Hierarchical Macro/Mesoporous Ethane/Silica Monolith. <i>Chemistry of Materials</i> , 2004, 16, 3652-3658.	7.0	148
36	Phase Separation in Silica Sol-Gel System Containing Poly(ethylene oxide). I. Phase Relation and Gel Morphology. <i>Bulletin of the Chemical Society of Japan</i> , 1994, 67, 1327-1335.	3.3	144

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37	Induction and morphology of hydroxyapatite, precipitated from metastable simulated body fluids on sol-gel prepared silica. <i>Biomaterials</i> , 1993, 14, 963-968.	11.7	142
38	Simple and Comprehensive Two-Dimensional Reversed-Phase HPLC Using Monolithic Silica Columns. <i>Analytical Chemistry</i> , 2004, 76, 1273-1281.	6.7	139
39	Formation of Hierarchical Pore Structure in Silica Gel. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 17, 191-210.	2.3	138
40	Organic-inorganic hybrid poly(silsesquioxane) monoliths with controlled macro- and mesopores. <i>Journal of Materials Chemistry</i> , 2005, 15, 3776.	6.7	137
41	Rigid Macroporous Poly(divinylbenzene) Monoliths with a Well-Defined Bicontinuous Morphology Prepared by Living Radical Polymerization. <i>Advanced Materials</i> , 2006, 18, 2407-2411.	21.7	132
42	Versatile Double-Cross-Linking Approach to Transparent, Machinable, Supercompressible, Highly Bendable Aerogel Thermal Superinsulators. <i>Chemistry of Materials</i> , 2018, 30, 2759-2770.	7.0	130
43	Hierarchically Porous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Anode Materials for Li - and Na -ion Batteries: Effects of Nanoarchitectural Design and Temperature Dependence of the Rate Capability. <i>Advanced Energy Materials</i> , 2015, 5, 1400730.	20.1	124
44	New flexible aerogels and xerogels derived from methyltrimethoxysilane/dimethyldimethoxysilane co-precursors. <i>Journal of Materials Chemistry</i> , 2011, 21, 17077.	6.7	122
45	A Superamphiphobic Macroporous Silicone Monolith with Marshmallow-like Flexibility. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10788-10791.	14.3	122
46	Phase separation in silica sol-gel system containing polyacrylic acid II. Effects of molecular weight and temperature. <i>Journal of Non-Crystalline Solids</i> , 1992, 139, 14-24.	3.2	121
47	Silica ROD, a new challenge in fast high-performance liquid chromatography separations. <i>TrAC - Trends in Analytical Chemistry</i> , 1998, 17, 50-53.	11.8	118
48	Elastic organic-inorganic hybrid aerogels and xerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 48, 172-181.	2.3	114
49	Performance of an octadecylsilylated continuous porous silica column in polypeptide separations. <i>Journal of Chromatography A</i> , 1998, 828, 83-90.	3.7	113
50	Hard Carbon Anodes for Na -ion Batteries: Toward a Practical Use. <i>ChemElectroChem</i> , 2015, 2, 1917-1920.	3.4	112
51	Tailoring Mesopores in Monolithic Macroporous Silica for HPLC. <i>Journal of High Resolution Chromatography</i> , 2000, 23, 106-110.	1.4	110
52	Crystalline ZrO_2 Monoliths with Well-Defined Macropores and Mesostructured Skeletons Prepared by Combining the Alkoxy-Derived Sol-gel Process Accompanied by Phase Separation and the Solvothermal Process. <i>Chemistry of Materials</i> , 2008, 20, 2165-2173.	7.0	110
53	Structural formation of hybrid siloxane-based polymer monolith in confined spaces. <i>Journal of Separation Science</i> , 2004, 27, 874-886.	2.6	109
54	Superflexible Multifunctional Polyvinylpolydimethylsiloxane-Based Aerogels as Efficient Absorbents, Thermal Superinsulators, and Strain Sensors. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9722-9727.	14.3	108

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55	Bonelike apatite formation on ethylene-vinyl alcohol copolymer modified with silane coupling agent and calcium silicate solutions. <i>Biomaterials</i> , 2003, 24, 1729-1735.	11.7	107
56	Preparation of Macroporous Titania Films by a Sol-Gel Dip-Coating Method from the System Containing Poly(ethylene glycol). <i>Journal of the American Ceramic Society</i> , 1998, 81, 2670-2676.	3.8	107
57	Selective Preparation of Macroporous Monoliths of Conductive Titanium Oxides $Ti_{1-x}O_{2-x}$ ($x = 2, 3, 4, 6$). <i>Journal of the American Chemical Society</i> , 2012, 134, 10894-10898.	14.4	106
58	Effects of ions in aqueous media on hydroxyapatite induction by silica gel and its relevance to bioactivity of bioactive glasses and glass-ceramics. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , 1993, 4, 221-229.	1.2	103
59	Structure Design of Double-Pore Silica and Its Application to HPLC. <i>Journal of Sol-Gel Science and Technology</i> , 1998, 13, 163-169.	2.3	99
60	Sol-gel synthesis of macro-mesoporous titania monoliths and their applications to chromatographic separation media for organophosphate compounds. <i>Journal of Chromatography A</i> , 2009, 1216, 7375-7383.	3.7	97
61	Development of a monolithic silica extraction tip for the analysis of proteins. <i>Journal of Chromatography A</i> , 2004, 1043, 19-25.	3.7	96
62	Transparent, Highly Insulating Polyethyl- and Polyvinylsilsesquioxane Aerogels: Mechanical Improvements by Vulcanization for Ambient Pressure Drying. <i>Chemistry of Materials</i> , 2016, 28, 6860-6868.	7.0	96
63	Monolithic silica column for in-tube solid-phase microextraction coupled to high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2003, 985, 351-357.	3.7	94
64	Facile Preparation of Hierarchically Porous TiO_2 Monoliths. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3110-3115.	3.8	92
65	Silicon-Based Organic-Inorganic Hybrid Aerogels and Xerogels. <i>Chemistry - A European Journal</i> , 2017, 23, 5176-5187.	3.5	91
66	Facile Synthesis of Macroporous Cross-Linked Methacrylate Gels by Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2008, 41, 7186-7193.	5.0	88
67	Structural characterization of hierarchically porous alumina aerogel and xerogel monoliths. <i>Journal of Colloid and Interface Science</i> , 2009, 338, 506-513.	9.6	87
68	Apatite formation on silica gel in simulated body fluid: Its dependence on structures of silica gels prepared in different media. , 1996, 33, 145-151.		86
69	Phase-Separation-Induced Titania Monoliths with Well-Defined Macropores and Mesostructured Framework from Colloid-Derived Sol-Gel Systems. <i>Chemistry of Materials</i> , 2006, 18, 864-866.	7.0	85
70	Chromatographic Properties of Miniaturized Silica Rod Columns. <i>Journal of High Resolution Chromatography</i> , 1998, 21, 477-479.	1.4	84
71	Facile Preparation of Monolithic $LiFePO_4$ /Carbon Composites with Well-Defined Macropores for a Lithium-Ion Battery. <i>Chemistry of Materials</i> , 2011, 23, 5208-5216.	7.0	82
72	Superhydrophobic Ultraflexible Triple-Network Graphene/Polyorganosiloxane Aerogels for a High-Performance Multifunctional Temperature/Strain/Pressure Sensing Array. <i>Chemistry of Materials</i> , 2019, 31, 6276-6285.	7.0	82

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73	Synthesis of Monolithic Hierarchically Porous Iron-Based Xerogels from Iron(III) Salts via an Epoxide-Mediated Sol-Gel Process. <i>Chemistry of Materials</i> , 2012, 24, 2071-2077.	7.0	78
74	Functionalization of hierarchically porous silica monoliths with polyethyleneimine (PEI) for CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2017, 245, 51-57.	4.5	78
75	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. <i>Chemistry of Materials</i> , 2017, 29, 2122-2134.	7.0	76
76	High-performance liquid chromatographic enantioseparations on capillary columns containing monolithic silica modified with cellulose tris(3,5-dimethylphenylcarbamate). <i>Journal of Separation Science</i> , 2004, 27, 905-911.	2.6	75
77	Multiscale Templating of Siloxane Gels via Polymerization-Induced Phase Separation. <i>Chemistry of Materials</i> , 2008, 20, 1108-1115.	7.0	75
78	Simple 2D-HPLC using a monolithic silica column for peptide separation. <i>Journal of Separation Science</i> , 2004, 27, 897-904.	2.6	74
79	High-performance liquid chromatographic enantioseparations on capillary columns containing monolithic silica modified with amylose tris(3,5-dimethylphenylcarbamate). <i>Journal of Chromatography A</i> , 2006, 1110, 46-52.	3.7	73
80	High-performance liquid chromatographic enantioseparations on capillary columns containing crosslinked polysaccharide phenylcarbamate derivatives attached to monolithic silica. <i>Journal of Separation Science</i> , 2006, 29, 1988-1995.	2.6	72
81	Monolithic silica columns with chemically bonded β -cyclodextrin as a stationary phase for enantiomer separations of chiral pharmaceuticals. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 892-901.	3.8	70
82	Double pore silica gel monolith applied to liquid chromatography. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 8, 547-552.	2.3	69
83	Pore Formation in Poly(divinylbenzene) Networks Derived from Organotellurium-Mediated Living Radical Polymerization. <i>Macromolecules</i> , 2009, 42, 1270-1277.	5.0	69
84	Fabrication of activated carbons with well-defined macropores derived from sulfonated poly(divinylbenzene) networks. <i>Carbon</i> , 2010, 48, 1757-1766.	10.4	69
85	Surface Functionalization of Silica by Si^{H} Activation of Hydrosilanes. <i>Journal of the American Chemical Society</i> , 2014, 136, 11570-11573.	14.4	68
86	Mechanically stable, hierarchically porous Cu ₃ (btc) ₂ (HKUST-1) monoliths via direct conversion of copper(II) hydroxide-based monoliths. <i>Chemical Communications</i> , 2015, 51, 3511-3514.	4.3	67
87	Ultralow-Density, Transparent, Superamphiphobic Boehmite Nanofiber Aerogels and Their Alumina Derivatives. <i>Chemistry of Materials</i> , 2015, 27, 3-5.	7.0	67
88	Studies on electrochemical sodium storage into hard carbons with binder-free monolithic electrodes. <i>Journal of Power Sources</i> , 2016, 318, 41-48.	8.0	67
89	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 17, 7-18.	2.3	65
90	Transition from transparent aerogels to hierarchically porous monoliths in polymethylsilsesquioxane sol-gel system. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 336-344.	9.6	64

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91	Phase Separation in Silica Sol-Gel System Containing Poly(ethylene oxide) II. Effects of Molecular Weight and Temperature. Bulletin of the Chemical Society of Japan, 1997, 70, 587-592.	3.3	63
92	Sol-Gel Process of Oxides Accompanied by Phase Separation. Bulletin of the Chemical Society of Japan, 2006, 79, 673-691.	3.3	63
93	Apatite formation on silica gel in simulated body fluid: effects of structural modification with solvent-exchange. Journal of Materials Science: Materials in Medicine, 1998, 9, 279-284.	3.6	62
94	Surface interaction of well-defined, concentrated poly(2-hydroxyethyl methacrylate) brushes with proteins. Journal of Polymer Science Part A, 2007, 45, 4795-4803.	2.3	62
95	Polymerization-induced phase separation in silica sol-gel systems containing formamide. Journal of Sol-Gel Science and Technology, 1993, 1, 35-46.	2.3	61
96	High-throughput protein digestion by trypsin-immobilized monolithic silica with pipette-tip formula. Journal of Proteomics, 2007, 70, 57-62.	2.4	60
97	Rigid Crosslinked Polyacrylamide Monoliths with Well-Defined Macropores Synthesized by Living Polymerization. Macromolecular Rapid Communications, 2009, 30, 986-990.	4.1	59
98	Layered double hydroxide (LDH)-based monolith with interconnected hierarchical channels: enhanced sorption affinity for anionic species. Journal of Materials Chemistry A, 2013, 1, 7702.	10.5	58
99	Permeation of gases in poly(1-(trimethylsilyl)-1-propyne).. Kobunshi Ronbunshu, 1986, 43, 747-753.	0.2	57
100	Superelastic Triple-Network Polyorganosiloxane-Based Aerogels as Transparent Thermal Superinsulators and Efficient Separators. Chemistry of Materials, 2020, 32, 1595-1604.	7.0	57
101	Formation of ordered macropores and templated nanopores in silica sol-gel system incorporated with EO-PO-EO triblock copolymer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 187-188, 117-122.	4.8	55
102	Impact of Electrolyte on Pseudocapacitance and Stability of Porous Titanium Nitride (TiN) Monolithic Electrode. Journal of the Electrochemical Society, 2015, 162, A77-A85.	2.9	55
103	Superelastic Multifunctional Aminosilane-Crosslinked Graphene Aerogels for High Thermal Insulation, Three-Component Separation, and Strain/Pressure-Sensing Arrays. ACS Applied Materials & Interfaces, 2019, 11, 43533-43542.	8.3	55
104	Effects of aging and solvent exchange on pore structure of silica gels with interconnected macropores. Journal of Non-Crystalline Solids, 1995, 189, 66-76.	3.2	53
105	Apatite-forming ability of silicate ion dissolved from silica gels. , 1996, 32, 375-381.		53
106	Chromatographic characterization of macroporous monolithic silica prepared via sol-gel process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 187-188, 273-279.	4.8	53
107	Structure and properties of polymethylsilsesquioxane aerogels synthesized with surfactant n-hexadecyltrimethylammonium chloride. Microporous and Mesoporous Materials, 2012, 158, 247-252.	4.5	53
108	Hierarchically Porous Monoliths Based on N-Doped Reduced Titanium Oxides and Their Electric and Electrochemical Properties. Chemistry of Materials, 2013, 25, 3504-3512.	7.0	52

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109	Preparation of mullite monoliths with well-defined macropores and mesostructured skeletons via the sol-gel process accompanied by phase separation. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1967-1974.	5.6	52
110	Sol-gel modification of silicone to induce apatite-forming ability. <i>Biomaterials</i> , 1999, 20, 79-84.	11.7	50
111	Transparent Ethylene-Bridged Polymethylsiloxane Aerogels and Xerogels with Improved Bending Flexibility. <i>Langmuir</i> , 2016, 32, 13427-13434.	3.7	49
112	Titania-coated monolithic silica as separation medium for high performance liquid chromatography of phosphorus-containing compounds. <i>Journal of Separation Science</i> , 2005, 28, 39-44.	2.6	48
113	Synthesis of hierarchical macro/mesoporous dicalcium phosphate monolith via epoxide-mediated sol-gel reaction from ionic precursors. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 57, 269-278.	2.3	48
114	Synthesis of robust hierarchically porous zirconium phosphate monolith for efficient ion adsorption. <i>New Journal of Chemistry</i> , 2015, 39, 2444-2450.	2.7	48
115	Structural study of mesoporous titania and titanium-stearic acid complex prepared from titanium alkoxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 3161-3168.	1.7	47
116	Synthesis of Hierarchically Porous Hydrogen Silsesquioxane Monoliths and Embedding of Metal Nanoparticles by On-Site Reduction. <i>Advanced Functional Materials</i> , 2013, 23, 2714-2722.	15.3	47
117	Strong light scattering in macroporous TiO ₂ monoliths induced by phase separation. <i>Applied Physics Letters</i> , 2004, 85, 5595-5597.	3.4	46
118	Preparation of macroporous cordierite monoliths via the sol-gel process accompanied by phase separation. <i>Journal of the European Ceramic Society</i> , 2014, 34, 817-823.	5.6	46
119	Grafted Polymethylhydrosiloxane on Hierarchically Porous Silica Monoliths: A New Path to Monolith-Supported Palladium Nanoparticles for Continuous Flow Catalysis Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 406-412.	8.3	46
120	Three-Dimensional Structure of a Sintered Macroporous Silica Gel. <i>Langmuir</i> , 2001, 17, 619-625.	3.7	45
121	Performance of octadecylsilylated monolithic silica capillary columns of 530 μ m inner diameter in HPLC. <i>Journal of Separation Science</i> , 2006, 29, 2471-2477.	2.6	45
122	Sol-gel Synthesis of Macroporous YAG from Ionic Precursors via Phase Separation Route. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 925-928.	1.1	45
123	A New Route to Monolithic Macroporous SiC/C Composites from Biphenylene-bridged Polysilsesquioxane Gels. <i>Chemistry of Materials</i> , 2010, 22, 2541-2547.	7.0	45
124	New Insights into the Relationship between Micropore Properties, Ionic Sizes, and Electric Double-Layer Capacitance in Monolithic Carbon Electrodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26197-26203.	3.3	45
125	Role of block copolymer surfactant on the pore formation in methylsilsesquioxane aerogel systems. <i>RSC Advances</i> , 2012, 2, 7166.	3.7	43
126	Transparent Ethenylene-Bridged Polymethylsiloxane Aerogels: Mechanical Flexibility and Strength and Availability for Addition Reaction. <i>Langmuir</i> , 2017, 33, 4543-4550.	3.7	43

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127	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 26, 567-570.	2.3	42
128	Microanalysis for MDR1 ATPase by high-performance liquid chromatography with a titanium dioxide column. Analytical Biochemistry, 2004, 326, 262-266.	2.5	42
129	Sol-gel synthesis, porous structure, and mechanical property of polymethylsilsesquioxane aerogels. Journal of the Ceramic Society of Japan, 2009, 117, 1333-1338.	1.1	42
130	Designing Double Pore Structure in Alkoxy-Derived Silica Incorporated with Nonionic Surfactant. Journal of Porous Materials, 1998, 5, 103-110.	2.6	41
131	Porous Gels Made by Phase Separation: Recent Progress and Future Directions. Journal of Sol-Gel Science and Technology, 2000, 19, 65-70.	2.3	41
132	Synthesis of Silver Nanoparticles Confined in Hierarchically Porous Monolithic Silica: A New Function in Aromatic Hydrocarbon Separations. ACS Applied Materials & Interfaces, 2013, 5, 2118-2125.	8.3	41
133	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.	3.2	41
134	Preparation of Hierarchically Porous Nanocrystalline CaTiO_3 , SrTiO_3 and BaTiO_3 Perovskite Monoliths. Journal of the American Ceramic Society, 2011, 94, 3335-3339.	3.8	40
135	Fabrication of highly crosslinked methacrylate-based polymer monoliths with well-defined macropores via living radical polymerization. Polymer, 2011, 52, 4644-4647.	3.9	40
136	Hierarchically porous monoliths prepared via sol-gel process accompanied by spinodal decomposition. Journal of Sol-Gel Science and Technology, 2020, 95, 530-550.	2.3	40
137	Apatite formation on ethylene-vinyl alcohol copolymer modified with silanol groups. , 1999, 47, 367-373.		39
138	Mesoscopic superstructures of flexible porous coordination polymers synthesized via coordination replication. Chemical Science, 2015, 6, 5938-5946.	7.7	39
139	Phase Separation in Sol-Gel Process of Alkoxide-Derived Silica-Zirconia in the Presence of Polyethylene Oxide. Journal of the American Ceramic Society, 2001, 84, 1968-1976.	3.8	38
140	Fabrication of macroporous silicon carbide ceramics by intramolecular carbothermal reduction of phenyl-bridged polysilsesquioxane. Journal of Materials Chemistry, 2009, 19, 7716.	6.7	38
141	New Monolithic Capillary Columns with Well-Defined Macropores Based on Poly(styrene-co-divinylbenzene). ACS Applied Materials & Interfaces, 2012, 4, 2343-2347.	8.3	38
142	Resilient, fire-retardant and mechanically strong polyimide-polyvinylpolymethylsiloxane composite aerogel prepared via stepwise chemical liquid deposition. Materials and Design, 2019, 183, 108096.	7.1	38
143	Sorption of Alcohol Vapors in a Disubstituted Polyacetylene. Polymer Journal, 1987, 19, 293-296.	2.8	37
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