Kazuki Nakanishi

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Octadecylsilylated Porous Silica Rods as Separation Media for Reversed-Phase Liquid Chromatography. Analytical Chemistry, 1996, 68, 3498-3501.	3.2	872
2	Pore Structure Control of Silica Gels Based on Phase Separation. Journal of Porous Materials, 1997, 4, 67-112.	1.3	732
3	The role of hydrated silica, titania, and alumina in inducing apatite on implants. Journal of Biomedical Materials Research Part B, 1994, 28, 7-15.	3.0	664
4	Apatite Formation Induced by Silica Gel in a Simulated Body Fluid. Journal of the American Ceramic Society, 1992, 75, 2094-2097.	1.9	486
5	Monolithic silica columns for high-efficiency chromatographic separations. Journal of Chromatography A, 2002, 965, 35-49.	1.8	478
6	Dependence of Apatite Formation on Silica Gel on Its Structure: Effect of Heat Treatment. Journal of the American Ceramic Society, 1995, 78, 1769-1774.	1.9	467
7	Solâ€"Gel with Phase Separation. Hierarchically Porous Materials Optimized for High-Performance Liquid Chromatography Separations. Accounts of Chemical Research, 2007, 40, 863-873.	7.6	430
8	Peer Reviewed: Monolithic LC Columns. Analytical Chemistry, 2001, 73, 420 A-429 A.	3.2	413
9	Facile Synthesis of Marshmallowâ€like Macroporous Gels Usable under Harsh Conditions for the Separation of Oil and Water. Angewandte Chemie - International Edition, 2013, 52, 1986-1989.	7.2	408
10	Phase Separation in Gelling Silica-Organic Polymer Solution: Systems Containing Poly(sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	1.9	385
11	New Transparent Methylsilsesquioxane Aerogels and Xerogels with Improved Mechanical Properties. Advanced Materials, 2007, 19, 1589-1593.	11.1	377
12	Effect of skeleton size on the performance of octadecylsilylated continuous porous silica columns in reversed-phase liquid chromatography. Journal of Chromatography A, 1997, 762, 135-146.	1.8	324
13	Performance of a Monolithic Silica Column in a Capillary under Pressure-Driven and Electrodriven Conditions. Analytical Chemistry, 2000, 72, 1275-1280.	3.2	316
14	A New Monolithic-Type HPLC Column For Fast Separations. Journal of High Resolution Chromatography, 2000, 23, 93-99.	2.0	306
15	Monolithic Silica Columns for HPLC, Micro-HPLC, and CEC. Journal of High Resolution Chromatography, 2000, 23, 111-116.	2.0	299
16	Phase separation in silica sol-gel system containing polyacrylic acid I. Gel formaation behavior and effect of solvent composition. Journal of Non-Crystalline Solids, 1992, 139, 1-13.	1.5	292
17	Monolithic silica columns with various skeleton sizes and through-pore sizes for capillary liquid chromatography. Journal of Chromatography A, 2002, 961, 53-63.	1.8	270
18	Effect of domain size on the performance of octadecylsilylated continuous porous silica columns in reversed-phase liquid chromatography. Journal of Chromatography A, 1998, 797, 121-131.	1.8	266

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19	Monolithic Silica-Based Capillary Reversed-Phase Liquid Chromatography/Electrospray Mass Spectrometry for Plant Metabolomics. Analytical Chemistry, 2003, 75, 6737-6740.	3.2	251
20	High-Level Doping of Nitrogen, Phosphorus, and Sulfur into Activated Carbon Monoliths and Their Electrochemical Capacitances. Chemistry of Materials, 2015, 27, 4703-4712.	3.2	237
21	Preparation of monolithic silica columns for high-performance liquid chromatography. Journal of Chromatography A, 2008, 1191, 231-252.	1.8	220
22	Transparent, Superflexible Doubly Cross-Linked Polyvinylpolymethylsiloxane Aerogel Superinsulators via Ambient Pressure Drying. ACS Nano, 2018, 12, 521-532.	7.3	211
23	Monolithic silica columns for high-efficiency separations by high-performance liquid chromatography. Journal of Chromatography A, 2002, 960, 85-96.	1.8	209
24	Controlled pore formation in organotrialkoxysilane-derived hybrids: from aerogels to hierarchically porous monoliths. Chemical Society Reviews, 2011, 40, 754-770.	18.7	204
25	Hierarchically Porous Carbon Monoliths Comprising Ordered Mesoporous Nanorod Assemblies for High-Voltage Aqueous Supercapacitors. Chemistry of Materials, 2016, 28, 3944-3950.	3.2	203
26	Synthesis of Monolithic Al2O3 with Well-Defined Macropores and Mesostructured Skeletons via the Solâˆ’Gel Process Accompanied by Phase Separation. Chemistry of Materials, 2007, 19, 3393-3398.	3.2	198
27	Monolithic Periodic Mesoporous Silica with Well-Defined Macropores. Chemistry of Materials, 2005, 17, 2114-2119.	3.2	176
28	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
29	Designing monolithic double-pore silica for high-speed liquid chromatography. Journal of Chromatography A, 1998, 797, 133-137.	1.8	167
30	Polymethylsilsesquioxaneâ€“Cellulose Nanofiber Biocomposite Aerogels with High Thermal Insulation, Bendability, and Superhydrophobicity. ACS Applied Materials & Interfaces, 2014, 6, 9466-9471.	4.0	164
31	Monolithic TiO2with Controlled Multiscale Porosity via a Template-Free Solâˆ’Gel Process Accompanied by Phase Separation. Chemistry of Materials, 2006, 18, 6069-6074.	3.2	162
32	Process of formation of bone-like apatite layer on silica gel. Journal of Materials Science: Materials in Medicine, 1993, 4, 127-131.	1.7	156
33	Monolithic electrode for electric double-layer capacitors based on macro/meso/microporous S-Containing activated carbon with high surface area. Journal of Materials Chemistry, 2011, 21, 2060.	6.7	151
34	Performance of Monolithic Silica Capillary Columns with Increased Phase Ratios and Small-Sized Domains. Analytical Chemistry, 2006, 78, 7632-7642.	3.2	150
35	Spontaneous Formation of Hierarchical Macroâˆ’Mesoporous Ethaneâˆ’Silica Monolith. Chemistry of Materials, 2004, 16, 3652-3658.	3.2	148
36	Phase Separation in Silica Solâ€“Gel System Containing Poly(ethylene oxide). I. Phase Relation and Gel Morphology. Bulletin of the Chemical Society of Japan, 1994, 67, 1327-1335.	2.0	144

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37	Induction and morphology of hydroxyapatite, precipitated from metastable simulated body fluids on sol-gel prepared silica. Biomaterials, 1993, 14, 963-968.	5.7	142
38	Simple and Comprehensive Two-Dimensional Reversed-Phase HPLC Using Monolithic Silica Columns. Analytical Chemistry, 2004, 76, 1273-1281.	3.2	139
39	Formation of Hierarchical Pore Structure in Silica Gel. Journal of Sol-Gel Science and Technology, 2000, 17, 191-210.	1.1	138
40	Organicâ€“inorganic hybrid poly(silsesquioxane) monoliths with controlled macro- and mesopores. Journal of Materials Chemistry, 2005, 15, 3776.	6.7	137
41	Rigid Macroporous Poly(divinylbenzene) Monoliths with a Well-Defined Bicontinuous Morphology Prepared by Living Radical Polymerization. Advanced Materials, 2006, 18, 2407-2411.	11.1	132
42	Versatile Double-Cross-Linking Approach to Transparent, Machinable, Supercompressible, Highly Bendable Aerogel Thermal Superinsulators. Chemistry of Materials, 2018, 30, 2759-2770.	3.2	130
43	Hierarchically Porous Li₄Ti₅O₁₂ Anode Materials for Liâ€•and Naâ€Ion Batteries: Effects of Nanoarchitectural Design and Temperature Dependence of the Rate Capability. Advanced Energy Materials, 2015, 5, 1400730.	10.2	124
44	New flexible aerogels and xerogels derived from methyltrimethoxysilane/dimethyldimethoxysilane co-precursors. Journal of Materials Chemistry, 2011, 21, 17077.	6.7	122
45	A Superamphiphobic Macroporous Silicone Monolith with Marshmallowâ€like Flexibility. Angewandte Chemie - International Edition, 2013, 52, 10788-10791.	7.2	122
46	Phase separation in silica sol-gel system containing polyacrylic acid II. Effects of molecular weight and temperature. Journal of Non-Crystalline Solids, 1992, 139, 14-24.	1.5	121
47	SilicaRODâ„¢ â€" A new challenge in fast high-performance liquid chromatography separations. TrAC - Trends in Analytical Chemistry, 1998, 17, 50-53.	5.8	118
48	Elastic organicâ€“inorganic hybrid aerogels and xerogels. Journal of Sol-Gel Science and Technology, 2008, 48, 172-181.	1.1	114
49	Performance of an octadecylsilylated continuous porous silica column in polypeptide separations. Journal of Chromatography A, 1998, 828, 83-90.	1.8	113
50	Hard Carbon Anodes for Naâ€Ion Batteries: Toward a Practical Use. ChemElectroChem, 2015, 2, 1917-1920.	1.7	112
51	Tailoring Mesopores in Monolithic Macroporous Silica for HPLC. Journal of High Resolution Chromatography, 2000, 23, 106-110.	2.0	110
52	Crystalline ZrO₂ Monoliths with Well-Defined Macropores and Mesostructured Skeletons Prepared by Combining the Alkoxy-Derived Solâ€“Gel Process Accompanied by Phase Separation and the Solvothermal Process. Chemistry of Materials, 2008, 20, 2165-2173.	3.2	110
53	Structural formation of hybrid siloxane-based polymer monolith in confined spaces. Journal of Separation Science, 2004, 27, 874-886.	1.3	109
54	Superflexible Multifunctional Polyvinylpolydimethylsiloxaneâ€Based Aerogels as Efficient Absorbents, Thermal Superinsulators, and Strain Sensors. Angewandte Chemie - International Edition, 2018, 57, 9722-9727.	7.2	108

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55	Bonelike apatite formation on ethylene-vinyl alcohol copolymer modified with silane coupling agent and calcium silicate solutions. Biomaterials, 2003, 24, 1729-1735.	5.7	107
56	Preparation of Macroporous Titania Films by a Solâ€Gel Dipâ€Coating Method from the System Containing Poly(ethylene glycol). Journal of the American Ceramic Society, 1998, 81, 2670-2676.	1.9	107
57	Selective Preparation of Macroporous Monoliths of Conductive Titanium Oxides Ti_{<i>n</i>}O_{2<i>n</i>â€“1} (<i>n</i> = 2, 3, 4, 6). Journal of the American Chemical Society, 2012, 134, 10894-10898.	6.6	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. Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials, 1993, 4, 221-229.	1.1	103
59	Structure Design of Double-Pore Silica and Its Application to HPLC. Journal of Sol-Gel Science and Technology, 1998, 13, 163-169.	1.1	99
60	Solâ€“gel synthesis of macroâ€“mesoporous titania monoliths and their applications to chromatographic separation media for organophosphate compounds. Journal of Chromatography A, 2009, 1216, 7375-7383.	1.8	97
61	Development of a monolithic silica extraction tip for the analysis of proteins. Journal of Chromatography A, 2004, 1043, 19-25.	1.8	96
62	Transparent, Highly Insulating Polyethyl- and Polyvinylsilsesquioxane Aerogels: Mechanical Improvements by Vulcanization for Ambient Pressure Drying. Chemistry of Materials, 2016, 28, 6860-6868.	3.2	96
63	Monolithic silica column for in-tube solid-phase microextraction coupled to high-performance liquid chromatography. Journal of Chromatography A, 2003, 985, 351-357.	1.8	94
64	Facile Preparation of Hierarchically Porous TiO₂ Monoliths. Journal of the American Ceramic Society, 2010, 93, 3110-3115.	1.9	92
65	Siliconeâ€Based Organicâ€“Inorganic Hybrid Aerogels and Xerogels. Chemistry - A European Journal, 2017, 23, 5176-5187.	1.7	91
66	Facile Synthesis of Macroporous Cross-Linked Methacrylate Gels by Atom Transfer Radical Polymerization. Macromolecules, 2008, 41, 7186-7193.	2.2	88
67	Structural characterization of hierarchically porous alumina aerogel and xerogel monoliths. Journal of Colloid and Interface Science, 2009, 338, 506-513.	5.0	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 Solâˆ’Gel Systems. Chemistry of Materials, 2006, 18, 864-866.	3.2	85
70	Chromatographic Properties of Miniaturized Silica Rod Columns. Journal of High Resolution Chromatography, 1998, 21, 477-479.	2.0	84
71	Facile Preparation of Monolithic LiFePO₄/Carbon Composites with Well-Defined Macropores for a Lithium-Ion Battery. Chemistry of Materials, 2011, 23, 5208-5216.	3.2	82
72	Superhydrophobic Ultraflexible Triple-Network Graphene/Polyorganosiloxane Aerogels for a High-Performance Multifunctional Temperature/Strain/Pressure Sensing Array. Chemistry of Materials, 2019, 31, 6276-6285.	3.2	82

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73	Synthesis of Monolithic Hierarchically Porous Iron-Based Xerogels from Iron(III) Salts via an Epoxide-Mediated Solâ€“Gel Process. Chemistry of Materials, 2012, 24, 2071-2077.	3.2	78
74	Functionalization of hierarchically porous silica monoliths with polyethyleneimine (PEI) for CO 2 adsorption. Microporous and Mesoporous Materials, 2017, 245, 51-57.	2.2	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. Chemistry of Materials, 2017, 29, 2122-2134.	3.2	76
76	High-performance liquid chromatographic enantioseparations on capillary columns containing monolithic silica modified with cellulose tris(3,5-dimethylphenylcarbamate). Journal of Separation Science, 2004, 27, 905-911.	1.3	75
77	Multiscale Templating of Siloxane Gels via Polymerization-Induced Phase Separation. Chemistry of Materials, 2008, 20, 1108-1115.	3.2	75
78	Simple 2D-HPLC using a monolithic silica column for peptide separation. Journal of Separation Science, 2004, 27, 897-904.	1.3	74
79	High-performance liquid chromatographic enantioseparations on capillary columns containing monolithic silica modified with amylose tris(3,5-dimethylphenylcarbamate). Journal of Chromatography A, 2006, 1110, 46-52.	1.8	73
80	High-performance liquid chromatographic enantioseparations on capillary columns containing crosslinked polysaccharide phenylcarbamate derivatives attached to monolithic silica. Journal of Separation Science, 2006, 29, 1988-1995.	1.3	72
81	Monolithic silica columns with chemically bonded ?-cyclodextrin as a stationary phase for enantiomer separations of chiral pharmaceuticals. Analytical and Bioanalytical Chemistry, 2003, 377, 892-901.	1.9	70
82	Double pore silica gel monolith applied to liquid chromatography. Journal of Sol-Gel Science and Technology, 1997, 8, 547-552.	1.1	69
83	Pore Formation in Poly(divinylbenzene) Networks Derived from Organotellurium-Mediated Living Radical Polymerization. Macromolecules, 2009, 42, 1270-1277.	2.2	69
84	Fabrication of activated carbons with well-defined macropores derived from sulfonated poly(divinylbenzene) networks. Carbon, 2010, 48, 1757-1766.	5.4	69
85	Surface Functionalization of Silica by Siâ€“H Activation of Hydrosilanes. Journal of the American Chemical Society, 2014, 136, 11570-11573.	6.6	68
86	Mechanically stable, hierarchically porous Cu₃(btc)₂ (HKUST-1) monoliths via direct conversion of copper(<scp>ii</scp>) hydroxide-based monoliths. Chemical Communications, 2015, 51, 3511-3514.	2.2	67
87	Ultralow-Density, Transparent, Superamphiphobic Boehmite Nanofiber Aerogels and Their Alumina Derivatives. Chemistry of Materials, 2015, 27, 3-5.	3.2	67
88	Studies on electrochemical sodium storage into hard carbons with binder-free monolithic electrodes. Journal of Power Sources, 2016, 318, 41-48.	4.0	67
89	Title is missing!. Journal of Sol-Gel Science and Technology, 2000, 17, 7-18.	1.1	65
90	Transition from transparent aerogels to hierarchically porous monoliths in polymethylsilsesquioxane solâ€“gel system. Journal of Colloid and Interface Science, 2011, 357, 336-344.	5.0	64

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91	Phase Separation in Silica Solâ€"Gel System Containing Poly(ethylene oxide) II. Effects of Molecular Weight and Temperature. Bulletin of the Chemical Society of Japan, 1997, 70, 587-592.	2.0	63
92	Solâ€"Gel Process of Oxides Accompanied by Phase Separation. Bulletin of the Chemical Society of Japan, 2006, 79, 673-691.	2.0	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.	1.7	62
94	Surface interaction of wellâ€defined, concentrated poly(2â€hydroxyethyl methacrylate) brushes with proteins. Journal of Polymer Science Part A, 2007, 45, 4795-4803.	2.5	62
95	Polymerization-induced phase separation in silica sol-gel systems containing formamide. Journal of Sol-Gel Science and Technology, 1993, 1, 35-46.	1.1	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 Wellâ€Defined Macropores Synthesized by Living Polymerization. Macromolecular Rapid Communications, 2009, 30, 986-990.	2.0	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.	5.2	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.	3.2	57
101	Formation of ordered macropores and templated nanopores in silica solâ€"gel system incorporated with EOâ€"POâ€"EO triblock copolymer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 187-188, 117-122.	2.3	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.	1.3	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.	4.0	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.	1.5	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.	2.3	53
107	Structure and properties of polymethylsilsesquioxane aerogels synthesized with surfactant n-hexadecyltrimethylammonium chloride. Microporous and Mesoporous Materials, 2012, 158, 247-252.	2.2	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.	3.2	52

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109	Preparation of mullite monoliths with well-defined macropores and mesostructured skeletons via the solâ€"gel process accompanied by phase separation. Journal of the European Ceramic Society, 2013, 33, 1967-1974.	2.8	52
110	Solâ€"gel modification of silicone to induce apatite-forming ability. Biomaterials, 1999, 20, 79-84.	5.7	50
111	Transparent Ethylene-Bridged Polymethylsiloxane Aerogels and Xerogels with Improved Bending Flexibility. Langmuir, 2016, 32, 13427-13434.	1.6	49
112	Titania-coated monolithic silica as separation medium for high performance liquid chromatography of phosphorus-containing compounds. Journal of Separation Science, 2005, 28, 39-44.	1.3	48
113	Synthesis of hierarchical macro/mesoporous dicalcium phosphate monolith via epoxide-mediated solâ€"gel reaction from ionic precursors. Journal of Sol-Gel Science and Technology, 2011, 57, 269-278.	1.1	48
114	Synthesis of robust hierarchically porous zirconium phosphate monolith for efficient ion adsorption. New Journal of Chemistry, 2015, 39, 2444-2450.	1.4	48
115	Structural study of mesoporous titania and titaniumâ€"stearic acid complex prepared from titanium alkoxide. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 3161-3168.	1.7	47
116	Synthesis of Hierarchically Porous Hydrogen Silsesquioxane Monoliths and Embedding of Metal Nanoparticles by Onâ€Site Reduction. Advanced Functional Materials, 2013, 23, 2714-2722.	7.8	47
117	Strong light scattering in macroporous TiO2 monoliths induced by phase separation. Applied Physics Letters, 2004, 85, 5595-5597.	1.5	46
118	Preparation of macroporous cordierite monoliths via the solâ€"gel process accompanied by phase separation. Journal of the European Ceramic Society, 2014, 34, 817-823.	2.8	46
119	Grafted Polymethylhydrosiloxane on Hierarchically Porous Silica Monoliths: A New Path to Monolith-Supported Palladium Nanoparticles for Continuous Flow Catalysis Applications. ACS Applied Materials & Interfaces, 2017, 9, 406-412.	4.0	46
120	Three-Dimensional Structure of a Sintered Macroporous Silica Gel. Langmuir, 2001, 17, 619-625.	1.6	45
121	Performance of octadecylsilylated monolithic silica capillary columns of 530 Î¼m inner diameter in HPLC. Journal of Separation Science, 2006, 29, 2471-2477.	1.3	45
122	Sol-gel Synthesis of Macroporous YAG from Ionic Precursors via Phase Separation Route. Journal of the Ceramic Society of Japan, 2007, 115, 925-928.	0.5	45
123	A New Route to Monolithic Macroporous SiC/C Composites from Biphenylene-bridged Polysilsesquioxane Gels. Chemistry of Materials, 2010, 22, 2541-2547.	3.2	45
124	New Insights into the Relationship between Micropore Properties, Ionic Sizes, and Electric Double-Layer Capacitance in Monolithic Carbon Electrodes. Journal of Physical Chemistry C, 2012, 116, 26197-26203.	1.5	45
125	Role of block copolymer surfactant on the pore formation in methylsilsesquioxane aerogel systems. RSC Advances, 2012, 2, 7166.	1.7	43
126	Transparent Ethenylene-Bridged Polymethylsiloxane Aerogels: Mechanical Flexibility and Strength and Availability for Addition Reaction. Langmuir, 2017, 33, 4543-4550.	1.6	43

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127	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 26, 567-570.	1.1	42
128	Microanalysis for MDR1 ATPase by high-performance liquid chromatography with a titanium dioxide column. Analytical Biochemistry, 2004, 326, 262-266.	1.1	42
129	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
130	Designing Double Pore Structure in Alkoxy-Derived Silica Incorporated with Nonionic Surfactant. Journal of Porous Materials, 1998, 5, 103-110.	1.3	41
131	Porous Gels Made by Phase Separation: Recent Progress and Future Directions. Journal of Sol-Gel Science and Technology, 2000, 19, 65-70.	1.1	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.	4.0	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.	1.5	41
134	Preparation of Hierarchically Porous Nanocrystalline <scp>CaTiO₃</scp>, <scp>SrTiO₃</scp> and <scp>BaTiO₃</scp> Perovskite Monoliths. Journal of the American Ceramic Society, 2011, 94, 3335-3339.	1.9	40
135	Fabrication of highly crosslinked methacrylate-based polymer monoliths with well-defined macropores via living radical polymerization. Polymer, 2011, 52, 4644-4647.	1.8	40
136	Hierarchically porous monoliths prepared via solâ€“gel process accompanied by spinodal decomposition. Journal of Sol-Gel Science and Technology, 2020, 95, 530-550.	1.1	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 <i>via</i> coordination replication. Chemical Science, 2015, 6, 5938-5946.	3.7	39
139	Phase Separation in Solâ€“Gel Process of Alkoxideâ€Derived Silicaâ€Zirconia in the Presence of Polyethylene Oxide. Journal of the American Ceramic Society, 2001, 84, 1968-1976.	1.9	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.	4.0	38
142	Resilient, fire-retardant and mechanically strong polyimide-polyvinylpolymethylsiloxane composite aerogel prepared via stepwise chemical liquid deposition. Materials and Design, 2019, 183, 108096.	3.3	38
143	Sorption of Alcohol Vapors in a Disubstituted Polyacetylene. Polymer Journal, 1987, 19, 293-296.	1.3	37
144	Pore surface characteristics of macroporous silica gels prepared from polymer-containing solution. Journal of Non-Crystalline Solids, 1991, 134, 39-46.	1.5	37

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145	Detailed characterization of the kinetic performance of first and second generation silica monolithic columns for reversed-phase chromatography separations. Journal of Chromatography A, 2014, 1325, 72-82.	1.8	37
146	Selfâ€Assembly of Metalâ€“Organic Frameworks into Monolithic Materials with Highly Controlled Trimodal Pore Structures. Angewandte Chemie - International Edition, 2019, 58, 19047-19053.	7.2	37
147	Small-angle X-ray scattering study of nanopore evolution of macroporous silica gel by solvent exchange. Faraday Discussions, 1995, 101, 249.	1.6	36
148	Three-Dimensional Observation of Phase-Separated Silica-Based Gels Confined between Parallel Plates. Langmuir, 2003, 19, 5581-5585.	1.6	36
149	Fabrication of nitrogen-doped TiO2 monolith with well-defined macroporous and bicrystalline framework and its photocatalytic performance under visible light. Journal of the European Ceramic Society, 2014, 34, 809-816.	2.8	35
150	Cr3+-doped macroporous Al2O3 monoliths prepared by the metal-salt-derived solâ€“gel method. Journal of Non-Crystalline Solids, 2008, 354, 659-664.	1.5	34
151	Facile preparation of silver nanoparticles homogeneously immobilized in hierarchically monolithic silica using ethylene glycol as reductant. Dalton Transactions, 2014, 43, 12648.	1.6	34
152	In situ observation of phase separation processes in gelling alkoxy-derived silica system by light scattering method. Journal of Sol-Gel Science and Technology, 1994, 3, 169-188.	1.1	33
153	Three-dimensional observation of phase-separated siloxane solâ€“gel structures in confined spaces using laser scanning confocal microscopy (LSCM). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 241, 215-224.	2.3	33
154	Solâ€“gel preparation of Ni/TiO2 catalysts with bimodal pore structures. Applied Catalysis A: General, 2010, 383, 66-72.	2.2	33
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