

Kazuki Nakanishi

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353
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126
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366
ext. papers

20,012
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
353	Octadecylsilylated porous silica rods as separation media for reversed-phase liquid chromatography. <i>Analytical Chemistry</i> , 1996 , 68, 3498-501	7.8	821
352	Pore Structure Control of Silica Gels Based on Phase Separation. <i>Journal of Porous Materials</i> , 1997 , 4, 67-112	2.4	663
351	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		610
350	Monolithic silica columns for high-efficiency chromatographic separations. <i>Journal of Chromatography A</i> , 2002 , 965, 35-49	4.5	453
349	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	440
348	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	416
347	Sol-gel with phase separation. Hierarchically porous materials optimized for high-performance liquid chromatography separations. <i>Accounts of Chemical Research</i> , 2007 , 40, 863-73	24.3	392
346	Monolithic LC columns. <i>Analytical Chemistry</i> , 2001 , 73, 420A-429A	7.8	385
345	Facile synthesis of marshmallow-like macroporous gels usable under harsh conditions for the separation of oil and water. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1986-9	16.4	360
344	Phase Separation in Gelling Silica/Organic Polymer Solution: Systems Containing Poly(sodium styrenesulfonate). <i>Journal of the American Ceramic Society</i> , 1991 , 74, 2518-2530	3.8	338
343	Performance of a monolithic silica column in a capillary under pressure-driven and electrodriven conditions. <i>Analytical Chemistry</i> , 2000 , 72, 1275-80	7.8	304
342	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, 135-46	4.5	301
341	New Transparent Methylsilsesquioxane Aerogels and Xerogels with Improved Mechanical Properties. <i>Advanced Materials</i> , 2007 , 19, 1589-1593	24	294
340	A New Monolithic-Type HPLC Column For Fast Separations. <i>Journal of High Resolution Chromatography</i> , 2000 , 23, 93-99		278
339	Monolithic Silica Columns for HPLC, Micro-HPLC, and CEC. <i>Journal of High Resolution Chromatography</i> , 2000 , 23, 111-116		276
338	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	4.5	260
337	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	4.5	257

336	Phase separation in silica sol-gel system containing polyacrylic acid I. Gel formation behavior and effect of solvent composition. <i>Journal of Non-Crystalline Solids</i> , 1992 , 139, 1-13	3.9	257
335	Monolithic silica-based capillary reversed-phase liquid chromatography/electrospray mass spectrometry for plant metabolomics. <i>Analytical Chemistry</i> , 2003 , 75, 6737-40	7.8	236
334	Preparation of monolithic silica columns for high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2008 , 1191, 231-52	4.5	209
333	Monolithic silica columns for high-efficiency separations by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2002 , 960, 85-96	4.5	196
332	Controlled pore formation in organotrialkoxysilane-derived hybrids: from aerogels to hierarchically porous monoliths. <i>Chemical Society Reviews</i> , 2011 , 40, 754-70	58.5	176
331	Synthesis of Monolithic Al ₂ O ₃ with Well-Defined Macropores and Mesoporous Skeletons via the Sol-Gel Process Accompanied by Phase Separation. <i>Chemistry of Materials</i> , 2007 , 19, 3393-3398	9.6	176
330	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	9.6	174
329	Monolithic Periodic Mesoporous Silica with Well-Defined Macropores. <i>Chemistry of Materials</i> , 2005 , 17, 2114-2119	9.6	165
328	Hierarchically Porous Carbon Monoliths Comprising Ordered Mesoporous Nanorod Assemblies for High-Voltage Aqueous Supercapacitors. <i>Chemistry of Materials</i> , 2016 , 28, 3944-3950	9.6	160
327	Designing monolithic double-pore silica for high-speed liquid chromatography. <i>Journal of Chromatography A</i> , 1998 , 797, 133-137	4.5	154
326	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	9.6	144
325	Performance of monolithic silica capillary columns with increased phase ratios and small-sized domains. <i>Analytical Chemistry</i> , 2006 , 78, 7632-42	7.8	142
324	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		141
323	Polymethylsilsesquioxane-cellulose nanofiber biocomposite aerogels with high thermal insulation, bendability, and superhydrophobicity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9466-71	9.5	140
322	Spontaneous Formation of Hierarchical Macro/Mesoporous Ethane/Silica Monolith. <i>Chemistry of Materials</i> , 2004 , 16, 3652-3658	9.6	138
321	Transparent, Superflexible Doubly Cross-Linked Polyvinylpolymethylsiloxane Aerogel Superinsulators via Ambient Pressure Drying. <i>ACS Nano</i> , 2018 , 12, 521-532	16.7	134
320	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 ¹³		134
319	Simple and comprehensive two-dimensional reversed-phase HPLC using monolithic silica columns. <i>Analytical Chemistry</i> , 2004 , 76, 1273-81	7.8	132

3 ¹⁸	Process of formation of bone-like apatite layer on silica gel. <i>Journal of Materials Science: Materials in Medicine</i> , 1993 , 4, 127-131	4.5	132
3 ¹⁷	Induction and morphology of hydroxyapatite, precipitated from metastable simulated body fluids on sol-gel prepared silica. <i>Biomaterials</i> , 1993 , 14, 963-8	15.6	129
3 ¹⁶	Formation of Hierarchical Pore Structure in Silica Gel. <i>Journal of Sol-Gel Science and Technology</i> , 2000 , 17, 191-210	2.3	125
3 ¹⁵	Rigid Macroporous Poly(divinylbenzene) Monoliths with a Well-Defined Bicontinuous Morphology Prepared by Living Radical Polymerization. <i>Advanced Materials</i> , 2006 , 18, 2407-2411	24	121
3 ¹⁴	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	5.1	116
3 ¹³	Organic/inorganic hybrid poly(silsesquioxane) monoliths with controlled macro- and mesopores. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3776		114
3 ¹²	Hierarchically Porous Li ₄ Ti ₅ 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	21.8	111
3 ¹¹	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	3.9	111
3 ¹⁰	Silica ROD™ A new challenge in fast high-performance liquid chromatography separations. <i>TrAC - Trends in Analytical Chemistry</i> , 1998 , 17, 50-53	14.6	110
3 ⁰⁹	Performance of an octadecylsilylated continuous porous silica column in polypeptide separations. <i>Journal of Chromatography A</i> , 1998 , 828, 83-90	4.5	109
3 ⁰⁸	Structural formation of hybrid siloxane-based polymer monolith in confined spaces. <i>Journal of Separation Science</i> , 2004 , 27, 874-86	3.4	106
3 ⁰⁷	Tailoring Mesopores in Monolithic Macroporous Silica for HPLC. <i>Journal of High Resolution Chromatography</i> , 2000 , 23, 106-110		103
3 ⁰⁶	A superamphiphobic macroporous silicone monolith with marshmallow-like flexibility. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10788-91	16.4	101
3 ⁰⁵	Bonelike apatite formation on ethylene-vinyl alcohol copolymer modified with silane coupling agent and calcium silicate solutions. <i>Biomaterials</i> , 2003 , 24, 1729-35	15.6	100
3 ⁰⁴	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	9.6	99
3 ⁰³	Elastic organic/inorganic hybrid aerogels and xerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 48, 172-181	2.3	98
3 ⁰²	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, 221-9		97
3 ⁰¹	Development of a monolithic silica extraction tip for the analysis of proteins. <i>Journal of Chromatography A</i> , 2004 , 1043, 19-25	4.5	94

300	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, 7375-83	4.5	92
299	Monolithic silica column for in-tube solid-phase microextraction coupled to high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2003 , 985, 351-7	4.5	90
298	Selective preparation of macroporous monoliths of conductive titanium oxides Ti(n)O(2n-1) (n = 2, 3, 4, 6). <i>Journal of the American Chemical Society</i> , 2012 , 134, 10894-8	16.4	88
297	New flexible aerogels and xerogels derived from methyltrimethoxysilane/dimethyldimethoxysilane co-precursors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17077		88
296	Versatile Double-Cross-Linking Approach to Transparent, Machinable, Supercompressible, Highly Bendable Aerogel Thermal Superinsulators. <i>Chemistry of Materials</i> , 2018 , 30, 2759-2770	9.6	86
295	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	84
294	Hard Carbon Anodes for Na-Ion Batteries: Toward a Practical Use. <i>ChemElectroChem</i> , 2015 , 2, 1917-1920	4.3	83
293	Facile Preparation of Hierarchically Porous TiO ₂ Monoliths. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3110-3115	3.8	82
292	Structural characterization of hierarchically porous alumina aerogel and xerogel monoliths. <i>Journal of Colloid and Interface Science</i> , 2009 , 338, 506-13	9.3	82
291	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> , 2005 , 81, 2670-2676	3.8	81
290	Chromatographic Properties of Miniaturized Silica Rod Columns. <i>Journal of High Resolution Chromatography</i> , 1998 , 21, 477-479		80
289	Apatite formation on silica gel in simulated body fluid: its dependence on structures of silica gels prepared in different media. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 33, 145-51		80
288	Facile Synthesis of Macroporous Cross-Linked Methacrylate Gels by Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2008 , 41, 7186-7193	5.5	79
287	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	9.6	79
286	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	9.6	77
285	Simple 2D-HPLC using a monolithic silica column for peptide separation. <i>Journal of Separation Science</i> , 2004 , 27, 897-904	3.4	71
284	Superflexible Multifunctional Polyvinylpolydimethylsiloxane-Based Aerogels as Efficient Absorbents, Thermal Superinsulators, and Strain Sensors. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9722-9727	16.4	70
283	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, 905-11	3.4	70

282	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	9.6	68
281	Multiscale Templating of Siloxane Gels via Polymerization-Induced Phase Separation. <i>Chemistry of Materials</i> , 2008 , 20, 1108-1115	9.6	67
280	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	4.5	67
279	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, 1988-95	3.4	66
278	Transparent, Highly Insulating Polyethyl- and Polyvinylsilsesquioxane Aerogels: Mechanical Improvements by Vulcanization for Ambient Pressure Drying. <i>Chemistry of Materials</i> , 2016 , 28, 6860-6868	8.6	66
277	Monolithic silica columns with chemically bonded beta-cyclodextrin as a stationary phase for enantiomer separations of chiral pharmaceuticals. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 892-901	4.1	64
276	Pore Formation in Poly(divinylbenzene) Networks Derived from Organotellurium-Mediated Living Radical Polymerization. <i>Macromolecules</i> , 2009 , 42, 1270-1277	5.5	62
275	Fabrication of activated carbons with well-defined macropores derived from sulfonated poly(divinylbenzene) networks. <i>Carbon</i> , 2010 , 48, 1757-1766	10.4	62
274	Facile Synthesis of Marshmallow-like Macroporous Gels Usable under Harsh Conditions for the Separation of Oil and Water. <i>Angewandte Chemie</i> , 2013 , 125, 2040-2043	3.6	60
273	Sol-Gel Process of Oxides Accompanied by Phase Separation. <i>Bulletin of the Chemical Society of Japan</i> , 2006 , 79, 673-691	5.1	60
272	Silicone-Based Organic-Inorganic Hybrid Aerogels and Xerogels. <i>Chemistry - A European Journal</i> , 2017 , 23, 5176-5187	4.8	58
271	Aggregation Behavior of Alkoxide-Derived Silica in Sol-Gel Process in Presence of Poly(ethylene oxide). <i>Journal of Sol-Gel Science and Technology</i> , 2000 , 17, 7-18	2.3	58
270	Surface functionalization of silica by Si-H activation of hydrosilanes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11570-3	16.4	57
269	High-throughput protein digestion by trypsin-immobilized monolithic silica with pipette-tip formula. <i>Journal of Proteomics</i> , 2007 , 70, 57-62		57
268	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, 3511-4	5.8	56
267	Functionalization of hierarchically porous silica monoliths with polyethyleneimine (PEI) for CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2017 , 245, 51-57	5.3	55
266	Transition from transparent aerogels to hierarchically porous monoliths in polymethylsilsesquioxane sol-gel system. <i>Journal of Colloid and Interface Science</i> , 2011 , 357, 336-44	9.3	55
265	Surface interaction of well-defined, concentrated poly(2-hydroxyethyl methacrylate) brushes with proteins. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 4795-4803	2.5	54

264	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	9.6	53
263	Rigid crosslinked polyacrylamide monoliths with well-defined macropores synthesized by living polymerization. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 986-90	4.8	53
262	Phase Separation in Silica Sol-Gel System Containing Poly(ethylene oxide) II. Effects of Molecular Weight and Temperature. <i>Bulletin of the Chemical Society of Japan</i> , 1997 , 70, 587-592	5.1	53
261	Apatite formation on silica gel in simulated body fluid: effects of structural modification with solvent-exchange. <i>Journal of Materials Science: Materials in Medicine</i> , 1998 , 9, 279-84	4.5	53
260	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	9.6	52
259	Ultralow-Density, Transparent, Superamphiphobic Boehmite Nanofiber Aerogels and Their Alumina Derivatives. <i>Chemistry of Materials</i> , 2015 , 27, 3-5	9.6	51
258	Double pore silica gel monolith applied to liquid chromatography. <i>Journal of Sol-Gel Science and Technology</i> , 1997 , 8, 547-552	2.3	51
257	Polymerization-induced phase separation in silica sol-gel systems containing formamide. <i>Journal of Sol-Gel Science and Technology</i> , 1993 , 1, 35-46	2.3	51
256	Formation of ordered macropores and templated nanopores in silica sol-gel system incorporated with EO ₂ PO ₂ EO triblock copolymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 187-188, 117-122	5.1	49
255	Chromatographic characterization of macroporous monolithic silica prepared via sol-gel process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 187-188, 273-279	5.1	49
254	Layered double hydroxide (LDH)-based monolith with interconnected hierarchical channels: enhanced sorption affinity for anionic species. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7702	13	48
253	Sol-gel modification of silicone to induce apatite-forming ability. <i>Biomaterials</i> , 1999 , 20, 79-84	15.6	48
252	Apatite-forming ability of silicate ion dissolved from silica gels. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 32, 375-81		47
251	Studies on electrochemical sodium storage into hard carbons with binder-free monolithic electrodes. <i>Journal of Power Sources</i> , 2016 , 318, 41-48	8.9	47
250	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	3.4	46
249	Hierarchically Porous Monoliths Based on N-Doped Reduced Titanium Oxides and Their Electric and Electrochemical Properties. <i>Chemistry of Materials</i> , 2013 , 25, 3504-3512	9.6	45
248	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	45
247	Structure and properties of polymethylsilsesquioxane aerogels synthesized with surfactant n-hexadecyltrimethylammonium chloride. <i>Microporous and Mesoporous Materials</i> , 2012 , 158, 247-252	5.3	43

246	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	6	43
245	Structural study of mesoporous titania and titanium tetracarboxylic acid complex prepared from titanium alkoxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 3161-3168		43
244	Short communication performance of octadecylsilylated monolithic silica capillary columns of 530 microm inner diameter in HPLC. <i>Journal of Separation Science</i> , 2006 , 29, 2471-7	3-4	43
243	Strong light scattering in macroporous TiO ₂ monoliths induced by phase separation. <i>Applied Physics Letters</i> , 2004 , 85, 5595-5597	3-4	43
242	Synthesis of robust hierarchically porous zirconium phosphate monolith for efficient ion adsorption. <i>New Journal of Chemistry</i> , 2015 , 39, 2444-2450	3.6	42
241	Impact of Electrolyte on Pseudocapacitance and Stability of Porous Titanium Nitride (TiN) Monolithic Electrode. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A77-A85	3.9	42
240	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	15.6	42
239	Three-Dimensional Structure of a Sintered Macroporous Silica Gel. <i>Langmuir</i> , 2001 , 17, 619-625	4	42
238	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	9.5	41
237	A New Route to Monolithic Macroporous SiC/C Composites from Biphenylene-bridged Polysilsesquioxane Gels. <i>Chemistry of Materials</i> , 2010 , 22, 2541-2547	9.6	41
236	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	41
235	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	6	40
234	Synthesis of silver nanoparticles confined in hierarchically porous monolithic silica: a new function in aromatic hydrocarbon separations. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2118-25	9.5	40
233	Microanalysis for MDR1 ATPase by high-performance liquid chromatography with a titanium dioxide column. <i>Analytical Biochemistry</i> , 2004 , 326, 262-6	3.1	40
232	Supramolecular Templating of Mesopores in Phase-Separating Silica Sol-Gels Incorporated with Cationic Surfactant. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 567-570	2.3	40
231	Apatite formation on ethylene-vinyl alcohol copolymer modified with silanol groups. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 47, 367-73		39
230	Mesoscopic superstructures of flexible porous coordination polymers synthesized coordination replication. <i>Chemical Science</i> , 2015 , 6, 5938-5946	9.4	38
229	Transparent Ethylene-Bridged Polymethylsiloxane Aerogels and Xerogels with Improved Bending Flexibility. <i>Langmuir</i> , 2016 , 32, 13427-13434	4	37

228	Sol-gel synthesis, porous structure, and mechanical property of polymethylsilsesquioxane aerogels. <i>Journal of the Ceramic Society of Japan</i> , 2009 , 117, 1333-1338	1	37
227	Effects of aging and solvent exchange on pore structure of silica gels with interconnected macropores. <i>Journal of Non-Crystalline Solids</i> , 1995 , 189, 66-76	3.9	37
226	Three-Dimensional Observation of Phase-Separated Silica-Based Gels Confined between Parallel Plates. <i>Langmuir</i> , 2003 , 19, 5581-5585	4	36
225	Porous Gels Made by Phase Separation: Recent Progress and Future Directions. <i>Journal of Sol-Gel Science and Technology</i> , 2000 , 19, 65-70	2.3	36
224	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	3.8	35
223	Fabrication of highly crosslinked methacrylate-based polymer monoliths with well-defined macropores via living radical polymerization. <i>Polymer</i> , 2011 , 52, 4644-4647	3.9	35
222	Permeation of gases in poly(1-(trimethylsilyl)-1-propyne).. <i>Kobunshi Ronbunshu</i> , 1986 , 43, 747-753	0	35
221	Detailed characterization of the kinetic performance of first and second generation silica monolithic columns for reversed-phase chromatography separations. <i>Journal of Chromatography A</i> , 2014 , 1325, 72-82	4.5	34
220	Preparation of Hierarchically Porous Nanocrystalline CaTiO ₃ , SrTiO ₃ and BaTiO ₃ Perovskite Monoliths. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3335-3339	3.8	34
219	Designing Double Pore Structure in Alkoxy-Derived Silica Incorporated with Nonionic Surfactant. <i>Journal of Porous Materials</i> , 1998 , 5, 103-110	2.4	34
218	Superelastic Multifunctional Aminosilane-Crosslinked Graphene Aerogels for High Thermal Insulation, Three-Component Separation, and Strain/Pressure-Sensing Arrays. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43533-43542	9.5	33
217	Facile preparation of silver nanoparticles homogeneously immobilized in hierarchically monolithic silica using ethylene glycol as reductant. <i>Dalton Transactions</i> , 2014 , 43, 12648-56	4.3	33
216	New monolithic capillary columns with well-defined macropores based on poly(styrene-co-divinylbenzene). <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2343-7	9.5	33
215	Fabrication of macroporous silicon carbide ceramics by intramolecular carbothermal reduction of phenyl-bridged polysilsesquioxane. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7716		33
214	Phase Separation in Sol-Gel Process of Alkoxide-Derived Silica-Zirconia in the Presence of Polyethylene Oxide. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1968-1976	3.8	33
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212	Dynamic spring-back behavior in evaporative drying of polymethylsilsesquioxane monolithic gels for low-density transparent thermal superinsulators. <i>Journal of Non-Crystalline Solids</i> , 2016 , 434, 115-119	3.9	32
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