Sol-gel transition in simple silicates II

Journal of Non-Crystalline Solids
63, 45-59
DOI: 10.1016/0022-3093(84)90385-5

Citation Report

#	Article	IF	Citations
1	The Effect of Hydrolysis Conditions on the Structure and Growth of Silicate Polymers. Materials Research Society Symposia Proceedings, 1984, 32, 15.	0.1	66
2	Fluorescence of europium(III) trapped in silica gel-glass as a probe for cation binding and for changes in cage symmetry during gel dehydration. Chemical Physics Letters, 1984, 109, 593-597.	1.2	163
3	Characterization of the SiO2-gel glass-forming process by high resolution 1H NMR in solids. Colloids and Surfaces, 1984, 12, 53-58.	0.9	6
4	Structure of Soluble Silicates. Materials Research Society Symposia Proceedings, 1984, 32, 1.	0.1	45
5	A Comparison Between the Densification Kinetics of Colloidal and Polymeric Silica Gels. Materials Research Society Symposia Proceedings, 1984, 32, 25.	0.1	29
6	Preparation of glass by sintering. Journal of Materials Science, 1985, 20, 4259-4297.	1.7	217
7	Electron microscopy of elastomers containing in-situ precipitated silica. Polymer, 1985, 26, 2069-2072.	1.8	58
8	Defects in Gel-Derived Glasses. Materials Research Society Symposia Proceedings, 1985, 61, 387.	0.1	22
9	Sol â†' gel â†' glass: I. Gelation and gel structure. Journal of Non-Crystalline Solids, 1985, 70, 301-322.	1.5	513
10	Structural studies of amorphous solids by small-angle neutron scattering. Journal of Non-Crystalline Solids, 1985, 76, 43-60.	1.5	12
11	The effect of the H2O/TEOS ratio on the structure of gels derived by the acid catalysed hydrolysis of tetraethoxysilane. Journal of Non-Crystalline Solids, 1985, 72, 139-157.	1.5	75
12	Structural evolution during the gel to glass conversion. Journal of Non-Crystalline Solids, 1985, 71, 171-185.	1.5	86
13	Alkoxide and colloidal silica gels and glasses, a comparison. Journal of Non-Crystalline Solids, 1985, 71, 187-193.	1.5	15
14	A comparative Raman study of the structures of conventional and gel-derived glasses in the SiO2î—¸GeO2 system. Journal of Non-Crystalline Solids, 1985, 71, 317-325.	1.5	38
15	New type of non-crystalline solids between inorganic and organic materials. Journal of Non-Crystalline Solids, 1985, 73, 681-691.	1.5	514
16	Raman study of the sol to gel transformation under normal and high pressure. Materials Letters, 1985, 3, 124-126.	1.3	22
17	Sol-Gel Processing of Silicates. Annual Review of Materials Research, 1985, 15, 227-248.	5.5	263
18	Effect of formamide additive on the chemistry of silica sol-gels. Journal of Non-Crystalline Solids, 1986, 79, 177-194.	1.5	125

#	Article	IF	Citations
19	Characterization of various stages of the sol-gel process. Journal of Non-Crystalline Solids, 1986, 82, 57-68.	1.5	103
20	Structural considerations about SiO2 glasses prepared by sol-gel. Journal of Non-Crystalline Solids, 1986, 82, 69-77.	1.5	256
21	Sol-gel transition in simple silicates. Journal of Non-Crystalline Solids, 1986, 82, 117-126.	1.5	142
22	Chain-like structure of ultra-low density SiO2 sol-gel glass observed by TEM. Journal of Non-Crystalline Solids, 1986, 82, 148-153.	1.5	32
23	Preparation of dried monolithic SiO2 gel bodies by an autoclave process. Journal of Non-Crystalline Solids, 1986, 82, 265-270.	1.5	60
24	Sol-gel chemistry studied by 1H and 29Si nuclear magnetic resonance. Journal of Non-Crystalline Solids, 1986, 83, 353-374.	1.5	205
25	Hydrolytic polycondensation of Si(OC2H5)4 and effect of reaction parameters. Journal of Non-Crystalline Solids, 1986, 83, 375-390.	1.5	59
26	Gas chromatography study of the acid catalyzed hydrolysis of tetraethylorthosilicate [Si(OC2H5)4]. Journal of Non-Crystalline Solids, 1986, 81, 221-226.	1.5	14
27	Sol-gel processing of silica. Journal of Non-Crystalline Solids, 1986, 81, 227-237.	1.5	148
28	Study of polymerization processes in acid and base catalyzed silica sol-gels. Journal of Non-Crystalline Solids, 1986, 81, 365-379.	1.5	115
29	Low-Frequency Raman Scattering from Fractal Vibrational Modes in a Silica Gel. Physical Review Letters, 1986, 57, 2391-2394.	2.9	113
30	A Preliminary Investigation of a Novel Series of Silica Gels. Drug Development and Industrial Pharmacy, 1986, 12, 2313-2324.	0.9	0
31	Sol-gel processing of silica. Journal of Non-Crystalline Solids, 1986, 87, 185-198.	1.5	504
32	Structural changes of silica xerogels during low temperature dehydration. Journal of Non-Crystalline Solids, 1986, 88, 114-130.	1.5	186
33	STRUCTURE OF RANDOM SILICATES: POLYMERS, COLLOIDS, AND POROUS SOLIDS*. , 1986, , 39-45.		33
34	High field 1H NMR Studies of Sol-Gel Kinetics. Materials Research Society Symposia Proceedings, 1986, 73, 157.	0.1	22
35	Electron-Spin Resonance and other Spectroscopies used in Characterizing Sol-Gel Processing. Materials Research Society Symposia Proceedings, 1986, 73, 461.	0.1	1
36	29Si NMR, Sec and Ftir Studies of The Hydrolysis and Condensation of Si(OC2H5)4 and Si2O(OC2H5)6. Materials Research Society Symposia Proceedings, 1986, 73, 585.	0.1	12

#	Article	IF	Citations
37	The Role of Chemical Additives in Sol-Gel Processing. Materials Research Society Symposia Proceedings, 1986, 73, 35.	0.1	9
38	The gel route to transition metal oxides. Journal of Solid State Chemistry, 1986, 64, 322-330.	1.4	68
39	Comment on "Dehydration of Gels and Glasses in the Systems B2O3-SiO2 and ZrO2-SiO2 Prepared by the Sol-Gel Process from Metal Alkoxides". Journal of the American Ceramic Society, 1986, 69, C-12-C-14.	1.9	10
40	Silica membranes by the solâ€"gel process. Journal of Colloid and Interface Science, 1986, 109, 40-45.	5.0	20
41	Saxs Study of Silica Sols and Gels. Materials Research Society Symposia Proceedings, 1986, 73, 289.	0.1	3
42	Kinetic Investigations of Alkoxysilane Sol-Gel Processing. Materials Research Society Symposia Proceedings, 1986, 73, 173.	0.1	3
43	Sol-Gel Glasses and their Future Applications. Transactions of the Indian Ceramic Society, 1987, 46, 1-11.	0.4	17
44	Brillouin-scattering measurements of phonon-fracton crossover in silica aerogels. Physical Review Letters, 1987, 58, 128-131.	2.9	199
45	Ceramics by the Solution-Sol-Gel Route. Science, 1987, 238, 1664-1669.	6.0	252
46	Structural Evolution of Sol-Gel Glasses. Journal of the Ceramic Association Japan, 1987, 95, 31-54.	0.2	24
47	Formation of Highly Porous Opaque Gel from Alkoxysilane Solutions. Chemistry Letters, 1987, 16, 1791-1794.	0.7	14
48	Characterization of the Effect of Formamide Additive on the Silica Sol-Gel-Glass Forming Process by 1H NMR*. Zeitschrift Fur Physikalische Chemie, 1987, 153, 27-36.	1.4	12
50	NMR study of the sol/gel polymerization. Journal of Non-Crystalline Solids, 1987, 89, 345-360.	1.5	319
51	Studies of the hydrolysis and condensation of tetraethylorthosilicate by multinuclear (1h, 17o, 29si) nmr spectroscopy. Journal of Non-Crystalline Solids, 1987, 91, 402-415.	1.5	47
52	X-ray diffraction investigations of silica gel structures. Journal of Non-Crystalline Solids, 1987, 91, 122-136.	1.5	62
53	Silica gel formation followed by dynamic shear experiments. Materials Letters, 1987, 5, 140-142.	1.3	4
54	Spatial patterns formed by growing TEOS polymers. Journal De Physique, 1987, 48, 2131-2137.	1.8	44
55	Carbene Rearrangements, XXII Labelling Studies of the Reaction of 8,8â€Dibromobicyclo[5.1.0]octaâ€2,4â€diene with Methyllithium. Chemische Berichte, 1987, 120, 501-506.	0.2	12

#	Article	IF	Citations
56	Influence of gel microstructure on the gel-glass transition. Ceramics International, 1987, 13, 145-149.	2.3	3
57	Study of Tetraethyl Orthosilicate Hydrolysis by in Situ Generation of Water. Journal of the American Ceramic Society, 1987, 70, C-298-C-300.	1.9	13
58	Characterization and study of Na2O-B2O3-SiO2 glasses prepared by the sol-gel method. Journal of Materials Science, 1988, 23, 2142-2152.	1.7	24
59	An NMR technique for the analysis of pore structure: Application to mesopores and micropores. Journal of Colloid and Interface Science, 1988, 124, 186-198.	5.0	60
60	Dynamics of growth of silica particles from ammonia-catalyzed hydrolysis of tetra-ethyl-orthosilicate. Journal of Colloid and Interface Science, 1988, 124, 252-261.	5.0	273
61	The dependence of the gelation time on the hydrolysis time in a two-step SiO2 sol-gel process. Journal of Non-Crystalline Solids, 1988, 105, 207-213.	1.5	87
62	Effect of formamide additive on the chemistry of silica sol-gels II. Gel structure. Journal of Non-Crystalline Solids, 1988, 105, 223-231.	1.5	94
63	Novel processing of silica hydrosols and gels. Journal of Non-Crystalline Solids, 1988, 101, 123-126.	1.5	32
64	29Siî—¸MASî—¸NMR investigation on silica glass prepared by the drying control chemical additives method. Journal of Non-Crystalline Solids, 1988, 99, 371-378.	1.5	22
65	Water consumption during the early stages of the sol-gel tetramethylorthosilicate polymerization as probed by excited state proton transfer. Journal of Non-Crystalline Solids, 1988, 99, 379-386.	1.5	86
66	Temperature dependence of the gelation of silicon alkoxides. Journal of Non-Crystalline Solids, 1988, 99, 129-139.	1.5	50
67	Precursors for sol-gel preparations. Journal of Non-Crystalline Solids, 1988, 100, 16-30.	1.5	190
68	Hydrolysis and condensation of silicates: Effects on structure. Journal of Non-Crystalline Solids, 1988, 100, 31-50.	1.5	1,058
69	Gel to glass conversion: Densification kinetics and controlling mechanisms. Journal of Non-Crystalline Solids, 1988, 100, 115-141.	1.5	29
70	The structural evolution of alkoxy-derived gel during drying. Journal of Non-Crystalline Solids, 1988, 100, 215-219.	1.5	22
71	The preparation of boron-doped silicon carbide powder by the carbothermal reduction of oxides derived from the hydrolyzed methyltriethoxysilane. Journal of Non-Crystalline Solids, 1988, 100, 542-546.	1.5	12
72	Sol-gel kinetics. Journal of Non-Crystalline Solids, 1988, 104, 112-122.	1.5	85
73	The NMR studies of the P2O5î—¸SiO2 sol and gel chemistry. Journal of Non-Crystalline Solids, 1988, 104, 129-134.	1.5	51

#	Article	IF	Citations
74	Sol-gel chemistry of transition metal oxides. Progress in Solid State Chemistry, 1988, 18, 259-341.	3.9	2,003
75	Sol-gel kinetics III. Test of the statistical reaction model. Journal of Non-Crystalline Solids, 1988, 107, 35-40.	1.5	69
76	Molecular Growth Pathways in Silica Sol-Gel Polymerization. Materials Research Society Symposia Proceedings, 1988, 121, 1.	0.1	22
77	Sol-Gel Kinetics: 29Si NMR and a Statistical Reaction Model. Materials Research Society Symposia Proceedings, 1988, 121, 25.	0.1	8
78	Ellipsometric Imaging of Drying Sol-Gel Films. Materials Research Society Symposia Proceedings, 1988, 121, 731.	0.1	13
79	Formation and Characterization of Inorganic Membranes from Zeolite-Silica Microcomposites. Materials Research Society Symposia Proceedings, 1988, 121, 761.	0.1	5
80	Polymetallic Alkoxides - Precursors for Ceramics. Materials Research Society Symposia Proceedings, 1988, 121, 81.	0.1	20
81	Ultrasonic Characterization of SOL/GEL Processing. Materials Research Society Symposia Proceedings, 1988, 142, 295.	0.1	0
82	Transesterification Reaction of Tetraethoxysilane and Butyl Alcohols. Bulletin of the Chemical Society of Japan, 1988, 61, 4087-4092.	2.0	13
83	Preparation of glasses and ceramics by the sol-gel method.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1988, 1988, 243-252.	0.1	2
85	The pore morphology of fluoride catalyzed xerogels. Journal of Materials Research, 1989, 4, 693-697.	1.2	10
86	Molecular Sieve Films From Zeolite-Silica Microcomposites. Studies in Surface Science and Catalysis, 1989, 49, 887-896.	1.5	17
87	Saxs study of silica gel formation from aqueous silicate solutions. Catalysis Letters, 1989, 3, 209-215.	1.4	17
88	Mullite/Alumina Particulate Composites by Infiltration Processing. Journal of the American Ceramic Society, 1989, 72, 2043-2048.	1.9	50
89	Measurement of permeability II. Silica gel. Journal of Non-Crystalline Solids, 1989, 113, 119-129.	1.5	40
90	The effect of formamide on silica sol-gel processes. Journal of Non-Crystalline Solids, 1989, 109, 141-152.	1.5	54
91	A two-step silica sol-gel process investigated with static and dynamic light-scattering measurements. Journal of Non-Crystalline Solids, 1989, 109, 153-163.	1.5	32
92	Effect of shrinkage on the modulus of silica gel. Journal of Non-Crystalline Solids, 1989, 109, 183-190.	1.5	87

#	Article	IF	Citations
93	Synthesis, characterization and activity of Ru/SiO2 catalysts prepared by the sol-gel method. Journal of Non-Crystalline Solids, 1989, 110, 170-174.	1.5	40
94	Hydrolysis-condensation reactions in the acid step of a two-step silica sol-gel process, investigated with 29Si NMR at â¯75Â°C. Journal of Non-Crystalline Solids, 1989, 108, 249-259.	1.5	39
95	Hydrolysis and polycondensation of Si(OEt)4 II. Identification of chemical species in condensed phase by mass spectrometry with fast atom bombardment. Journal of Non-Crystalline Solids, 1989, 108, 315-322.	1.5	18
96	Study of the formation of silicoaluminates by the sol-gel method, by means of IR, DTA and TGA. Journal of Non-Crystalline Solids, 1989, 108, 45-48.	1.5	30
97	Hydrolysis-condensation reactions of silica gels during autoclave drying. Journal of Non-Crystalline Solids, 1989, 109, 1-8.	1.5	34
98	High-pressure raman study of the hydrolysis reaction in tetramethylorthosilicate (TMOS). Journal of Non-Crystalline Solids, 1989, 109, 9-17.	1.5	34
99	Sol-gel process kinetics for Si(OEt)4. Journal of Non-Crystalline Solids, 1989, 112, 449-453.	1.5	14
100	A SANS study of the effect of catalyst on the growth process of silica gels. Journal of Non-Crystalline Solids, 1989, 108, 137-142.	1.5	27
101	Sol-Gel Networks: Fundamental Investigations of the Chemistry of Sol-Gel Silicate Glasses and Poly(Siloxane) Toughened Silicates. Materials Research Society Symposia Proceedings, 1989, 155, 137.	0.1	0
102	Catalytic Control of SiO2 Sol-Gel Kinetics - a Mechanistic Study of Bases. Materials Research Society Symposia Proceedings, 1990, 180, 263.	0.1	1
103	Mechanical Properties of Silica Alcogels and Aerogels.. Materials Research Society Symposia Proceedings, 1990, 180, 1087.	0.1	8
104	Sol-Gel Thin Film Electronic Properties. Materials Research Society Symposia Proceedings, 1990, 180, 413.	0.1	3
105	Base-Catalyzed Silica Gels: Structure and Chemistry. Materials Research Society Symposia Proceedings, 1990, 180, 223.	0.1	1
106	Fluorescence Probes of Pyrene and Pyrene-3-carboxaldehyde for the Solâ€“Gel Process. Bulletin of the Chemical Society of Japan, 1990, 63, 11-16.	2.0	37
107	Porous optical composites. , 1990, , .		20
108	Deposition of high quality Sol-Gel oxides on silicon. Journal of Electronic Materials, 1990, 19, 425-428.	1.0	19
109	Photoluminescence in chemically polymerized SiO₂ and Al₂O₃â€“SiO₂ systems. Journal of Materials Research, 1990, 5, 1157-1158.	1.2	53
110	Gel synthesis of magnesium silicates: A 29Si magic angle spinning NMR study. Physics and Chemistry of Minerals, 1990, 17, 1-8.	0.3	23

#	Article	IF	Citations
111	Supersaturation by gelling: Gel-grown single crystals of metal(II)carboxylates. Crystal Research and Technology, 1990, 25, 391-396.	0.6	5
112	Inorganic and Organic Aerogels. MRS Bulletin, 1990, 15, 30-36.	1.7	2
113	Structural Evolution during Consolidation. , 1990, , 514-615.		15
114	Gelation. , 1990, , 302-355.		4
115	Aging of Gels. , 1990, , 356-405.		8
116	Hydrolysis and Condensation II. , 1990, , 96-233.		27
117	A New Synthetic Route to Organic Aerogels. Materials Research Society Symposia Proceedings, 1990, 180, 791.	0.1	14
118	Effect of aging and pH on the modulus of aerogels. Journal of Non-Crystalline Solids, 1990, 121, 202-205.	1.5	61
119	Surface structure and chemistry of high surface area silica gels. Journal of Non-Crystalline Solids, 1990, 120, 26-33.	1.5	100
120	WAXS- and SAXS-investigations of structure formation in alcoholic SiO2 solutions. Journal of Non-Crystalline Solids, 1990, 119, 1-13.	1.5	33
121	Organic aerogels: microstructural dependence of mechanical properties in compression. Journal of Non-Crystalline Solids, 1990, 125, 67-75.	1.5	248
122	Mesh size of tmos gels in water. Journal of Non-Crystalline Solids, 1990, 119, 121-131.	1.5	28
123	IR study on the structural evolution of sol-gel derived SiO2 gels in the early stage of conversion to glasses. Journal of Non-Crystalline Solids, 1990, 126, 68-78.	1.5	236
124	Relation between the acidity and reactivity of a TEOS, ethanol and water mixture. Journal of Non-Crystalline Solids, 1990, 122, 171-182.	1.5	49
125	Study of Sol-Gel Chemical Reaction Kinetics by NMR. Annual Review of Materials Research, 1991, 21, 491-513.	5.5	60
126	Solâ€gel silicate thinâ€film electronic properties. Journal of Applied Physics, 1991, 69, 4404-4408.	1.1	24
127	Hydrolysis-condensation processes of the tetra-alkoxysilanes TPOS, TEOS and TMOS in some alcoholic solvents. Journal of Non-Crystalline Solids, 1991, 134, 1-13.	1.5	106
128	Experimental evidence for two fundamentally different Eâ€² precursors in amorphous silicon dioxide. Journal of Non-Crystalline Solids, 1991, 136, 151-162.	1.5	46

#	Article	IF	Citations
129	Structures and properties of silica gels prepared by the solâ€"gel method. Journal of Non-Crystalline Solids, 1991, 130, 8-17.	1.5	103
130	Raman and GC-MS study of the initial stage of the hydrolysis of tetramethoxysilane in acid and base catalyzed sol-gel processes. Journal of Non-Crystalline Solids, 1991, 135, 22-28.	1.5	16
131	Thermal expansion of gels: a novel method for measuring permeability. Journal of Non-Crystalline Solids, 1991, 130, 157-170.	1.5	73
132	The influence of the addition of alkyl-substituted ethoxysilane on the hydrolysisâ€"condensation process of TEOS. Journal of Non-Crystalline Solids, 1991, 128, 231-242.	1.5	84
133	Sol-Gel Thin Film Formation. Journal of the Ceramic Society of Japan, 1991, 99, 862-877.	1.3	93
134	Small-Angle X-Ray Scattering Study on Solâ€"Gel Transition of Mixtures of Colloidal Silica and Organic Polymer. Bulletin of the Chemical Society of Japan, 1991, 64, 1283-1288.	2.0	10
135	Determination of Spatially Resolved Pore Size Information. Studies in Surface Science and Catalysis, 1991, 62, 709-716.	1.5	2
136	Preparation of ZrSiO₄ Powders by Sol-Gel Process (Part 3). Journal of the Ceramic Society of Japan, 1991, 99, 42-46.	1.3	9
137	Fundamentals of sol-gel dip coating. Thin Solid Films, 1991, 201, 97-108.	0.8	543
138	Studies of the kinetics of the precipitation of uniform silica particles through the hydrolysis and condensation of silicon alkoxides. Journal of Colloid and Interface Science, 1991, 142, 1-18.	5.0	407
139	Synthesis of magnesium oxide by the sol-gel method: Effect of the pH on the surface hydroxylation. Journal of Catalysis, 1991, 127, 75-85.	3.1	81
140	Phase Separation in Gelling Silica-Organic Polymer Solution: Systems Containing Poly(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.9	385
141	SAXS investigations on organic aerogels. Journal of Applied Crystallography, 1991, 24, 771-776.	1.9	28
142	Development of anti-glare coating for high resolution color display tubes. , 0, , .		0
143	Sol-Gel Coatings. , 1991, , 501-522.		8
144	Analysis of depth profiles of sol-gel derived multilayer coatings by Rutherford backscattering spectrometry and by cross-sectional transmission electron microscopy¹. Journal of Materials Research, 1991, 6, 835-839.	1.2	5
145	Preparation and Characterization of Microporous Sol-Gel Derived Ceramic Membranes for GAS Separation Applications. Materials Research Society Symposia Proceedings, 1992, 271, 505.	0.1	5
146	Sol-Gel Films With Tailored Microstructures. Materials Research Society Symposia Proceedings, 1992, 271, 541.	0.1	9

#	Article	IF	Citations
147	Amorphous Sol-Gel Insulating Films. Materials Research Society Symposia Proceedings, 1992, 284, 469.	0.1	5
148	Kinetics of bicomponent sol-gel processes. Journal of Non-Crystalline Solids, 1992, 142, 1-17.	1.5	22
149	Bending of gel beams: method for characterizing elastic properties and permeability. Journal of Non-Crystalline Solids, 1992, 142, 18-35.	1.5	119
150	Pore structure evolution in silica gel during aging/drying I. Temporal and thermal aging. Journal of Non-Crystalline Solids, 1992, 142, 189-196.	1.5	110
151	The effect of TEOG on the hydrolysis-condensation mechanism of a two-step sol-gel process of TEOS. Journal of Non-Crystalline Solids, 1992, 142, 215-224.	1.5	11
152	Physicochemical transformation of silica gels during hypercritical drying. Journal of Non-Crystalline Solids, 1992, 145, 25-32.	1.5	27
153	Spectral hole burning in H2Pc-doped SiO2-aerogels. Journal of Non-Crystalline Solids, 1992, 145, 149-153.	1.5	6
154	A comparison of the microstructural properties of silica aerogels and xerogels. Journal of Non-Crystalline Solids, 1992, 143, 1-13.	1.5	32
155	Strengthening of sol-gel-derived SiO2 glass fibers by incorporating colloidal silica particles. Journal of Non-Crystalline Solids, 1992, 143, 31-39.	1.5	16
156	Ultrastructural evolution during gelation of TiO2-SiO2 sols. Journal of Non-Crystalline Solids, 1992, 147-148, 206-212.	1.5	13
157	Raman study of gel-glass transformation in base-catalyzed silica. Journal of Non-Crystalline Solids, 1992, 147-148, 251-255.	1.5	6
158	Evolution of mechanical properties during the alcogel-aerogel-glass process. Journal of Non-Crystalline Solids, 1992, 147-148, 672-680.	1.5	51
159	Transmission infrared study of acid-catalyzed sol-gel silica coatings during room ambient drying. Journal of Materials Research, 1992, 7, 2230-2239.	1.2	71
160	GC headspace analysis of intermediates in the sol-gel synthesis of magnesium silicates. Journal of Non-Crystalline Solids, 1992, 149, 179-188.	1.5	4
161	Structure analysis of sol-gel-derived SiO2 gels by neutron diffraction. Journal of Non-Crystalline Solids, 1992, 149, 203-208.	1.5	17
162	In situ polymerization of tetraethoxysilane in poly(methyl methacrylate): morphology and dynamic mechanical properties. Polymer, 1992, 33, 1486-1495.	1.8	213
163	Gelation and microstructure of particulate silica. Ceramics International, 1992, 18, 73-80.	2.3	7
164	Gas transport and separation with ceramic membranes. Part II. Synthesis and separation properties of microporous membranes. Journal of Membrane Science, 1992, 66, 271-287.	4.1	189

#	Article	IF	Citations
165	Unsupported alkoxide-derived silica membranes. Colloids and Surfaces, 1992, 63, 173-179.	0.9	9
166	The sol-gel approach to prepare candidate microporous inorganic membranes for membrane reactors. Journal of Membrane Science, 1993, 77, 137-153.	4.1	91
167	Pt/SiO2 catalysts: A comparison of the impregnation and the solâ€"gel methods. Journal of Molecular Catalysis, 1993, 80, 299-306.	1.2	17
168	Inorganic environment derived from the sol-gel route does not improve the thermal or oxidative stability of 2,4-dinitroaniline in coatings. Polymer, 1993, 34, 2609-2614.	1.8	2
169	Infrared reflectance spectroscopy of porous silicas. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 74, 33-46.	2.3	39
170	Synthesis and spectroscopy of tpps-doped silica gels by the sol-gel process. Journal of Sol-Gel Science and Technology, 1993, 1, 85-92.	1.1	29
171	Gelation kinetics of an organically modified silicate. Journal of Materials Science, 1993, 28, 6549-6554.	1.7	25
172	Small-angle X-ray scattering investigations of fractal dimensions of hybrid inorganic organic network (ceramers) based on tetraethylorthosilicate and polytetramethylene oxide. Journal of Inorganic and Organometallic Polymers, 1993, 3, 197-229.	1.5	10
173	Densification of Alkoxide-Derived Fine Silica Powder Compact by Ultra-High-Pressure Cold Isostatic Pressing. Journal of the American Ceramic Society, 1993, 76, 54-64.	1.9	79
174	Structural Evolution of Alkoxide Silica Gels to Glass: Effect of Catalyst pH. Journal of the American Ceramic Society, 1993, 76, 2571-2582.	1.9	91
175	A SANS study of xTiO2î—¸SiO2 gels with low titania content. Journal of Non-Crystalline Solids, 1993, 163, 115-124.	1.5	11
176	Interaction between colloidal particles in SiO2 and TiO2 sols. Journal of Non-Crystalline Solids, 1993, 160, 247-254.	1.5	9
177	Simultaneous Time-Resolved Measurements of Weight and Small-Angle X-Ray Scattering of Heat- and Pressure-Treated Egg White during Gel-to-Glasslike Transition. Japanese Journal of Applied Physics, 1993, 32, L1439-L1440.	0.8	4
178	Small-Angle X-Ray Scattering Study on the Growth of Metal Silicate Polymers in Solution. Bulletin of the Chemical Society of Japan, 1993, 66, 1024-1027.	2.0	3
179	Structureâ€"Property Relationships in Solâ€"Gel-Derived Thin Films. ACS Symposium Series, 1994, , 104-121.	0.5	3
180	Heat treatment of spun-on acid-catalyzed sol-gel silica films. Journal of Materials Research, 1994, 9, 723-730.	1.2	58
181	A bioactive composite material produced by the sol-gel method. Journal of Materials Science, 1994, 29, 4075-4080.	1.7	23
182	Hydraulic radius and mesh size of gels. Journal of Sol-Gel Science and Technology, 1994, 1, 285-291.	1.1	65

#	Article	IF	Citations
183	The early stages of the sol-gel processing of TEOS. Journal of Sol-Gel Science and Technology, 1994, 2, 51-56.	1.1	29
184	Relaxation of a viscoelastic gel bar: II. Silica gel. Journal of Sol-Gel Science and Technology, 1994, 2, 199-204.	1.1	23
185	Structure and permeability of gels. Journal of Sol-Gel Science and Technology, 1994, 2, 239-244.	1.1	7
186	Measuring permeability by the thermal expansion method for rigid or highly permeable gels. Journal of Sol-Gel Science and Technology, 1994, 3, 31-40.	1.1	20
187	Self-diffusion coefficients of sol-gel intermediates. AICHE Journal, 1994, 40, 1193-1202.	1.8	6
188	Sol gel preparation of mixed ceriumâ€"titanium oxide thin films. Solar Energy Materials and Solar Cells, 1994, 33, 429-441.	3.0	52
189	Recent Progress in the Study of the Kinetics of Sol-gel SiO2 Synthesis Reactions. , 1994, , 3-16.		8
190	Sol-gel polymerization: analysis of molecular mechanisms and the effect of hydrogen. Journal of Non-Crystalline Solids, 1994, 171, 68-79.	1.5	37
191	Oxygen diffusion and reaction of residual carbon in sol-gel-derived silica xerogel. Journal of Non-Crystalline Solids, 1994, 169, 183-199.	1.5	6
192	Influence of butanol on the hydrolysis-condensation behaviour of TEOS. Journal of Non-Crystalline Solids, 1994, 168, 201-212.	1.5	10
193	Solâ€"Gel Processing of Silica. Advances in Chemistry Series, 1994, , 361-401.	0.6	27
194	Effect of Drying on Viscoelasticity and Permeability of Gel. Materials Research Society Symposia Proceedings, 1994, 346, 209.	0.1	3
195	Sol-Gel-Derived Silica Films With Tailored Microstructures for Applications Requiring Organic Dyes. Materials Research Society Symposia Proceedings, 1994, 346, 115.	0.1	8
196	Mechanical and Microstructural Properties of Two-Step Acid-Base Catalyzed Silica Gels. Materials Research Society Symposia Proceedings, 1994, 346, 439.	0.1	5
197	The Influence of Preparation Procedure in the Mullite Preparation by Solution Method to the Mixing of Al and Si and the Crystallization Behavior. Journal of the Ceramic Society of Japan, 1994, 102, 462-470.	1.3	15
198	Comparison of .ALPHA.-Alumina Crystallization Behavior in the Solution Method between with and without the Addition of Citric Acid.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1994, 1994, 329-335.	0.1	0
199	Effect of weakly and strongly ionizing radiation on the optical, infrared, and dielectric properties of porous sol-gel glasses. , 1994, 2290, 248.		0
200	Silica gels made by bicontinuous microemulsion polymerization. AICHE Journal, 1995, 41, 159-165.	1.8	23

#	Article	IF	Citations
201	Formation of chromium hydroxide particles in silica xerogel. Journal of Materials Science Letters, 1995, 14, 1354-1356.	0.5	0
202	Effect of non-ionic surface active agents on TEOS-derived sols, gels and materials. Journal of Sol-Gel Science and Technology, 1995, 4, 89-97.	1.1	43
203	Structure-property relationships in thin films and membranes. Journal of Sol-Gel Science and Technology, 1995, 4, 117-133.	1.1	50
204	Physical properties of sol-gel aluminosilicates. Microporous Materials, 1995, 3, 419-431.	1.6	18
205	Effect of acidic, basic and fluoride-catalyzed sol-gel transitions on the preparation of sub-nanostructured silica. Microporous Materials, 1995, 5, 77-90.	1.6	64
206	Monte Carlo simulation of the sol-gel process for the hydrolysis and polycondensation of tin tetra-n-butoxide. Catalysis Today, 1995, 23, 383-389.	2.2	12
207	Influence of siloxane composition and morphology on properties of polyimide-silica hybrids. Polymer, 1995, 36, 3649-3659.	1.8	169
208	An Ultrasonic Monitoring of the Sol-Gel Process in Silicon Alkoxide Solutions. Japanese Journal of Applied Physics, 1995, 34, 2575-2578.	0.8	0
209	Surface area enhancement of silica fibers by sol-gel processes. Journal of Non-Crystalline Solids, 1995, 183, 135-143.	1.5	10
210	Ultraporous materials with low permeability. Journal of Non-Crystalline Solids, 1995, 186, 64-72.	1.5	17
211	Preparation and properties of monolithic silica xerogels from TEOS-based alcogels aged in silane solutions. Journal of Non-Crystalline Solids, 1995, 186, 96-103.	1.5	105
212	Silica coating on barium titanate particles. Materials Letters, 1995, 24, 13-15.	1.3	27
213	Small-angle X-ray scattering study of nanopore evolution of macroporous silica gel by solvent exchange. Faraday Discussions, 1995, 101, 249.	1.6	36
214	Viscoelasticity and permeability of silica gels. Faraday Discussions, 1995, 101, 225.	1.6	15
215	High Surface Area Nafion Resin/Silica Nanocomposites:â€‰ A New Class of Solid Acid Catalyst. Journal of the American Chemical Society, 1996, 118, 7708-7715.	6.6	400
216	Preparation of Multicomponent Powders by Alkoxide Hydrolysis. 1. Chemical Processing. Chemistry of Materials, 1996, 8, 1167-1174.	3.2	14
217	Comparison of the Linear and Nonlinear Optical Properties of Poly(p-phenylenevinylene)/Solâ^'Gel Composites Derived from Tetramethoxysilane and Methyltrimethoxysilane. Chemistry of Materials, 1996, 8, 2586-2594.	3.2	56
218	A 29Si NMR study of the sol-gel polymerisation rates of substituted ethoxysilanes. Journal of Non-Crystalline Solids, 1996, 195, 1-15.	1.5	174

#	Article	IF	Citations
219	Bending of gel beams: Effect of deflection rate and Hertzian indentation. Journal of Non-Crystalline Solids, 1996, 201, 1-25.	1.5	22
220	Shrinkage of silica gels aged in TEOS. Journal of Non-Crystalline Solids, 1996, 202, 42-52.	1.5	67
221	Properties of silica gels aged in TEOS. Journal of Non-Crystalline Solids, 1996, 204, 228-234.	1.5	70
222	Synthesis and Applications of Molecular Sieve Layers and Membranesâ€. Chemistry of Materials, 1996, 8, 1636-1653.	3.2	433
223	Structure/Property Behavior of Organic-Inorganic Semi-IPNS. Materials Research Society Symposia Proceedings, 1996, 435, 155.	0.1	18
224	Small angle X-ray scattering (SAXS) studies of sol to gel transition in K2O-Al2O3-SiO2 system. Journal of Materials Science, 1996, 31, 1341-1344.	1.7	3
225	Subcritical drying of silica gels. Journal of Porous Materials, 1996, 2, 315-324.	1.3	35
226	Phase Separation Behavior of Silicate Phases Grown in Poly(methyl methacrylate) by a Solâ”Gel Process. Chemistry of Materials, 1997, 9, 2709-2719.	3.2	16
227	Effective Inorganic Hybrid Adsorbents of Water Vapor by the Solâ”Gel Method. Chemistry of Materials, 1997, 9, 2486-2490.	3.2	45
228	Effect of malic acid on structure of silicon alkoxide derived silica. Journal of Non-Crystalline Solids, 1997, 212, 40-48.	1.5	48
229	Stress from re-immersion of partially dried gel. Journal of Non-Crystalline Solids, 1997, 212, 268-280.	1.5	9
230	Effect of drying on properties of silica gel. Journal of Non-Crystalline Solids, 1997, 215, 155-168.	1.5	71
231	Probing the Dynamics of the Silica Nanostructure Formation and Growth by SAXS. Chemistry of Materials, 1997, 9, 2376-2384.	3.2	72
232	Observing the breathing of silica sol-gel-derived anti-reflection optical coatings. Thin Solid Films, 1997, 293, 185-195.	0.8	39
233	Thermal and Temporal Aging of Two Step Acid-Base Catalyzed Silica Gels in Water/Ethanol Solutions. Journal of Sol-Gel Science and Technology, 1997, 8, 153-157.	1.1	1
234	Chemical Modification of Thin Silica Films via the Sol-Gel-Process. Journal of Sol-Gel Science and Technology, 1997, 8, 507-509.	1.1	3
235	Thermal and temporal aging of two step acid-base catalyzed silica gels in water/ethanol solutions. Journal of Sol-Gel Science and Technology, 1997, 8, 153-157.	1.1	16
236	Synthesis of polystyrene/silica gel polymer hybrids by in-situ polymerization method. Polymer Bulletin, 1997, 39, 303-310.	1.7	56

#	Article	IF	Citations
237	Electrochemistry in solids prepared by sol-gel processes. Mikrochimica Acta, 1997, 127, 131-147.	2.5	60
238	Kinetic and thermodynamic issues in the early stages of sol-gel processes using silicon alkoxides. Catalysis Today, 1997, 35, 205-223.	2.2	98
239	Silicon secondary crosslinked IPN based on poly(methyl acrylate-co-hydroxylethyl acrylate) and SiO2. Polymer, 1997, 38, 5173-5178.	1.8	13
240	Control of Mesoporous Structure of Silica Aerogel Prepared from TMOS. Journal of Colloid and Interface Science, 1997, 188, 162-167.	5.0	48
241	Small-Angle X-Ray Scattering Study of the Formation of Colloidal Silica Particles from Alkoxides: Primary Particles or Not?. Journal of Colloid and Interface Science, 1997, 194, 311-318.	5.0	94
242	Role of Drying Techniques on the Development of Porosity in Silica Gels. Journal of Porous Materials, 1998, 5, 59-63.	1.3	25
243	Thermal and Temporal Aging of Silica Gels in Monomer Solutions. Journal of Sol-Gel Science and Technology, 1998, 13, 317-322.	1.1	16
244	Title is missing!. Journal of Sol-Gel Science and Technology, 1998, 11, 141-152.	1.1	18
245	Texture and Structure of Amorphous Co-Precipitated Silica-Aluminum Phosphate Catalyst Supports. Journal of Catalysis, 1998, 177, 96-104.	3.1	9
246	Effect of filler porosity on the abrasion resistance of nanoporous silica gel/polymer composites. Dental Materials, 1998, 14, 29-36.	1.6	37
247	Preparation of Silica Aerogel from TEOS. Journal of Colloid and Interface Science, 1998, 197, 353-359.	5.0	86
248	SAXS Study on Gelation Process in Preparation of Resorcinolâ€“Formaldehyde Aerogel. Journal of Colloid and Interface Science, 1998, 206, 577-582.	5.0	76
249	Synthesis of poly(vinyl alcohol) / silica gel polymer hybrids by in-situ hydrolysis method. Applied Organometallic Chemistry, 1998, 12, 755-762.	1.7	59
250	Biomimetic materials: recent developments in organic-inorganic hybrids. Materials Science and Engineering C, 1998, 6, 183-196.	3.8	68
251	Light gels by conventional drying. Journal of Non-Crystalline Solids, 1998, 225, 1-7.	1.5	42
252	Liesegang pattern formation by gas diffusion in silica aerogels. Journal of Non-Crystalline Solids, 1998, 225, 298-302.	1.5	11
253	Two-component aerogel adsorbents of water vapour. Journal of Non-Crystalline Solids, 1998, 225, 184-187.	1.5	14
254	Structural development of silica gels aged in TEOS. Journal of Non-Crystalline Solids, 1998, 231, 10-16.	1.5	65

#	Article	IF	Citations
255	Synthesis of IPN polymer hybrids of polystyrene gel and silica gel by an in-situ radical polymerization method. Journal of Materials Chemistry, 1998, 8, 1113.	6.7	47
256	Catalysis of Silicon Alkoxide Transesterification by Early Transition Metal Complexes. Chemistry of Materials, 1998, 10, 1604-1612.	3.2	19
257	Infrared spectroscopy analysis of the local atomic structure in silica prepared by sol-gel. Journal of Chemical Physics, 1998, 109, 7511-7514.	1.2	148
258	Synthesis of Poly(N,N-dimethylacrylamide)/Silica Gel Polymer Hybrids by in situ Polymerization Method. Polymer Journal, 1998, 30, 60-65.	1.3	66
259	Synthesis of chitosan/silica gel polymer hybrids. Composite Interfaces, 1998, 6, 259-272.	1.3	14
260	Preparation and Characterization of New Micro-Composites Derived from Polyamide and Silica Sol. International Journal of Polymeric Materials and Polymeric Biomaterials, 1998, 39, 127-140.	1.8	11
261	Band formation during gaseous diffusion in aerogels. Physical Review E, 1998, 57, 6767-6773.	0.8	5
262	Synthesis of IPN Polymer Hybrids by In-Situ Radical Polymerization Method and Their High Resistivity to Solvent Extraction. Bulletin of the Chemical Society of Japan, 1998, 71, 2749-2756.	2.0	24
263	Evaluation of Aerogel Materials for High-Temperature Batteries. , 0, , .		3
264	Application of organic-inorganic polymer hybrids as selective gas permeation membranes. Journal of Materials Chemistry, 1999, 9, 1741-1746.	6.7	45
265	Sol-gel preparation of nanostructured adsorbents. Studies in Surface Science and Catalysis, 1999, 120, 653-686.	1.5	5
266	Transmission Electron Microscopy Characterization and Application of Sol-Gel Membranes. Microscopy and Microanalysis, 1999, 5, 445-451.	0.2	2
267	Spectroscopy and optical properties of HITC-doped silica solâ€“gel glasses. Optical Materials, 1999, 13, 17-25.	1.7	8
268	Electrostatic assisted aerosol-gel deposition of porous silica films. Journal of Materials Science Letters, 1999, 18, 1705-1707.	0.5	16
269	The time evolution of the sol-gel process:29Si NMR study of hydrolysis and condensation reactions of tetramethoxysilane. Applied Magnetic Resonance, 1999, 16, 547-557.	0.6	13
270	Selective water sorbents for multiple applications, 8. sorption properties of CaCl2â^'SiO2 sol-gel composites. Reaction Kinetics and Catalysis Letters, 1999, 66, 113-120.	0.6	13
271	SiO2â€“LiBr Nanocomposite Solâ€“Gel Adsorbents of Water Vapor: Preparation and Properties. Journal of Colloid and Interface Science, 1999, 218, 500-503.	5.0	24
272	Sonogels and derived materials. Applied Organometallic Chemistry, 1999, 13, 399-418.	1.7	91

#	Article	IF	Citations
273	Morphology and pore structure of silica xerogels made at low pH. Journal of Non-Crystalline Solids, 1999, 249, 62-68.	1.5	73
274	Small angle neutron scattering study of silica gels: influence of pH. Journal of Non-Crystalline Solids, 1999, 258, 70-77.	1.5	18
275	Synthesis of Polystyrene and Silica Gel Polymer Hybrids Utilizing Ionic Interactions. Chemistry of Materials, 1999, 11, 1719-1726.	3.2	104
276	NOVEL CERAMER MATERIALS BASED ON JEFFAMINEÂ® POLY(PROPYLENE OXIDE) OLIGOMERS AND TETRAMETHOXYSILANE. Journal of Macromolecular Science - Pure and Applied Chemistry, 2000, 37, 145-175.	1.2	0
277	Effective sol-gel adsorbents of water vapor prepared using ethyl silicate 40 as a silica precursor. Studies in Surface Science and Catalysis, 2000, 129, 859-864.	1.5	1
278	Organic-inorganic composite materials from acrylonitrile-butadiene-styrene copolymers (ABS) and silica through anin situ sol-gel process. Journal of Applied Polymer Science, 2000, 75, 275-283.	1.3	60
279	Interphase bonding in organicâ€“inorganic hybrid materials using aminophenyltrimethoxysilane. European Polymer Journal, 2000, 36, 89-94.	2.6	62
280	Polyurea/polysiloxane ceramer coatings. Progress in Organic Coatings, 2000, 38, 97-110.	1.9	60
281	Microstructure and Porosity of Silica Xerogel Monoliths Prepared by the Fast Sol-Gel Method. Journal of Sol-Gel Science and Technology, 2000, 17, 211-217.	1.1	34
282	Title is missing!. Journal of Sol-Gel Science and Technology, 2000, 17, 7-18.	1.1	65
283	Formation of silicate structures in Cu-containing silica xerogels. Journal of Materials Research, 2000, 15, 2875-2880.	1.2	7
284	Measuring permeability and modulus of aerogels using dynamic pressurisation in an autoclave. Studies in Surface Science and Catalysis, 2000, , 663-670.	1.5	0
285	Processing of solâ€“gel silica using gamma radiation. Journal of Non-Crystalline Solids, 2000, 273, 175-179.	1.5	8
286	High Surface-Area Silica with Controlled Pore Size Prepared from Nanocomposite of Silica and Citric Acid. Journal of Physical Chemistry B, 2000, 104, 12184-12191.	1.2	157
287	Effects of Added Organosilanes on the Formation and Adsorption Properties of Silicates Surface-Imprinted with an Organophosphonate. Langmuir, 2000, 16, 6148-6155.	1.6	47
288	Catalysis of the Silica Solâ^'Gel Process by Divalent Transition Metal Bis(acetylacetonate) Complexes. Inorganic Chemistry, 2000, 39, 899-905.	1.9	14
289	Porous Behavior and Dielectric Properties of Barium Strontium Titanate Synthesized by Solâ^'Gel Method in the Presence of Triethanolamine. Chemistry of Materials, 2000, 12, 2590-2596.	3.2	55
290	Water Vapor Adsorption on the Solâ^'Gel Composites Prepared Using Ethyl Silicate 40 as a Silica Precursor. Langmuir, 2001, 17, 626-630.	1.6	10

#	Article	IF	Citations
291	New Preparation Methods for Organicâ€“Inorganic Polymer Hybrids. MRS Bulletin, 2001, 26, 389-392.	1.7	66
292	Complexation and Molecular Speciation in the Silica Solâ^'Gel Process Characterized by Electrospray Ionization Fourier Transform Ion-Cyclotron Resonance Mass Spectrometry. Chemistry of Materials, 2001, 13, 2097-2102.	3.2	12
293	From aerogels to compact glasses: effect of the density on the dynamical structure factor. Journal of Non-Crystalline Solids, 2001, 280, 164-168.	1.5	1
294	Low temperature devitrification of Ag/SiO2 and Ag(CuO)/SiO2 composites. Journal of Non-Crystalline Solids, 2001, 282, 317-320.	1.5	16
295	Modifying nanoscale silica with itself: a method to control surface properties of silica aerogels independently of bulk structure. Journal of Non-Crystalline Solids, 2001, 285, 29-36.	1.5	24
296	Effective diffusion coefficient in the low temperature process of silica aerogel production. Journal of Non-Crystalline Solids, 2001, 285, 50-56.	1.5	23
297	Processing of low-density silica gel by critical point drying or ambient pressure drying. Journal of Non-Crystalline Solids, 2001, 283, 11-17.	1.5	57
298	Solid-state NMR evaluation of the silane structure on nanoporous silica fillers. Journal of Adhesion Science and Technology, 2001, 15, 267-277.	1.4	8
299	Cascade Formalism Applied to Network Formation in Organic/Inorganic Hybrid Gel Films. , 2001, , .		0
300	Preparation and properties of ABS-silica nanocomposites through sol-gel process under the catalyzation of different catalysts. Journal of Polymer Research, 2001, 8, 69-76.	1.2	7
301	Structural and Catalytic Properties of Ni/SiO2 Prepared by Solution Exchange of Wet Silica Gel. Journal of Catalysis, 2001, 204, 259-271.	3.1	54
302	On-line characterization of silica gels by acoustic near field. Sensors and Actuators B: Chemical, 2001, 76, 115-123.	4.0	6
303	Chemical sensors of monocyclic aromatic hydrocarbons based on solâ€“gel materials: synthesis, structural characterization and molecular interactions. Journal of Materials Chemistry, 2002, 12, 461-467.	6.7	14
304	Dynamic and Static Light Scattering Study on the Sol-Gel Transition of Resorcinol-Formaldehyde Aqueous Solution. Journal of Colloid and Interface Science, 2002, 245, 391-396.	5.0	38
305	Microstructural and spectroscopic study of solâ€“gel derived Nd-doped silica glasses. Journal of Luminescence, 2002, 96, 295-309.	1.5	27
306	Multifractal characteristics of silica xerogels gelated in various evaporation conditions. Physica A: Statistical Mechanics and Its Applications, 2002, 312, 70-78.	1.2	2
307	Cobalt Oxide/Silica Xerogels Powders: X-Ray Diffraction, Infrared and Visible Absorption Studies. Journal of Sol-Gel Science and Technology, 2002, 24, 23-29.	1.1	55
308	29Si MAS-NMR Study of Silica Gels and Xerogels: Influence of the Catalyst. Journal of Sol-Gel Science and Technology, 2002, 24, 191-195.	1.1	20

#	Article	IF	Citations
309	Formation of Nickel-Zinc Ferrite Embedded in a Silica Xerogel Matrix. Journal of Sol-Gel Science and Technology, 2002, 25, 37-41.	1.1	20
310	Synthesis of Fe2O3 Species Embedded in a Silica Xerogel Matrix: A Comparative Study. Journal of Sol-Gel Science and Technology, 2002, 25, 29-36.	1.1	24
311	Synthesis of poly(diallyl phthalate) and silica gel polymer hybrids utilizing Ââ€“Ï€ interactions. Silicon Chemistry, 2002, 1, 409-416.	0.8	7
312	Structure and dynamics of water confined in silica hydrogels: X-ray scattering and dielectric spectroscopy studies. European Physical Journal E, 2003, 12, 63-66.	0.7	37
313	Chemical Control of Highly Porous Silica Xerogels:Â Physical Properties and Morphology. Chemistry of Materials, 2003, 15, 2186-2192.	3.2	77
314	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 27, 185-192.	1.1	8
315	Synthesis of nanocrystalline Si particles from a solid-state reaction during a ball-milling process. Scripta Materialia, 2003, 49, 773-778.	2.6	14
316	Silica gel-based monoliths prepared by the solâ€“gel method: facts and figures. Journal of Chromatography A, 2003, 1000, 801-818.	1.8	312
317	Preparation, characterization, and properties of novolac-type phenolic/SiO2 hybrid organic-inorganic nanocomposite materials by sol-gel method. Journal of Polymer Science Part A, 2003, 41, 905-913.	2.5	131
318	Preparation and properties of high molecular weight polyethoxysiloxanes stable to self-condensation by acid-catalyzed hydrolytic polycondensation of tetraethoxysilane. Journal of Polymer Science Part A, 2003, 41, 2250-2255.	2.5	27
319	Solution interaction of O-donor ligand metal complexes with thiocarbonyl compoundsâ€”a new general route to metal sulfide materials. New Journal of Chemistry, 2003, 27, 1059-1064.	1.4	9
320	Chemical reaction kinetics leading to the first Stober silica nanoparticles â€“ NMR and SAXS investigation. Journal of Non-Crystalline Solids, 2003, 315, 166-179.	1.5	95
321	Effect of gel modulus on the porosity of low-density silica. Journal of Non-Crystalline Solids, 2003, 316, 238-245.	1.5	5
322	Infrared spectroscopy of solâ€“gel derived silica-based films: a spectra-microstructure overview. Journal of Non-Crystalline Solids, 2003, 316, 309-319.	1.5	830
323	Dynamic pressurization: novel method for measuring fluid permeability. Journal of Non-Crystalline Solids, 2003, 325, 34-47.	1.5	33
324	Thermolytic Synthesis of Imprinted Amines in Bulk Silica. Chemistry of Materials, 2003, 15, 2757-2763.	3.2	93
325	Synthesis of Silica Gels and Organicâ€“Inorganic Hybrids on Their Base. Glass Physics and Chemistry, 2004, 30, 430-442.	0.2	22
326	Structural Characterization of Silver Doped Silica Prepared by Two Different Wet Chemical Methods. Journal of Sol-Gel Science and Technology, 2004, 30, 89-94.	1.1	15

#	Article	IF	Citations
327	Titania-Doped Silica Fibers Prepared by Electrospinning and Sol-Gel Process. Journal of Sol-Gel Science and Technology, 2004, 30, 215-221.	1.1	39
328	Chemical Tailoring of Porous Silica Xerogels: Local Structure by Vibrational Spectroscopy. Chemistry - A European Journal, 2004, 10, 392-398.	1.7	131
329	Nanocrystalline materials and coatings. Materials Science and Engineering Reports, 2004, 45, 1-88.	14.8	768
330	Structural evolution of solâ€“gel SiO2 heated glasses containing silver particles. Journal of Physics and Chemistry of Solids, 2004, 65, 1045-1052.	1.9	35
331	Chemical solution deposition of electronic oxide films. Comptes Rendus Chimie, 2004, 7, 433-461.	0.2	430
332	Molecular Dynamics Simulations of the Polymerization of Aqueous Silicic Acid and Analysis of the Effects of Concentration on Silica Polymorph Distributions, Growth Mechanisms, and Reaction Kinetics. Journal of Physical Chemistry B, 2004, 108, 12418-12428.	1.2	93
333	A simple and inexpensive route to synthesize porous silica microflowers by supercritical CO2. Microporous and Mesoporous Materials, 2005, 87, 10-14.	2.2	13
334	Dense silica-based coatings prepared from colloidal silica. Surface and Coatings Technology, 2005, 190, 110-114.	2.2	11
335	Effect of pH on the Final Connectivity Distribution of the Silicon Atoms in the Stï¿½ber Particles. Journal of Sol-Gel Science and Technology, 2005, 33, 255-260.	1.1	2
336	Controlled polymer hybrids with ladderlike polyphenylsilsesquioxane as a template via the sol-gel reaction of phenyltrimethoxysilane. Journal of Polymer Science Part A, 2005, 43, 473-478.	2.5	13
337	Preparation of a Novel Epoxy/SiO₂ Hybrid Coating. Advanced Composites Letters, 2005, 14, 096369350501400.	1.3	6
338	Nanostructured Systems for Biological Materials. , 2005, 300, 053-080.		14
339	Formation and characterization of tin oxide aerogel derived from solâ€“gel process based on Tetra(n-butoxy)tin(IV). Journal of Non-Crystalline Solids, 2005, 351, 23-28.	1.5	17
340	Structural Analysis and Control of Ultralow Density Silica Aerogels Prepared by Sol-gel Process. , 2006, , .		0
341	Molecular Motion of Tethered Molecules in Bulk and Surface-Functionalized Materials:Â A Comparative Study of Confinement. Journal of the American Chemical Society, 2006, 128, 5687-5694.	6.6	15
342	Silicate Biomaterials for Orthopaedic and Dental Implants. Reviews in Mineralogy and Geochemistry, 2006, 64, 283-313.	2.2	54
343	Synthesis of SiO2Nanotubes and Their Application as Nanoscale Reactors. Chemistry of Materials, 2006, 18, 996-1000.	3.2	45
344	Evaluation of activation energy of viscous flow of solâ€“gel derived phenyl-modified silica glass. Journal of Non-Crystalline Solids, 2006, 352, 3175-3178.	1.5	11

#	Article	IF	Citations
345	Structural and mechanical properties of polymer nanocomposites. Materials Science and Engineering Reports, 2006, 53, 73-197.	14.8	1,234
346	Preparation of ormosil and its applications in the immobilizing biomolecules. Sensors and Actuators B: Chemical, 2006, 114, 1071-1082.	4.0	93
347	Chemical and solâ€“gel processing of tellurite glasses for optoelectronics. Journal of Materials Science: Materials in Electronics, 2006, 17, 723-733.	1.1	44
348	Effect of Processing Temperature on Gelation and Physical Properties of Low Density TEOS Based Silica Aerogels. Journal of Sol-Gel Science and Technology, 2006, 38, 55-61.	1.1	18
349	New insight in the role of modifying ligands in the sol-gel processing of metal alkoxide precursors: A possibility to approach new classes of materials. Journal of Sol-Gel Science and Technology, 2006, 40, 163-179.	1.1	174
350	Investigation of the Structure of Polymerizable Silsesquioxanes by GPC and MALDI-TOF-MS in Relation to their Viscosity. Monatshefte FÃ¼r Chemie, 2006, 137, 667-679.	0.9	10
351	Phenolic resin/SiO 2 organic-inorganic hybrid nanocomposites. , 2006, , 485-509.		0
352	Preparation of Free-standing Films from 3-Mercaptopropylpolysilsesquioxane. Kobunshi Ronbunshu, 2007, 64, 705-707.	0.2	6
353	Effects of dimethyldiethoxysilane addition on the solâ€“gel process of tetraethylorthosilicate. Journal of Non-Crystalline Solids, 2007, 353, 321-326.	1.5	17
354	Acidity-dependent mesostructure transformation of highly ordered mesoporous silica materials during a two-step synthesis. Journal of Non-Crystalline Solids, 2007, 353, 2507-2514.	1.5	17
355	Three-Dimensional Core-Shell Superstructures: Mechanically Strong Aerogels. Accounts of Chemical Research, 2007, 40, 874-884.	7.6	288
356	Antibacterial Activity of Plastics Coated with Silver-Doped Organicâ^'Inorganic Hybrid Coatings Prepared by Solâ^'Gel Processes. Biomacromolecules, 2007, 8, 1246-1254.	2.6	192
357	Silica-Polyethylene Glycol Matrix Synthesis by Sol-Gel Method and Evaluation for Diclofenac Diethyloammonium Release. Drug Delivery, 2007, 14, 129-138.	2.5	22
358	Fabricating solâ€“gel glass monoliths with controlled nanoporosity. Biomedical Materials (Bristol), 2007, 2, 6-10.	1.7	12
359	Facile synthesis of coreâ€shell organicâ€“inorganic hybrid nanoparticles with amphiphilic polymer shell by oneâ€step solâ€“gel reactions. Journal of Polymer Science Part A, 2008, 46, 1699-1709.	2.5	15
360	Synthesis of spherical silica particles by solâ€gel method and application. Polymers for Advanced Technologies, 2008, 19, 977-983.	1.6	9
361	Silica aerogel; synthesis, properties and characterization. Journal of Materials Processing Technology, 2008, 199, 10-26.	3.1	1,052
362	Spherical particles from tetraorthosilicate (TEOS) solâ€“gel process with dimethyldiethoxysilane (DDS) and diphenyldiethoxysilane (DPDS) addition. Journal of Non-Crystalline Solids, 2008, 354, 5047-5052.	1.5	9

#	Article	IF	Citations
363	Formation Mechanism of Amorphous TiO₂ Spheres in Organic Solvents. 1. Roles of Ammonia. Journal of Physical Chemistry C, 2008, 112, 18760-18771.	1.5	60
364	Multinuclear Solid-State NMR Studies of Ordered Mesoporous Bioactive Glasses. Journal of Physical Chemistry C, 2008, 112, 5552-5562.	1.5	125
365	Investigation of the Compatibility of Gels with Precipitating Agents and Detergents in Protein Crystallization Experiments. Crystal Growth and Design, 2008, 8, 4291-4296.	1.4	9
366	Formation of Polycyanoacrylateâ^'Silica Nanocomposites by Chemical Vapor Deposition of Cyanoacrylates on Aerogels. Chemistry of Materials, 2008, 20, 2845-2847.	3.2	49
368	Membrane Chromatography. , 2008, , 25-63.		2
370	Oxidation of dibenzothiophene to dibenzothiophene-sulfone using silica gel. Journal of Catalysis, 2009, 268, 329-334.	3.1	33
371	Mesostructure, fractal properties and thermal decomposition of hydrous zirconia and hafnia. Russian Journal of Inorganic Chemistry, 2009, 54, 2091-2106.	0.3	22
372	Mechanism of Formation of Uniform-Sized Silica Nanospheres Catalyzed by Basic Amino Acids. Chemistry of Materials, 2009, 21, 3719-3729.	3.2	169
373	Influence of Amorphous Silica Matrices on the Formation, Structure, and Chemistry of Iron and Iron Oxide Nanoparticles. Journal of the American Chemical Society, 2009, 131, 14768-14777.	6.6	12
374	Review of mullite synthesis routes by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2010, 55, 111-125.	1.1	149
375	Nondestructive evaluation of solâ€“gels using terahertz time-domain reflectance spectroscopy to probe the effects of dendrimer incorporation and humidity on solâ€“gel aging. Journal of Sol-Gel Science and Technology, 2010, 56, 134-140.	1.1	1
376	Effect of amine catalysts on preparation of nanometric SiO2 particles and antireflective films via solâ€“gel method. Journal of Sol-Gel Science and Technology, 2010, 56, 167-176.	1.1	20
378	Organic Solâ€“Gel Synthesis: Solutionâ€Processable Microporous Organic Networks. Angewandte Chemie - International Edition, 2010, 49, 9504-9508.	7.2	79
379	Preparation of particulate/polymeric solâ€“gel derived microporous silica membranes and determination of their gas permeation properties. Journal of Membrane Science, 2010, 350, 42-52.	4.1	13
380	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
381	Synthesis and characterization of poly(EMA-co-HEA)/SiO2 nanohybrids. European Polymer Journal, 2010, 46, 1446-1455.	2.6	15
382	Preparation of free-standing films with sulfonyl group from 3-mercaptopropyl(trimethoxy)silane/1,2-bis(triethoxysilyl)ethane copolymer. Polymer Journal, 2010, 42, 684-688.	1.3	11
383	Silica-based nanoporous sol-gel glasses: from bioencapsulation to protein folding studies. International Journal of Nanotechnology, 2010, 7, 1.	0.1	58

#	Article	IF	Citations
384	Influence of Chemical Conditions on the Nanoporous Structure of Silicate Aerogels. Materials, 2010, 3, 704-740.	1.3	130
385	Liquid adsorption of basic dye using silica aerogels with different textural properties. Journal of Non-Crystalline Solids, 2010, 356, 250-257.	1.5	42
386	Fabrication of microporous amorphous silica glass by pyrolysis of phenyl groups intercalated in solâ€“gel derived phenyl-modified silica glass. Journal of Non-Crystalline Solids, 2010, 356, 1842-1847.	1.5	6
387	Effect of surface functionalization of silica aerogel on their adsorptive and release properties. Journal of Non-Crystalline Solids, 2010, 356, 1644-1649.	1.5	70
388	Effects of Siâ€“Oâ€“Si Agglomerations on CO2Transport and Separation Properties of Sol-Derived Nanohybrid Membranes. Macromolecules, 2011, 44, 6057-6066.	2.2	21
390	Ferroelectric Thin Layers. , 2011, , 177-205.		3
391	Effect of acid, water and alcohol ratios on sol-gel preparation of antireflective amorphous SiO2 coatings. Journal of Non-Crystalline Solids, 2011, 357, 3130-3135.	1.5	52
392	Silicon Carbide: Synthesis and Properties. , 0, , .		45
393	Effect of synthesis conditions on the microstructure of TEOS derived silica hydrogels synthesized by the alcohol-free solâ€“gel route. Journal of Sol-Gel Science and Technology, 2011, 59, 174-180.	1.1	18
394	B12-induced formation of stishovite in solâ€“gel produced amorphous SiO2 matrices. Journal of Sol-Gel Science and Technology, 2011, 59, 215-221.	1.1	9
395	Effect of a formulation named â€œGiralâ€•on mechanical properties of a composite based on silica and unsaturated polyester resin. Polymer Bulletin, 2011, 66, 77-94.	1.7	6
396	Influence of monoatomic alcohols on hydrolysis and condensation of tetraethoxysilane. Glass Physics and Chemistry, 2012, 38, 413-418.	0.2	0
397	Sorption of Asphaltenes onto Nanoparticles of Nickel Oxide Supported on Nanoparticulated Silica Gel. Energy & Fuels, 2012, 26, 1725-1730.	2.5	81
398	Synthesis and Characterization of Amorphous and Hybrid Materials Obtained by Sol-Gel Processing for Biomedical Applications. , 0, , .		1
399	Review on nanostructured semiconductors for dye sensitized solar cells. Electronic Materials Letters, 2012, 8, 231-243.	1.0	58
400	Sol-gel thin films with anti-reflective and self-cleaning properties. Chemical Papers, 2012, 66, .	1.0	35
401	Solvent effect on distribution of phenyl groups for C6H5SiO3/2â€“SiO2 coatings prepared on polycarbonate substrate. Journal of Sol-Gel Science and Technology, 2012, 62, 92-97.	1.1	3
402	Effects of solvent on TEOS hydrolysis kinetics and silica particle size under basic conditions. Journal of Sol-Gel Science and Technology, 2013, 67, 351-361.	1.1	58

#	Article	IF	Citations
403	Performance and Long Term Stability of Mesoporous Silica Membranes for Desalination. Membranes, 2013, 3, 136-150.	1.4	83
404	Crossed and Linked Histories of Tetrapyrrolic Macrocycles and Their Use for Engineering Pores within Sol-Gel Matrices. Molecules, 2013, 18, 588-653.	1.7	25
405	Recent advances in solâ€“gel synthesis of monolithic silica and silica-based glasses. Journal of Asian Ceramic Societies, 2013, 1, 121-133.	1.0	123
406	pH control of the structure, composition, and catalytic activity of sulfated zirconia. Journal of Solid State Chemistry, 2013, 198, 496-505.	1.4	24
407	Reverse-selective polymeric membranes for gas separations. Progress in Polymer Science, 2013, 38, 740-766.	11.8	166
408	Silica sol-gel encapsulation of cyanobacteria: lessons for academic and applied research. Applied Microbiology and Biotechnology, 2013, 97, 1809-1819.	1.7	38
409	Nanoparticles for Inhibition of Asphaltenes Damage: Adsorption Study and Displacement Test on Porous Media. Energy & Fuels, 2013, 27, 2899-2907.	2.5	179
410	Insulation by Solution 3-Mercaptopropyltrimethoxysilane (MPS) Coating: Effect of pH, Water, and MPS Content. Industrial & Engineering Chemistry Research, 2013, 52, 2590-2597.	1.8	16
411	A simple approach for surface hardening of polystyrene. Applied Surface Science, 2013, 264, 589-592.	3.1	5
412	Aerogels Materials as Space Debris Collectors. Advances in Materials Science and Engineering, 2013, 2013, 1-6.	1.0	12
413	Tensile properties of in-situ precipitated polydimethylsiloxane networks. EXPRESS Polymer Letters, 2013, 7, 863-872.	1.1	1
414	Small-Angle X-Ray Scattering for Imaging of Surface Layers on Intact Bacteria in the Native Environment. Journal of Bacteriology, 2013, 195, 2408-2414.	1.0	9
415	Synthesis of DNA-encapsulated silica elaborated by solâ€“gel routes. Journal of Materials Research, 2013, 28, 175-184.	1.2	10
416	Organic solâ€“gel synthesis of microporous molecular networks containing spirobifluorene and tetraphenylmethane nodes. Journal of Polymer Science Part A, 2013, 51, 1758-1766.	2.5	18
417	Rheological Properties of SiC Suspensions with a Compound Surface Modification Using Ethyl Orthosilicate and Ethylene Glycol. Journal of Dispersion Science and Technology, 2013, 34, 1742-1749.	1.3	8
419	Effects of a Protic Ionic Liquid on the Reaction Pathway during Non-Aqueous Solâ€“Gel Synthesis of Silica: A Raman Spectroscopic Investigation. International Journal of Molecular Sciences, 2014, 15, 6488-6503.	1.8	26
420	A highly reactive photobase catalytic system for solâ€“gel polymerization. Thin Solid Films, 2014, 550, 177-183.	0.8	10
421	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
422	Hydrophobization of Silica Aerogels: Insights from Quantitative Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 25545-25554.	1.5	38
423	Template-free synthesis of Î±-GaOOH hyperbranched nanoarchitectures via crystal splitting and their optical properties. RSC Advances, 2014, 4, 8209.	1.7	16
424	The effect of synthesis route and magnesium addition on structure and bioactivity of solâ€“gel derived calcium-silicate glasses. Ceramics International, 2014, 40, 14741-14748.	2.3	23
426	Preparation and Characterization of Nickel Ferrite-SiO₂/Ag Core/Shell Nanocomposites. Advances in Materials Science and Engineering, 2015, 2015, 1-7.	1.0	7
427	Development of an Organosilica Coating Containing Carbonic Anhydrase for Applications in CO2 Capture. , 2015, , 117-147.		2
428	Biodegradation-tunable mesoporous silica nanorods for controlled drug delivery. Materials Science and Engineering C, 2015, 50, 64-73.	3.8	24
429	Modelling the assembly of nanoporous silica materials. International Reviews in Physical Chemistry, 2015, 34, 35-70.	0.9	28
430	Chitin based hybrid composites reinforced with graphene derivatives: a nanoscale study. RSC Advances, 2015, 5, 63813-63820.	1.7	9
431	Reactive modeling of the initial stages of alkoxysilane polycondensation: effects of precursor molecule structure and solution composition. Soft Matter, 2015, 11, 6780-6789.	1.2	19
432	Combined SANS and SAXS study of the action of ultrasound on the structure of amorphous zirconia gels. Ultrasonics Sonochemistry, 2015, 24, 230-237.	3.8	18
433	Efficacy of a solution-based approach for making sodalite waste forms for an oxide reduction salt utilized in the reprocessing of used uranium oxide fuel. Journal of Nuclear Materials, 2015, 459, 313-322.	1.3	11
434	Sol-gel technology for antimicrobial textiles. , 2016, , 47-72.		7
435	Highly transparent polyimide hybrids for optoelectronic applications. Reactive and Functional Polymers, 2016, 108, 2-30.	2.0	114
436	Up-conversion luminescence of BaCl2:Er3+ nanocrystals embedded in oxychloride nano-glass ceramic. Journal of the European Ceramic Society, 2016, 36, 1699-1703.	2.8	5
437	Solution-derived sodalite made with Si- and Ge-ethoxide precursors for immobilizing electrorefiner salt. Journal of Nuclear Materials, 2016, 468, 140-146.	1.3	10
438	A statistical approach to synthesis of functionally modified silica nanoparticles. Journal of Alloys and Compounds, 2016, 654, 308-314.	2.8	16
439	Synthesis and characterization of hydrophobic and mesoporous silicateâ€“silsesquioxane hybrid copolymers. Microporous and Mesoporous Materials, 2016, 219, 178-185.	2.2	3
440	Creative Synthesis of Organicâ€“Inorganic Molecular Hybrid Materials. Bulletin of the Chemical Society of Japan, 2017, 90, 463-474.	2.0	81

#	Article	IF	Citations
441	Effect of graphene oxide and fluorinated polymeric chains incorporated in a multilayered sol-gel nanocoating for the design of corrosion resistant and hydrophobic surfaces. Applied Surface Science, 2017, 419, 138-149.	3.1	56
442	Supercritical drying of cementitious materials. Cement and Concrete Research, 2017, 99, 137-154.	4.6	42
443	Three-Dimensional Encapsulation of Saccharomyces cerevisiae in Silicate Matrices Creates Distinct Metabolic States as Revealed by Gene Chip Analysis. ACS Nano, 2017, 11, 3560-3575.	7.3	17
444	Sol-gel preparation and structural investigations of silico-phosphate glasses doped with Fe ions. Journal of Sol-Gel Science and Technology, 2017, 81, 294-302.	1.1	3
445	Heterogeneous electro-Fenton and photoelectro-Fenton processes: A critical review of fundamental principles and application for water/wastewater treatment. Applied Catalysis B: Environmental, 2018, 235, 103-129.	10.8	631
446	Crystallization of silica promoted by residual hydrogen bonding interactions at high temperature. Physical Chemistry Chemical Physics, 2018, 20, 12827-12834.	1.3	2
447	Continuous flow adsorption of ciprofloxacin by using a nanostructured chitin/graphene oxide hybrid material. Carbohydrate Polymers, 2018, 188, 213-220.	5.1	46
448	An improvement of polypropylene itaconate base coating by simultaneous condensation of tetraethyl orthosilicate. Progress in Organic Coatings, 2018, 125, 119-127.	1.9	3
449	Understanding and Controlling the Morphology of Silica Shells on Gold Nanorods. Chemistry of Materials, 2018, 30, 6249-6258.	3.2	34
450	Continuous adjustment of fractal dimension of silica aerogels. Journal of Non-Crystalline Solids, 2018, 499, 159-166.	1.5	14
451	Solâ€“Gel Synthesis and Characterization of Gels with Compositions Relevant to Hydrated Glass Alteration Layers. ACS Omega, 2019, 4, 16257-16269.	1.6	11
452	Investigation of Hydrolytic Polycondensation in Systems Based on Tetraethoxysilane by DK-Spectrophotometry Method. Glass Physics and Chemistry, 2019, 45, 419-427.	0.2	1
453	Preparation and characterization of dip coated cobalt oxide thin films. Materials Research Innovations, 2019, 23, 253-259.	1.0	5
454	Gas separation ceramic membranes. , 2020, , 321-385.		7
455	Catalysis of silica solâ€“gel reactions using a PdCl2 precursor. Journal of Sol-Gel Science and Technology, 2020, 95, 456-464.	1.1	4
456	Comparative structural investigations of nuclear waste glass alteration layers and sol-gel synthesized aerogels. Npj Materials Degradation, 2020, 4, .	2.6	5
457	Sol-gel: Uncomplicated, routine and affordable synthesis procedure for utilization of composites in drug delivery: Review. Journal of Composites and Compounds, 2020, 2, 57-70.	0.4	10
458	Solâ€“Gel Ceramics for SEIRAS and SERS Substrates. Crystals, 2021, 11, 439.	1.0	6

#	Article	IF	Citations
461	Gold Nanorod Coating with Silica Shells Having Controlled Thickness and Oriented Porosity: Tailoring the Shells for Biosensing. ACS Applied Nano Materials, 2021, 4, 9842-9854.	2.4	11
462	Shell-thickness control of hollow SiO2 nanoparticles through post-treatment using solâ€“gel technique toward efficient water confinement. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127501.	2.3	2
463	Processing techniques of antimicrobial textiles. , 2021, , 189-215.		6
464	Phase Transformations. The Kluwer International Series in Sol-gel Processing: Technology and Applications, 1998, , 279-308.	0.1	2
465	Design of Microstructures in Sol-Gel Processed Silicates. , 1987, , 39-65.		4
466	Luminescence and Nonradiative Processes in Porous Glasses. NATO ASI Series Series B: Physics, 1991, , 397-423.	0.2	5
467	Structure of Random Materials. Springer Proceedings in Physics, 1985, , 31-37.	0.1	25
468	Solâ€”gel derived ceramic films â€” fundamentals and applications. , 1996, , 112-151.		14
469	Transition Metal Oxo Polymers Synthesized via Sol-Gel Chemistry. , 1992, , 267-295.		14
470	Optical sol-gel coatings : ellipsometry of film formation. Journal De Physique, 1988, 49, 1017-1025.	1.8	31
471	The effect of different alkaline catalysts on the formation of silica aerogels prepared by the solâ€“gel approach. Journal of the Ceramic Society of Japan, 2020, 128, 395-403.	0.5	8
472	Immobilization of Proteins in Silica Gel: Biochemical and Biophysical Properties. Current Organic Chemistry, 2015, 19, 1653-1668.	0.9	20
473	Mesoporous silica matrices derived from sol-gel process assisted by low power ultrasonic activation. Processing and Application of Ceramics, 2009, 3, 59-64.	0.4	5
474	Precise Size-control of Silica Nanoparticles via Alkoxy Exchange Equilibrium of Tetraethyl Orthosilicate (TEOS) in the Mixed Alcohol Solution. Bulletin of the Korean Chemical Society, 2012, 33, 1067-1070.	1.0	28
475	Structural and Spectroscopic Characteristics of NiII and CuII Complexes with Poly (Vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 187 Td (A 2021, 11, 1244.	1.0	2
476	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
477	Preparation and Application of Inorganic Membranes. , 1994, , 431-442.		0
478	Uncertainty Analysis of Drug Concentration in Pharmaceutical Mixtures. , 2016, , 221-225.		0

#	Article	IF	Citations
479	Phase Transformation. , 2020, , 497-549.		0
480	Constructing efficient and recyclable composite absorbent based on the modification of polymer skeleton with in situ assembled mesoporous silica/graphene oxide nanohybrid. Composites Science and Technology, 2022, 220, 109295.	3.8	6
481	Simultaneous monitoring of sweat lactate content and sweat secretion rate by wearable remote biosensors. Biosensors and Bioelectronics, 2022, 202, 113970.	5.3	38
482	Long-Term Performance and Stability of Interlayer-Free Mesoporous Silica Membranes for Wetland Saline Water Pervaporation. Polymers, 2022, 14, 895.	2.0	13
484	Investigation of the Mechanism of SiO₂ Particle and Capsule Formation at the Oilâ€“Water Interface of Dye-Stabilized Emulsions. Langmuir, 2022, 38, 9741-9750.	1.6	0
485	In Situ Solâ€“Gel Synthesis of Unique Silica Structures Using Airborne Assembly: Implications for In-Air Reactive Manufacturing. ACS Applied Nano Materials, 2022, 5, 11699-11706.	2.4	4
486	Digital Light Processing 3Dâ€Printed Silica Aerogel and as a Versatile Host Framework for Highâ€Performance Functional Nanocomposites. Advanced Science, 2022, 9, .	5.6	7
487	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
488	Revisiting metastable immiscibility in SiO₂â€“Al₂O₃: Structure and phase separation of supercooled liquids and glasses. Journal of the American Ceramic Society, 2023, 106, 2820-2834.	1.9	2
489	Synthesis Approach and Adsorption Properties of SiOC Nanocomposite by Chitin Templating. Journal Wuhan University of Technology, Materials Science Edition, 2022, 37, 1041-1047.	0.4	0
490	Low-Dimensional Hollow Nanostructures: From Morphology Control to the Release of an Active Pharmaceutical Ingredient. Chemistry of Materials, 2023, 35, 1877-1890.	3.2	2