

# Carole C Perry

## List of Publications by Year in descending order

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164  
papers

12,230  
citations

39113

52  
h-index

29333

108  
g-index

171  
all docs

171  
docs citations

171  
times ranked

16600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of GFN1-xTB for periodic optimization of metal organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10906-10914.	1.3	4
2	Lessons from a Challenging System: Accurate Adsorption Free Energies at the Amino Acid/ZnO Interface. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 4420-4434.	2.3	5
3	Fungal pigments on paper: Raman and quantum chemistry studies of <i>Alternaria Sp.</i> <i>Dyes and Pigments</i> , 2021, 195, 109719.	2.0	5
4	Anchoring of a hydrophobic heptapeptide (AFILPTG) on silica facilitates peptide unfolding at the abiotic-biotic interface. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18001-18011.	1.3	0
5	Mapping blood biochemistry by Raman spectroscopy at the cellular level. <i>Chemical Science</i> , 2021, 13, 133-140.	3.7	5
6	Materials-Based Approach for Interrogating Human Prostate Cancer Cell Adhesion and Migratory Potential Using a Fluoroalkylsilica Culture Surface. <i>ACS Applied Bio Materials</i> , 2020, 3, 495-504.	2.3	3
7	Polariton condensation and surface enhanced Raman in spherical ZnO microcrystals. <i>Nature Communications</i> , 2020, 11, 4908.	5.8	7
8	Efficacy and stability of a novel silica supplement for improving bone development in broilers. <i>British Poultry Science</i> , 2020, 61, 719-724.	0.8	3
9	Gamma estimator of Jarzynski equality for recovering binding energies from noisy dynamic data sets. <i>Nature Communications</i> , 2020, 11, 5517.	5.8	5
10	Azamacrocycles and tertiary amines can be used to form size tuneable hollow structures or monodisperse oxide nanoparticles depending on the $\text{M}^{\text{TM}}$ source. <i>Dalton Transactions</i> , 2019, 48, 15470-15479.	1.6	5
11	Platform for Screening Abiotic/Biotic Interactions Using Indicator Displacement Assays. <i>Langmuir</i> , 2019, 35, 14230-14237.	1.6	3
12	C-H Olefination of Tryptophan Residues in Peptides: Control of Residue Selectivity and Peptide-Amino Acid Cross-linking. <i>Organic Letters</i> , 2019, 21, 7902-7907.	2.4	28
13	The structural and electronic properties of 3,3-azothiophene photo-switching systems. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1344-1353.	1.3	17
14	From phage display to structure: an interplay of enthalpy and entropy in the binding of the LDHSLHS polypeptide to silica. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4663-4672.	1.3	9
15	Distributions of Silica and Biopolymer Structural Components in the Spore Elater of <i>Equisetum arvense</i> , an Ancient Silicifying Plant. <i>Frontiers in Plant Science</i> , 2019, 10, 210.	1.7	6
16	Traditional materials from new sources - conflicts in analytical methods for calcium carbonate. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2019, 36, 366-373.	1.1	2
17	Postsynthetic Modification of Phenylalanine Containing Peptides by C-H Functionalization. <i>Organic Letters</i> , 2019, 21, 104-108.	2.4	26
18	Biogenic porous silica and silicon sourced from Mexican Giant Horsetail ( <i>Equisetum myriochaetum</i> ) and their application as supports for enzyme immobilization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 166, 195-202.	2.5	22

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19	A robust spectroscopic method for the determination of protein conformational composition " Application to the annealing of silk. <i>Acta Biomaterialia</i> , 2018, 73, 355-364.	4.1	37
20	Fluorescently-tagged polyamines for the staining of siliceous materials. <i>Plant Physiology and Biochemistry</i> , 2018, 125, 205-211.	2.8	3
21	Bioavailability of a novel form of silicon supplement. <i>Scientific Reports</i> , 2018, 8, 17022.	1.6	15
22	Interactions between Metal Oxides and Biomolecules: from Fundamental Understanding to Applications. <i>Chemical Reviews</i> , 2018, 118, 11118-11193.	23.0	167
23	Interactions at the Silica"Peptide Interface: Influence of the Extent of Functionalization on the Conformational Ensemble. <i>Langmuir</i> , 2018, 34, 8255-8263.	1.6	18
24	Do Material Discontinuities in Silica Affect Vibration Modes?. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4997-5003.	1.1	3
25	Intracellular Pathways Involved in Bone Regeneration Triggered by Recombinant Silk"Silica Chimeras. <i>Advanced Functional Materials</i> , 2018, 28, 1702570.	7.8	31
26	Osteoinductive recombinant silk fusion proteins for bone regeneration. <i>Acta Biomaterialia</i> , 2017, 49, 127-139.	4.1	42
27	Quantifying the efficiency of Hydroxyapatite Mineralising Peptides. <i>Scientific Reports</i> , 2017, 7, 7681.	1.6	8
28	A Review on Recent Patents and Applications of Inorganic Material Binding Peptides. <i>Recent Patents on Nanotechnology</i> , 2017, 11, 168-180.	0.7	11
29	Modeling of Infrared"Visible Sum Frequency Generation Microscopy Images of a Giant Liposome. <i>Microscopy and Microanalysis</i> , 2016, 22, 1128-1145.	0.2	2
30	Aqueous Peptide"TiO <sub>2</sub> Interfaces: Isoenergetic Binding via Either Entropically or Enthalpically Driven Mechanisms. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18620-18630.	4.0	45
31	Secondary Structure Transition and Critical Stress for a Model of Spider Silk Assembly. <i>Biomacromolecules</i> , 2016, 17, 427-436.	2.6	60
32	Isolation of a wide range of minerals from a thermally treated plant: <i>Equisetum arvense</i> , a Mare"s tale. <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 101-112.	1.1	15
33	Influence of silk"silica fusion protein design on silica condensation in vitro and cellular calcification. <i>RSC Advances</i> , 2016, 6, 21776-21788.	1.7	22
34	The nature of the silicaphilic fluorescence of PDMPO. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5938-5948.	1.3	11
35	The Importance and Clinical Relevance of Surfaces in Tissue Culture. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 152-164.	2.6	15
36	Peptide-directed crystal growth modification in the formation of ZnO. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3777-3788.	2.9	18

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37	Functional Material Features of <i>Bombyx mori</i> Silk Light versus Heavy Chain Proteins. <i>Biomacromolecules</i> , 2015, 16, 606-614.	2.6	54
38	Thermodynamic Study of Interactions Between ZnO and ZnO Binding Peptides Using Isothermal Titration Calorimetry. <i>Langmuir</i> , 2015, 31, 6814-6822.	1.6	30
39	ZnO Binding Peptides: Smart Versatile Tools for Controlled Modification of ZnO Growth Mechanism and Morphology. <i>Chemistry of Materials</i> , 2015, 27, 1950-1960.	3.2	36
40	Controlling the Dynamics of Cell Transition in Heterogeneous Cultures using Surface Chemistry. <i>Advanced Healthcare Materials</i> , 2015, 4, 593-601.	3.9	7
41	Control of silicification by genetically engineered fusion proteins: Silk-silica binding peptides. <i>Acta Biomaterialia</i> , 2015, 15, 173-180.	4.1	29
42	Interactions at the Silica-Peptide Interface: The Influence of Particle Size and Surface Functionality. <i>Langmuir</i> , 2014, 30, 227-233.	1.6	49
43	Preparation of hexagonal GeO <sub>2</sub> particles with particle size and crystallinity controlled by peptides, silk and silk-peptide chimeras. <i>Dalton Transactions</i> , 2014, 43, 16902-16910.	1.6	10
44	Triethylphosphite as a network forming agent enhances in vitro biocompatibility and corrosion protection of hybrid organic-inorganic sol-gel coatings for Ti6Al4V alloys. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7955-7963.	2.9	12
45	Development of an hydrophobic fluoro-silica surface for studying homotypic cancer cell aggregation-disaggregation as a single dynamic process in vitro. <i>Biomaterials Science</i> , 2014, 2, 1486-1496.	2.6	6
46	Prediction of Specific Biomolecule Adsorption on Silica Surfaces as a Function of pH and Particle Size. <i>Chemistry of Materials</i> , 2014, 26, 5725-5734.	3.2	125
47	Force Field and a Surface Model Database for Silica to Simulate Interfacial Properties in Atomic Resolution. <i>Chemistry of Materials</i> , 2014, 26, 2647-2658.	3.2	369
48	Directional Wetting in Anisotropic Inverse Opals. <i>Langmuir</i> , 2014, 30, 7615-7620.	1.6	31
49	New Insights into the Mechanism of ZnO Formation from Aqueous Solutions of Zinc Acetate and Zinc Nitrate. <i>Chemistry of Materials</i> , 2014, 26, 4119-4129.	3.2	91
50	Facile one-pot synthesis of amoxicillin-coated gold nanoparticles and their antimicrobial activity. <i>Gold Bulletin</i> , 2014, 47, 103-107.	1.1	39
51	Enhancing in vitro biocompatibility and corrosion protection of organic-inorganic hybrid sol-gel films with nanocrystalline hydroxyapatite. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3886-3896.	2.9	31
52	Tunable Anisotropy in Inverse Opals and Emerging Optical Properties. <i>Chemistry of Materials</i> , 2014, 26, 1622-1628.	3.2	71
53	Experimental Characterization of Peptide-Surface Interactions. , 2014, , 37-94.		4
54	Construction of silica-enhanced S-layer protein cages. <i>Acta Biomaterialia</i> , 2013, 9, 5689-5697.	4.1	14

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55	Titania Binding Peptides as Templates in the Biomimetic Synthesis of Stable Titania Nanosols: Insight into the Role of Buffers in Peptide-Mediated Mineralization. <i>Langmuir</i> , 2013, 29, 9464-9472.	1.6	43
56	Principles of Biofouling Protection in Marine Sponges: A Model for the Design of Novel Biomimetic and Bio-inspired Coatings in the Marine Environment?. <i>Marine Biotechnology</i> , 2013, 15, 375-398.	1.1	47
57	Chemistry of Aqueous Silica Nanoparticle Surfaces and the Mechanism of Selective Peptide Adsorption. <i>Journal of the American Chemical Society</i> , 2012, 134, 6244-6256.	6.6	349
58	Fabrication, characterisation and performance of hydrophilic and super-hydrophilic silica as cell culture surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 12141.	6.7	9
59	Silk-Silica Composites from Genetically Engineered Chimeric Proteins: Materials Properties Correlate with Silica Condensation Rate and Colloidal Stability of the Proteins in Aqueous Solution. <i>Langmuir</i> , 2012, 28, 4373-4381.	1.6	41
60	Bioinspired Silicification of Silica-Binding Peptide-Silk Protein Chimeras: Comparison of Chemically and Genetically Produced Proteins. <i>Biomacromolecules</i> , 2012, 13, 683-690.	2.6	39
61	Mussel adhesive protein inspired coatings: a versatile method to fabricate silica films on various surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 4790.	6.7	29
62	Peptide Adsorption on Silica Nanoparticles: Evidence of Hydrophobic Interactions. <i>ACS Nano</i> , 2012, 6, 6356-6363.	7.3	183
63	An overview of the fundamentals of the chemistry of silica with relevance to biosilicification and technological advances. <i>FEBS Journal</i> , 2012, 279, 1710-1720.	2.2	233
64	Entrapment of commercially important invertase in silica particles at physiological pH and the effect of pH and temperature on enzyme activity. <i>Materials Science and Engineering C</i> , 2012, 32, 785-789.	3.8	13
65	Combined release of platelet-rich plasma and 3D-mesenchymal stem cell encapsulation in alginate hydrogels modified by the presence of silica. <i>Journal of Materials Chemistry</i> , 2011, 21, 4086.	6.7	15
66	Poly(vinyl amine)-Silica Composite Nanoparticles: Models of the Silicic Acid Cytoplasmic Pool and as a Silica Precursor for Composite Materials Formation. <i>Biomacromolecules</i> , 2011, 12, 1772-1780.	2.6	42
67	Direct evidence of ZnO morphology modification via the selective adsorption of ZnO-binding peptides. <i>Journal of Materials Chemistry</i> , 2011, 21, 80-89.	6.7	63
68	Interactions of Amines with Silicon Species in Undersaturated Solutions Leads to Dissolution and/or Precipitation of Silica. <i>Langmuir</i> , 2011, 27, 15135-15145.	1.6	25
69	Genetically Engineered Chimeric Silk-Silver Binding Proteins. <i>Advanced Functional Materials</i> , 2011, 21, 2889-2895.	7.8	56
70	The Role of Non-Bonded Interactions in Silica Formation in Vitro. <i>ACS Symposium Series</i> , 2010, , 229-240.	0.5	2
71	Osteoinductive silk-silica composite biomaterials for bone regeneration. <i>Biomaterials</i> , 2010, 31, 8902-8910.	5.7	133
72	Synthesis of Enzyme and Quantum Dot in Silica by Combining Continuous Flow and Bioinspired Routes. <i>Silicon</i> , 2010, 2, 33-39.	1.8	15

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73	Antibiotic mediated synthesis of gold nanoparticles with potent antimicrobial activity and their application in antimicrobial coatings. <i>Journal of Materials Chemistry</i> , 2010, 20, 6789.	6.7	368
74	A Solution Study of Silica Condensation and Speciation with Relevance to in Vitro Investigations of Biosilicification. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9947-9955.	1.2	66
75	Facile Fabrication of Uniform Silica Films with Tunable Physical Properties Using Silicatein Protein from Sponges. <i>Langmuir</i> , 2010, 26, 4152-4159.	1.6	46
76	Nanoscale Control of Silica Particle Formation via Silk <sup>2</sup> Silica Fusion Proteins for Bone Regeneration. <i>Chemistry of Materials</i> , 2010, 22, 5780-5785.	3.2	80
77	Silica Condensation by a Silicatein I Homologue Involves Surface-Induced Transition to a Stable Structural Intermediate Forming a Saturated Monolayer. <i>Biomacromolecules</i> , 2010, 11, 3126-3135.	2.6	12
78	Synthesis of biomimetic polyamines. <i>Arkivoc</i> , 2010, 2009, 116-130.	0.3	24
79	Imidazole catalyzed silica synthesis: Progress toward understanding the role of histidine in (bio)silicification. <i>Journal of Materials Research</i> , 2009, 24, 1700-1708.	1.2	32
80	From biominerals to biomaterials: the role of biomolecule-mineral interactions. <i>Biochemical Society Transactions</i> , 2009, 37, 687-691.	1.6	24
81	Fabrication of Tuneable Thickness Silica Films on Solid Surfaces Using Amines and Proteins. <i>Silicon</i> , 2009, 1, 91-101.	1.8	10
82	A multi-technique study of the effect of aqueous aluminium speciation on hydrolytic gelation of aluminium (oxy)hydroxide. <i>Journal of Colloid and Interface Science</i> , 2009, 332, 122-129.	5.0	6
83	Chemical evidence for intrinsic $\text{Si}^{\text{TM}}$ within Equisetum cell walls. <i>Phytochemistry</i> , 2009, 70, 2089-2095.	1.4	50
84	An Overview of Silica in Biology: Its Chemistry and Recent Technological Advances. <i>Progress in Molecular and Subcellular Biology</i> , 2009, 47, 295-313.	0.9	29
85	Potentiometric determination of the formal hydrolysis ratio of aluminium species in aqueous solutions. <i>Analytica Chimica Acta</i> , 2008, 607, 61-73.	2.6	29
86	Controlled stabilisation of silicic acid below pH 9 using poly(1-vinylimidazole). <i>Journal of Materials Chemistry</i> , 2008, 18, 553-559.	6.7	31
87	Interactions of aluminium hydrolytic species with biomolecules. <i>New Journal of Chemistry</i> , 2008, 32, 1346.	1.4	22
88	From biosilicification to tailored materials: Optimizing hydrophobic domains and resistance to protonation of polyamines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5963-5968.	3.3	127
89	A novel approach to Au@SiO <sub>2</sub> core-shell spheres. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1212-1215.	1.5	32
90	Silica in Plants: Biological, Biochemical and Chemical Studies. <i>Annals of Botany</i> , 2007, 100, 1383-1389.	1.4	558

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91	Interactions of biomolecules with inorganic materials: principles, applications and future prospects. <i>Journal of Materials Chemistry</i> , 2007, 17, 2875.	6.7	84
92	Continuous Silica Coatings on Glass Fibers via Bioinspired Approaches. <i>Langmuir</i> , 2007, 23, 6677-6683.	1.6	33
93	Are Hydroxyl-Containing Biomolecules Important in Biosilicification? A Model Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4630-4638.	1.2	29
94	Defining biominerals and organominerals: Direct and indirect indicators of life. <i>Sedimentary Geology</i> , 2007, 201, 157-179.	1.0	150
95	Superhydrophobic to superhydrophilic transitions of sol-gel films for temperature, alcohol or surfactant measurement. <i>Materials Chemistry and Physics</i> , 2007, 103, 112-117.	2.0	53
96	Highly aluminium doped barium and strontium ferrite nanoparticles prepared by citrate auto-combustion synthesis. <i>Materials Research Bulletin</i> , 2007, 42, 281-287.	2.7	95
97	In Situ Ultrasonic Monitoring of Aluminum Ion Hydrolysis in Aqueous Solutions: Instrumentation, Techniques, and Comparisons to pH-Metry. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007, 56, 1329-1339.	2.4	6
98	The Interaction of 'Silicon' with Proteins: Part 2. The Role of Bioinspired Peptide and Recombinant Proteins in Silica Polymerization. <i>ACS Symposium Series</i> , 2007, , 328-347.	0.5	6
99	Modern biomaterials: a review of bulk properties and implications of surface modifications. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 1263-1277.	1.7	447
100	Plastron properties of a superhydrophobic surface. <i>Applied Physics Letters</i> , 2006, 89, 104106.	1.5	153
101	Interactions of Bovine Serum Albumin with Aluminum Polyoxocations and Aluminum Hydroxide. <i>Langmuir</i> , 2006, 22, 10078-10088.	1.6	37
102	A new stepwise synthesis of a family of propylamines derived from diatom silaffins and their activity in silicification. <i>Chemical Communications</i> , 2006, , 1521.	2.2	43
103	Comparative study of the influence of several silica precursors on collagen self-assembly and of collagen on $\text{Si}^{\text{TM}}$ speciation and condensation. <i>Journal of Materials Chemistry</i> , 2006, 16, 4220-4230.	6.7	55
104	Surface Tailoring for Controlled Protein Adsorption: Effect of Topography at the Nanometer Scale and Chemistry. <i>Journal of the American Chemical Society</i> , 2006, 128, 3939-3945.	6.6	718
105	Baking black opal in the desert sun: The importance of silica in desert varnish. <i>Geology</i> , 2006, 34, 537.	2.0	87
106	Novel nanocomposites from spider silk-silica fusion (chimeric) proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9428-9433.	3.3	194
107	Resolution of complex monosaccharide mixtures from plant cell wall isolates by high pH anion exchange chromatography. <i>Journal of Chromatography A</i> , 2006, 1128, 90-96.	1.8	32
108	Siliceous spicules in marine demosponges (example <i>Suberites domuncula</i> ). <i>Micron</i> , 2006, 37, 107-120.	1.1	115

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109	Quantification of Surface-Bound Proteins by Fluorometric Assay: Comparison with Quartz Crystal Microbalance and Amido Black Assay. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20572-20579.	1.2	46
110	Wetting and Wetting Transitions on Copper-Based Super-Hydrophobic Surfaces. <i>Langmuir</i> , 2005, 21, 937-943.	1.6	279
111	Spermine, spermidine and their analogues generate tailored silicas. <i>Journal of Materials Chemistry</i> , 2005, 15, 4629.	6.7	106
112	Synthesis of Sr <sub>x</sub> Co <sub>x</sub> Ti <sub>x</sub> Fe <sub>(12-2x)</sub> O <sub>19</sub> through sol-gel auto-ignition and its characterisation. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 292, 100-107.	1.0	71
113	A New Class II Poly (̇-Caprolactone)-Silica Hybrid: Synthesis and In Vitro Apatite Forming Ability. <i>Journal of Bioactive and Compatible Polymers</i> , 2005, 20, 437-454.	0.8	3
114	Putrescine homologues control silica morphogenesis by electrostatic interactions and the hydrophobic effect. <i>Chemical Communications</i> , 2005, , 3475.	2.2	52
115	A systematic investigation of aluminium ion speciation at high temperature. Part. 1. Solution studies. <i>Dalton Transactions</i> , 2005, , 2098.	1.6	46
116	Polypeptide-Templated Synthesis of Hexagonal Silica Platelets. <i>Journal of the American Chemical Society</i> , 2005, 127, 12577-12582.	6.6	208
117	Interpretation of Protein Adsorption: A Surface-Induced Conformational Changes. <i>Journal of the American Chemical Society</i> , 2005, 127, 8168-8173.	6.6	1,270
118	Porous materials show superhydrophobic to superhydrophilic switching. <i>Chemical Communications</i> , 2005, , 3135.	2.2	174
119	The static anion exchange method for generation of high purity aluminium polyoxocations and monodisperse aluminium hydroxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2005, 15, 3415.	6.7	25
120	On the role(s) of additives in bioinspired silicification. <i>Chemical Communications</i> , 2005, , 1113.	2.2	211
121	High-Temperature Speciation Studies of Al-Ion Hydrolysis. <i>Advanced Engineering Materials</i> , 2004, 6, 836-839.	1.6	31
122	Dual-Scale Roughness Produces Unusually Water-Repellent Surfaces. <i>Advanced Materials</i> , 2004, 16, 1929-1932.	11.1	488
123	Comparative study of their in vitro apatite-forming ability of poly(?-caprolactone)-silica sol-gels using three osteoconductivity tests (static, dynamic, and alternate soaking process). <i>Journal of Biomedical Materials Research Part B</i> , 2004, 69A, 718-727.	3.0	17
124	Towards an understanding of (bio)silicification: the role of amino acids and lysine oligomers in silicification. <i>Journal of Materials Chemistry</i> , 2004, 14, 2231.	6.7	152
125	The preparation and characterization of sol-gel zinc silicate glass particles with pyramid shape and millimetre size. <i>Journal of Materials Chemistry</i> , 2004, 14, 1744-1748.	6.7	8
126	The use of high aspect ratio photoresist (SU-8) for super-hydrophobic pattern prototyping. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1384-1389.	1.5	161



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127	Topography Driven Spreading. <i>Physical Review Letters</i> , 2004, 93, 036102.	2.9	221
128	Iron oxide-silica nanocomposites via sol-gel processing. <i>Materials Letters</i> , 2004, 58, 1696-1700.	1.3	11
129	Opaline films on patterned substrates by a simple self-assembly method. <i>Materials Letters</i> , 2004, 58, 3419-3423.	1.3	3
130	Model studies of colloidal silica precipitation using biosilica extracts from <i>Equisetum telmateia</i> . <i>Colloid and Polymer Science</i> , 2003, 281, 652-664.	1.0	76
131	A New Mechanism of Thermochromism for Silica Sol-gel Materials. <i>Monatshefte für Chemie</i> , 2003, 134, 381-385.	0.9	3
132	A statistical study of poly( $\epsilon$ -caprolactone) crystallinity in poly( $\epsilon$ -caprolactone)-silica sol-gel materials and their in vitro calcium phosphate-forming ability. <i>Polymer International</i> , 2003, 52, 1807-1819.	1.6	9
133	Silicification: The Processes by Which Organisms Capture and Mineralize Silica. <i>Reviews in Mineralogy and Geochemistry</i> , 2003, 54, 291-327.	2.2	123
134	Intrinsically Superhydrophobic Organosilica Sol-Gel Foams. <i>Langmuir</i> , 2003, 19, 5626-5631.	1.6	410
135	Studies of Biosilicas; Structural Aspects, Chemical Principles, Model Studies and the Future. <i>Progress in Molecular and Subcellular Biology</i> , 2003, 33, 269-299.	0.9	41
136	Synergy in macrocycle/SiO <sub>2</sub> -gel nano-composites. <i>Journal of Materials Chemistry</i> , 2002, 12, 3278-3284.	6.7	7
137	A Statistical Approach to the Effect of Sol-Gel Process Variables on the Physical Properties of Polymer [PLLA]-Silica Hybrid Materials for Use as Biomaterials. <i>Materials Research Society Symposia Proceedings</i> , 2002, 726, 1.	0.1	6
138	The systematic study of aluminium speciation in medium concentrated aqueous solutions. <i>Journal of Inorganic Biochemistry</i> , 2001, 87, 115-124.	1.5	70
139	Model studies of the precipitation of silica in the presence of aluminium; implications for biology and industry. <i>Journal of Inorganic Biochemistry</i> , 2000, 78, 331-339.	1.5	13
140	Biosilicification: the role of the organic matrix in structure control. <i>Journal of Biological Inorganic Chemistry</i> , 2000, 5, 537-550.	1.1	279
141	Rare earth doped sol-gel materials as potential absorbance standards. <i>Journal of Alloys and Compounds</i> , 2000, 300-301, 224-229.	2.8	8
142	Biogenic Silica: A Model of Amorphous Structure Control. , 1999, , 237-251.		3
143	Qualitative and Quantitative Studies of Neodymium Doped Silica Gel-Glasses. <i>Journal of Sol-Gel Science and Technology</i> , 1998, 13, 593-597.	1.1	5
144	Evaluation of the osteoblast response to a silica gel in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 1998, 9, 731-735.	1.7	48

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145	Aspects of the bioinorganic chemistry of silicon in conjunction with the biometals calcium, iron and aluminium. <i>Journal of Inorganic Biochemistry</i> , 1998, 69, 181-191.	1.5	68
146	Crystalline silica prepared at room temperature from aqueous solution in the presence of intrasilica bioextracts. <i>Chemical Communications</i> , 1998, , 2587-2588.	2.2	49
147	Preparation of silicas from silicon complexes: role of cellulose in polymerisation and aggregation control. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 2915.	1.7	73
148	THE PREPARATION AND CHARACTERISATION OF Sn-Si-O GELS. Part 1. SYNTHETIC STRATEGIES AND INITIAL CHARACTERISATION. , 1992, , 175-185.		3
149	THE PREPARATION AND CHARACTERISATION OF Sn-Si-O GELS. Part 2. THE EFFECT OF THERMAL TREATMENT. , 1992, , 187-194.		1
150	Spectroscopic Studies of Silica/Titania Gel Glasses. , 1992, , 461-466.		1
151	Structural studies of gel phases. Part 2.â€”Infrared spectroscopic study of silica monoliths; the interaction of water with surface species. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 3857-3862.	1.7	22
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