Florence Babonneau

List of Publications by Year
in descending order

238 papers	12,737 citations	20817 60 h-index	30922 102 g-index
249 all docs	249 docs citations	249 times ranked	11106 citing authors

#	Article	IF	Citations
1	Evolution of C-rich SiOC ceramics. International Journal of Materials Research, 2022, 97, 710-720.	0.3	3
2	Evolution of C-rich SiOC ceramics. International Journal of Materials Research, 2022, 97, 699-709.	0.3	0
3	Formation of ZrCâ€“SiC Composites from the Molecular Scale through the Synthesis of Multielement Polymers. Materials, 2021, 14, 3901.	2.9	2
4	A novel multinuclear solid-state NMR approach for the characterization of kidney stones. Magnetic Resonance, 2021, 2, 653-671.	1.9	4
5	Antibacterial properties of glycosylated surfaces: variation of the glucosidal moiety and fatty acid conformation of grafted microbial glycolipids. Molecular Systems Design and Engineering, 2020, 5, 1307-1316.	3.4	8
6	Investigating CaOx Crystal Formation in the Absence and Presence of Polyphenols under Microfluidic Conditions in Relation with Nephrolithiasis. Crystal Growth and Design, 2020, 20, 7683-7693.	3.0	6
7	Bone mineral: new insights into its chemical composition. Scientific Reports, 2019, 9, 8456.	3.3	161
8	Chemistry of a series of aluminum-modified polysilazanes: Synthesis, pyrolysis behaviour and microstructural evolution. Journal of the European Ceramic Society, 2019, 39, 183-194.	5.7	11
9	Organization of Bone Mineral: The Role of Mineralâ€“Water Interactions. Geosciences (Switzerland), 2018, 8, 466.	2.2	22
10	Rheological and thermal behaviours of a hyperbranched polycarbosilane. Applied Organometallic Chemistry, 2018, 32, e4443.	3.5	7
11	Structural Characterization of Hybrid Organicâ€“Inorganic Materials. , 2018, , 1375-1397.		1
12	Vibrational Signatures of Calcium Oxalate Polyhydrates. ChemistrySelect, 2018, 3, 8801-8812.	1.5	27
13	Template Synthesis of Iminodiacetic Acid Polysiloxane Immobilized Ligand Systems and their Metal Uptake Capacity. Silicon, 2017, 9, 563-575.	3.3	4
14	Interfacial Ca2+ environments in nanocrystalline apatites revealed by dynamic nuclear polarization enhanced 43Ca NMR spectroscopy. Nature Communications, 2017, 8, 14104.	12.8	55
15	Antibacterial properties of sophorolipid-modified gold surfaces against Gram positive and Gram negative pathogens. Colloids and Surfaces B: Biointerfaces, 2017, 157, 325-334.	5.0	42
16	Molecular Chemistry and Engineering of Boronâ€Modified Polyorganosilazanes as New Processable and Functional SiBCN Precursors. Chemistry - A European Journal, 2017, 23, 9076-9090.	3.3	42
17	Development of a Cradle-to-Grave Approach for Acetylated Acidic Sophorolipid Biosurfactants. ACS Sustainable Chemistry and Engineering, 2017, 5, 1186-1198.	6.7	69
18	Molecular design of melt-spinnable co-polymers as Siâ€“Bâ€“Câ€“N fiber precursors. Dalton Transactions, 2017, 46, 13510-13523.	3.3	16

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19	Hydroxyapatites: Key Structural Questions and Answers from Dynamic Nuclear Polarization. Analytical Chemistry, 2017, 89, 10201-10207.	6.5	23
20	Molecular Picture of the Adsorption of Ibuprofen and Benzoic Acid on Hydrated Amorphous Silica through DFT-D Calculations Combined with Solid-State NMR Experiments. Journal of Physical Chemistry C, 2017, 121, 17339-17347.	3.1	22
21	Implication of Water Molecules at the Silicaâ€“Ibuprofen Interface in Silica-Based Drug Delivery Systems Obtained through Incipient Wetness Impregnation. Journal of Physical Chemistry C, 2017, 121, 26833-26839.	3.1	22
22	Amorphous surface layer versus transient amorphous precursor phase in bone â€“ A case study investigated by solid-state NMR spectroscopy. Acta Biomaterialia, 2017, 59, 351-360.	8.3	44
23	Structural elucidation of silica present in kidney stones coming from Burkina Faso. Comptes Rendus Chimie, 2016, 19, 1573-1579.	0.5	12
24	Synthesis and characterization of immobilized-polysiloxane monoamine-thiol triacetic acid and its diamine and triamine derivatives. Journal of Sol-Gel Science and Technology, 2016, 78, 660-672.	2.4	6
25	Calcium oxalate precipitation by diffusion using laminar microfluidics: toward a biomimetic model of pathological microcalcifications. Lab on A Chip, 2016, 16, 1157-1160.	6.0	40
26	Structural Characterization of Hybrid Organicâ€“Inorganic Materials. , 2016, , 1-23.		0
27	Monitoring a polycycloaddition by the combination of dynamic rheology and FTIR spectroscopy. Polymer, 2015, 79, 283-289.	3.8	10
28	Nanoscale Platelet Formation by Monounsaturated and Saturated Sophorolipids under Basic pH Conditions. Chemistry - A European Journal, 2015, 21, 19265-19277.	3.3	27
29	Synthesis of Uniform, Monodisperse, Sophorolipid Twisted Ribbons. Chemistry - an Asian Journal, 2015, 10, 2419-2426.	3.3	21
30	Template Synthesis of Immobilized polysiloxane Diamine-Thiol tetraacetic acid Bi-Ligand system and its application for determination of metal ions. Phosphorus, Sulfur and Silicon and the Related Elements, 2015, 190, 1646-1657.	1.6	3
31	Biocidal Properties of a Glycosylated Surface: Sophorolipids on Au(111). ACS Applied Materials & Interfaces, 2015, 7, 18086-18095.	8.0	24
32	Probing atomic scale transformation of fossil dental enamel using Fourier transform infrared and nuclear magnetic resonance spectroscopy: A case study from the Tugen Hills (Rift Gregory, Kenya). Acta Biomaterialia, 2014, 10, 3952-3958.	8.3	24
33	Energetics and Structure of Polymerâ€Derived <scp><scp>Si</scp></scp>â€“(<scp><scp>B</scp></scp>â€“)<scp><scp>O</scp></scp>â€“<scp><scp>C</scp></scp> Glasses: Effect of the Boron Content and Pyrolysis Temperature. Journal of the American Ceramic Society, 2014, 97, 303-309.	3.8	31
34	Impact of collagen confinement vs. ionic substitutions on the local disorder in bone and biomimetic apatites. Materials Horizons, 2014, 1, 224-231.	12.2	21
35	Elaboration of ZrC-SiC composites by spark plasma sintering using polymer-derived ceramics. Ceramics International, 2014, 40, 15703-15709.	4.8	23
36	pH-triggered formation of nanoribbons from yeast-derived glycolipid biosurfactants. Soft Matter, 2014, 10, 3950-3959.	2.7	62

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37	One-Step Introduction of Broad-Band Mesoporosity in Silica Particles Using a Stimuli-Responsive Bioderived Glycolipid. ACS Sustainable Chemistry and Engineering, 2014, 2, 512-522.	6.7	4
38	Denoising NMR time-domain signal by singular-value decomposition accelerated by graphics processing units. Solid State Nuclear Magnetic Resonance, 2014, 61-62, 28-34.	2.3	21
39	Nano-structured zinc oxideâ€“cotton fibers: synthesis, characterization and applications. Journal of Materials Science: Materials in Electronics, 2013, 24, 3970-3975.	2.2	23
40	Accurate characterization of pure silicon-substituted hydroxyapatite powders synthesized by a new precipitation route. Acta Biomaterialia, 2013, 9, 6992-7004.	8.3	83
41	A Molecular Picture of the Adsorption of Glycine in Mesoporous Silica through NMR Experiments Combined with DFT-D Calculations. Journal of Physical Chemistry C, 2013, 117, 4104-4114.	3.1	60
42	Water-mediated structuring of bone apatite. Nature Materials, 2013, 12, 1144-1153.	27.5	250
43	Probing the mobility of ibuprofen confined in MCM-41 materials using MAS-PFG NMR and hyperpolarised-129Xe NMR spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 18805.	2.8	25
44	Whewellite, CaC2O4â‹…H2O: structural study by a combined NMR, crystallography and modelling approach. CrystEngComm, 2013, 15, 8840.	2.6	40
45	Solid state NMR characterization of phenylphosphonic acid encapsulated in SBA-15 and aminopropyl-modified SBA-15. Microporous and Mesoporous Materials, 2013, 166, 109-116.	4.4	24
46	Heterogeneous structure and in vitro degradation behavior of wet-chemically derived nanocrystalline silicon-containing hydroxyapatite particles. Acta Biomaterialia, 2013, 9, 4856-4867.	8.3	43
47	A carbonate-fluoride defect model for carbonate-rich fluorapatite. American Mineralogist, 2013, 98, 1066-1069.	1.9	69
48	First-Principles Calculation of NMR Parameters Using the Gauge Including Projector Augmented Wave Method: A Chemistâ€™s Point of View. Chemical Reviews, 2012, 112, 5733-5779.	47.7	446
49	Synthesis of Polysiloxane-Immobilized Monoamine, Diamine, and Triamine Ligand Systems in the Presence of CTAB and Their Applications. Phosphorus, Sulfur and Silicon and the Related Elements, 2012, 187, 392-402.	1.6	3
50	Biosurfactant-mediated one-step synthesis of hydrophobic functional imogolite nanotubes. RSC Advances, 2012, 2, 426-435.	3.6	20
51	Nanostructured copper oxide-cotton fibers: synthesis, characterization, and applications. International Nano Letters, 2012, 2, 1.	5.0	57
52	In Situ Time-Resolved SAXS Study of the Formation of Mesostructured Organically Modified Silica through Modeling of Micelles Evolution during Surfactant-Templated Self-Assembly. Langmuir, 2012, 28, 17477-17493.	3.5	25
53	The predominant role of collagenÂin the nucleation, growth, structureÂand orientationÂofÂbone apatite. Nature Materials, 2012, 11, 724-733.	27.5	482
54	Unusual, pH-Induced, Self-Assembly Of Sophorolipid Biosurfactants. ACS Nano, 2012, 6, 4763-4776.	14.6	97

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55	Solâ€“gel encapsulation of cresol red in presence of surfactants. Journal of Sol-Gel Science and Technology, 2012, 62, 117-125.	2.4	31
56	On the shrinkage during pyrolysis of thin films and bulk components: The case of a hybrid silica gel precursor for SiOC glasses. Journal of the European Ceramic Society, 2012, 32, 627-632.	5.7	21
57	Controlled collagen assembly to build dense tissue-like materials for tissue engineering. Soft Matter, 2011, 7, 9659.	2.7	31
58	Structural Insights on Nitrogen-Containing Hydrothermal Carbon Using Solid-State Magic Angle Spinning ¹³C and ¹⁵N Nuclear Magnetic Resonance. Journal of Physical Chemistry C, 2011, 115, 8976-8982.	3.1	97
59	Kinetics of the Formation of 2D-Hexagonal Silica Nanostructured Materials by Nonionic Block Copolymer Templating in Solution. Journal of Physical Chemistry B, 2011, 115, 11330-11344.	2.6	64
60	Investigation of the Interface in Silica-Encapsulated Liposomes by Combining Solid State NMR and First Principles Calculations. Journal of the American Chemical Society, 2011, 133, 16815-16827.	13.7	69
61	Hydrothermal Carbon from Biomass: Structural Differences between Hydrothermal and Pyrolyzed Carbons via ¹³C Solid State NMR. Langmuir, 2011, 27, 14460-14471.	3.5	248
62	Mesostructured silica from amino acid-based surfactant formulations and sodium silicate at neutral pH. Journal of Sol-Gel Science and Technology, 2011, 58, 170-174.	2.4	13
63	SiOC Ceramic Monoliths with Hierarchical Porosity. International Journal of Applied Ceramic Technology, 2010, 7, 528-535.	2.1	12
64	Extraction of Co, Ni, Cu, Zn and Cd ions using 2-aminophenylaminopropylpolysiloxane. Environmental Chemistry Letters, 2010, 8, 311-316.	16.2	10
65	New perspectives in the PAW/GIPAW approach: JP-O-Si coupling constants, antisymmetric parts of shift tensors and NQR predictions. Magnetic Resonance in Chemistry, 2010, 48, S86-S102.	1.9	42
66	Solid-state nuclear magnetic resonance: A valuable tool to explore organic-inorganic interfaces in silica-based hybrid materials. Comptes Rendus Chimie, 2010, 13, 58-68.	0.5	43
67	Cross-linked polyethylene@silica: the first full interpenetrating network hybrid particles. Journal of Materials Chemistry, 2010, 20, 9515.	6.7	11
68	Solution State NMR Techniques Applied to Solid State Samples: Characterization of Benzoic Acid Confined in MCM-41. Journal of Physical Chemistry C, 2010, 114, 8884-8891.	3.1	46
69	Solâ^'Gel Processing of a Glycolated Cyclic Organosilane and Its Pyrolysis to Silicon Oxycarbide Monoliths with Multiscale Porosity and Large Surface Areas. Chemistry of Materials, 2010, 22, 1509-1520.	6.7	46
70	Sophorolipids: a yeast-derived glycolipid as greener structure directing agents for self-assembled nanomaterials. Green Chemistry, 2010, 12, 1564.	9.0	62
71	Organically Modified Ordered Mesoporous Siliceous Solids. , 2009, , 283-308.		10
72	Solid-state NMR characterization of drug-model molecules encapsulated in MCM-41 silica. Pure and Applied Chemistry, 2009, 81, 1345-1355.	1.9	47

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73	Aerosol-generated mesoporous silicon oxycarbide particles. Pure and Applied Chemistry, 2009, 81, 1449-1457.	1.9	11
74	Preparation and solid state NMR characterization of phosphonates encapsulated in raw and organically modified SBA-15. Materials Research Society Symposia Proceedings, 2009, 1227, 40601.	0.1	1
75	Nanostructuring of Hybrid Silicas through a Selfâ€Recognition Process. Chemistry - A European Journal, 2009, 15, 5002-5005.	3.3	17
76	Covalent grafting of organoalkoxysilanes on silica surfaces in water-rich medium as evidenced by 29Si NMR. Journal of Sol-Gel Science and Technology, 2009, 50, 152-157.	2.4	62
77	Influence of mesoporous structure type on the controlled delivery of drugs: release of ibuprofen from MCM-48, SBA-15 and functionalized SBA-15. Journal of Sol-Gel Science and Technology, 2009, 50, 421-429.	2.4	136
78	Introducing ecodesign in silica solâ€“gel materials. Journal of Materials Chemistry, 2009, 19, 8537.	6.7	128
79	New Strategy for the Synthesis of Diethylenetriaminetetraacetic Acid Functionalized Polysiloxane Ligand Systems. Journal of Dispersion Science and Technology, 2009, 30, 684-690.	2.4	2
80	New Monofunctional POSS and Its Utilization as Dewetting Additive in Methacrylate Based Free-Standing Films. Chemistry of Materials, 2009, 21, 4163-4171.	6.7	27
81	Preparation of ethylenediaminetriacetic acid silica-gel immobilised ligand system and its application for trace metal analysis in aqueous samples. International Journal of Environmental Analytical Chemistry, 2009, 89, 1057-1069.	3.3	23
82	GIPAW (gauge including projected augmented wave) and local dynamics in 13C and 29Si solid state NMR: the study case of silsesquioxanes (RSiO1.5)8. Physical Chemistry Chemical Physics, 2009, 11, 6953.	2.8	27
83	Structural Characterization of Hydrothermal Carbon Spheres by Advanced Solid-State MAS ‹sup›13‹/sup›C NMR Investigations. Journal of Physical Chemistry C, 2009, 113, 9644-9654.	3.1	392
84	Organo-modified mesoporous silicas for organic pollutant removal in water: Solid-state NMR study of the organic/silica interactions. Microporous and Mesoporous Materials, 2008, 110, 534-542.	4.4	40
85	Nuclear Magnetic Resonance as Investigation Tool for Pollutant/Sorbent Interactions. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 31-46.	0.2	0
86	Organosilicas based on purineâ€“pyrimidinebase pair assemblies: a solid state NMR point of view. Journal of Materials Chemistry, 2008, 18, 392-399.	6.7	32
87	Time-Resolved in Situ Raman and Small-Angle X-ray Diffraction Experiments: From Silica-Precursor Hydrolysis to Development of Mesoscopic Order in SBA-3 Surfactant-Templated Silica. Chemistry of Materials, 2008, 20, 1161-1172.	6.7	17
88	On the mechanism of formation of SBA-1 and SBA-3 as studied by in situ synchrotron XRD. Studies in Surface Science and Catalysis, 2008, , 103-108.	1.5	2
89	A new example of periodic mesoporous SiCO glasses with cubic symmetry stable at 1000.DEG.C. Journal of the Ceramic Society of Japan, 2008, 116, 449-453.	1.1	21
90	Macrocyclic Polysiloxane Immobilized Ligand System and Its Structural Characterization. Journal of Dispersion Science and Technology, 2007, 28, 445-453.	2.4	3

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91	Synthesis and Characterization of Mg-Containing Nano-Apatite. Key Engineering Materials, 2007, 361-363, 47-50.	0.4	3
92	Nanostructuring of Hybrid Silicas: New Approach to Bridged Silsesquioxanes with Purine-Pyrimidine Base Pairs as Bridging Units. Materials Research Society Symposia Proceedings, 2007, 1007, 1.	0.1	0
93	Covalent Grafting of Organoalkoxysilanes on Silica Surfaces in Water-Rich Medium as Evidenced by 29Si NMR. Materials Research Society Symposia Proceedings, 2007, 1007, 1.	0.1	1
94	New Insights on the High-Temperature Nanostructure Evolution of SiOC and B-Doped SiBOC Polymer-Derived Glasses. Chemistry of Materials, 2007, 19, 5694-5702.	6.7	123
95	Advanced Solid State NMR Techniques for the Characterization of Solâ€“Gel-Derived Materials. Accounts of Chemical Research, 2007, 40, 738-746.	15.6	97
96	Structure and In Vitro Solubility of Silicon-Substituted Hydroxyapatite. Key Engineering Materials, 2007, 361-363, 63-66.	0.4	6
97	Design of a Series of PreceramicB-Tri(methylamino)borazine-Based Polymers as Fiber Precursors:Â Architecture, Thermal Behavior, and Melt-Spinnabilityâ€. Macromolecules, 2007, 40, 1018-1027.	4.8	39
98	Composite Particles of Polyethylene @ Silica. Journal of the American Chemical Society, 2007, 129, 98-108.	13.7	54
99	Solid-State NMR Characterization of the Surfactantâ^'Silica Interface in Templated Silicas:Â Acidic versus Basic Conditions. Chemistry of Materials, 2007, 19, 1343-1354.	6.7	98
100	Structural Characterization and Protein Adsorption Property of Hydroxyapatite Particles Modified With Zinc Ions. Journal of the American Ceramic Society, 2007, 90, 565-569.	3.8	44
101	A new route synthesis of immobilized-polysiloxane iminodiacetic acid ligand system, its characterization and applications. Materials Letters, 2007, 61, 4553-4558.	2.6	19
102	Extraction of metal ions (Fe3+, Co2+, Ni2+, Cu2+ and Zn2+) using immobilized-polysiloxane iminobis(n-2-aminophenylacetamide) ligand system. Journal of Sol-Gel Science and Technology, 2007, 41, 3-10.	2.4	7
103	Nanocrystalline Mesoporous Î³-Alumina Powders â€œUPMC1 Materialâ€•Gathers Thermal and Chemical Stability with High Surface Area. Chemistry of Materials, 2006, 18, 5238-5243.	6.7	118
104	Solid-State NMR Study of Ibuprofen Confined in MCM-41 Material. Chemistry of Materials, 2006, 18, 6382-6390.	6.7	242
105	Evolution of C-rich SiOC ceramics: Part II. Characterization by high lateral resolution techniques: electron energy-loss spectroscopy, high-resolution TEM and energy-filtered TEM. International Journal of Materials Research, 2006, 97, 710-720.	0.8	29
106	Selective Protein Adsorption Property and Structure of Nano-Crystalline Hydroxy-Carbonate Apatite. Key Engineering Materials, 2006, 309-311, 503-506.	0.4	11
107	Characterisation of the grafting of (3-aminoethyl)aminopropyltrimethoxy silane on precipitated silica. New Journal of Chemistry, 2006, 30, 797.	2.8	18
108	Some triple resonance experiments in solid-state CP MAS NMR: 51V/29Si, 31P/13C, and 29Si/13C. Comptes Rendus Chimie, 2006, 9, 466-471.	0.5	17

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109	Selective protein adsorption property and characterization of nano-crystalline zinc-containing hydroxyapatite. Acta Biomaterialia, 2006, 2, 69-74.	8.3	166
110	Synthesis and Structural Characterization of a New Macrocyclic Polysiloxane-immobilized Ligand System. Monatshefte FÃ¼r Chemie, 2006, 137, 263-275.	1.8	14
111	Evolution of C-rich SiOC ceramics. International Journal of Materials Research, 2006, 97, 699-709.	0.3	65
112	Controlling the chemistry, morphology and structure of boron nitride-based ceramic fibers through a comprehensive mechanistic study of the reactivity of spinnable polymers with ammonia. Journal of Materials Chemistry, 2006, 16, 3126.	6.7	45
113	Solid State NMR Characterization of Nano-crystalline hydroxy-carbonate Apatite Using 1H-31P-13C Triple Resonance Experiments. Materials Research Society Symposia Proceedings, 2006, 984, 1.	0.1	5
114	Immobilized-polysiloxane ethyl amino benzoate derivatives. Synthesis, characterizations and applications. Reactive and Functional Polymers, 2005, 63, 199-213.	4.1	5
115	Synthesis of periodic mesoporous organosilica from bis(triethoxysilyl)methane and their pyrolytic conversion into porous SiCO glasses. Journal of the European Ceramic Society, 2005, 25, 265-270.	5.7	33
116	Phosphorous-doped MCM-41 as bioactive material. Solid State Sciences, 2005, 7, 233-237.	3.2	78
117	Synthesis, characterization and applications of polysiloxane networks with immobilized pyrogallol ligands. Applied Organometallic Chemistry, 2005, 19, 759-767.	3.5	13
118	11B and 15N solid state NMR investigation of a boron nitride preceramic polymer prepared by ammonolysis of borazine. Journal of the European Ceramic Society, 2005, 25, 129-135.	5.7	43
119	Structural and Microstructural Evolution During Pyrolysis of Hybrid Polydimethylsiloxane-Titania Nanocomposites. Journal of Sol-Gel Science and Technology, 2005, 34, 53-62.	2.4	38
120	Thermal Stability of Periodic Mesoporous SiCO Glasses. Journal of Sol-Gel Science and Technology, 2005, 33, 99-102.	2.4	14
121	Structural Control in Germania Hybrid Organicâ"Inorganic Materials. Chemistry of Materials, 2005, 17, 3172-3180.	6.7	48
122	Modification and Characterization of Si-Based Nanobuilding Blocks Precursors for Hybrid Materials. Materials Research Society Symposia Proceedings, 2004, 847, 180.	0.1	4
123	The use of multinuclear solid state NMR for the characterization of siloxane-oxide hybrid nanocomposites. Materials Research Society Symposia Proceedings, 2004, 847, 385.	0.1	1
124	Silica and Hybrid Silica Gels Revisited: New Insight by Solid State Nuclear Magnetic Resonance. Materials Research Society Symposia Proceedings, 2004, 847, 18.	0.1	1
125	Crystallization Behavior of Novel Silicon Boron Oxycarbide Glasses. Journal of the American Ceramic Society, 2004, 87, 203-208.	3.8	76
126	Advances in Characterisation Methods for Sol-Gel Derived Materials: High Resolution Solid State Nuclear Magnetic Resonance. Journal of Sol-Gel Science and Technology, 2004, 31, 9-17.	2.4	17

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127	Solid State NMR Characterisation of Encapsulated Molecules in Mesoporous Silica. Journal of Sol-Gel Science and Technology, 2004, 31, 219-223.	2.4	82
128	High-resolution15N solid-state NMR investigations on borazine-based precursors. Applied Organometallic Chemistry, 2004, 18, 227-232.	3.5	15
129	Combinedab initio computational and experimental multinuclear solid-state magnetic resonance study of phenylphosphonic acid. Magnetic Resonance in Chemistry, 2004, 42, 445-452.	1.9	88
130	Ab initio Calculations of NMR Parameters of Highly Coordinated Oxygen Sites in Aluminosilicates.. ChemInform, 2004, 35, no.	0.0	0
131	Solid state 47,49Ti, 87Sr and 137Ba NMR characterisation of mixed barium/strontium titanate perovskites. Solid State Nuclear Magnetic Resonance, 2004, 26, 147-152.	2.3	30
132	Solid state effects in the IR spectrum of Octahydridosilasesquioxane. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 1609-1616.	3.9	10
133	Solid-State 17O NMR Characterization of PDMSâ˜'MxOy (M = Ge(IV), Ti(IV), Zr(IV), Nb(V), and Ta(V)) Organicâ˜'Inorganic Nanocomposites. Chemistry of Materials, 2004, 16, 521-529.	6.7	43
134	Ab Initio Calculations of NMR Parameters of Highly Coordinated Oxygen Sites in Aluminosilicates. Journal of Physical Chemistry B, 2004, 108, 13249-13253.	2.6	57
135	Synthesis, Characterization and Applications of Immobilized Iminodiacetic Acid-Modified Silica. Journal of Sol-Gel Science and Technology, 2003, 28, 255-265.	2.4	47
136	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 26, 279-283.	2.4	67
137	Basic Catalyzed Synthesis of Hybrid Sol-Gel Materials Based on 3-Glycidoxypropyltrimethoxysilane. Journal of Sol-Gel Science and Technology, 2003, 26, 303-306.	2.4	22
138	Hybrid 3D Ordered Mesoporous Thin Films Made from Organosiloxane Precursors. Journal of Sol-Gel Science and Technology, 2003, 26, 587-591.	2.4	11
139	B/C/N Materials and B4C Synthesized by a Non-Oxide Solâ€"Gel Process.. ChemInform, 2003, 34, no.	0.0	0
140	Vacancy Ordering and Hostâ€"Guest Interactions in CdPS3 Intercalates: Results from Multidimensional Solid State NMR.. ChemInform, 2003, 34, no.	0.0	0
141	Metal uptake by porous iminobis(N-2-aminoethylacetamide)-modified polysiloxane ligand system. Microporous and Mesoporous Materials, 2003, 65, 299-310.	4.4	23
142	Controlling the Thermal Polymerization Process of Hybrid Organicâ˜'Inorganic Films Synthesized from 3-Methacryloxypropyltrimethoxysilane and 3-Aminopropyltriethoxysilane. Chemistry of Materials, 2003, 15, 4790-4797.	6.7	48
143	17O MAS NMR Study of the Bonding Mode of Phosphonate Coupling Molecules in a Titanium Oxo-Alkoxo-Phosphonate and in Titania-Based Hybrid Materials. Chemistry of Materials, 2003, 15, 4098-4103.	6.7	60
144	Humidity-controlled mesostructuration in CTAB-templated silica thin film processing. The existence of a modulable steady state. Journal of Materials Chemistry, 2003, 13, 61-66.	6.7	193

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145	B/C/N Materials and B4C Synthesized by a Non-Oxide Solâ˜Gel Process. Chemistry of Materials, 2003, 15, 755-764.	6.7	39
146	Orderâ˜Disorder Transitions and Evolution of Silica Structure in Self-Assembled Mesostructured Silica Films Studied through FTIR Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 4711-4717.	2.6	196
147	Synthesis and Characterization of Transparent PDMSâ˜Metal-Oxo Based Organicâ˜Inorganic Nanocomposites. Chemistry of Materials, 2003, 15, 3026-3034.	6.7	78
148	Vacancy ordering and hostâ€“guest interactions in CdPS3 intercalates: Results from multidimensional solid state NMR. Physical Chemistry Chemical Physics, 2003, 5, 1306.	2.8	10
149	Solid-state NMR investigations of the polymer route to SiBCN ceramics. Canadian Journal of Chemistry, 2003, 81, 1359-1369.	1.1	38
150	Encapsulation of Ibuprofen in Mesoporous Silica: Solid State NMR Characterization. Materials Research Society Symposia Proceedings, 2003, 775, 3261.	0.1	27
151	Periodic Mesoporous SiCO Glasses with Cubic Symmetry Stable at 1000Â°C. Materials Research Society Symposia Proceedings, 2003, 775, 3251.	0.1	3
152	Structure/Property Relationship in Silicon Oxycarbide Glasses and Ceramics Obtained via the Sol-Gel Method. Materials Science Forum, 2002, 386-388, 359-364.	0.3	3
153	Neutron Diffraction Study of Nanocrystalline Oxycarbide Glasses Prepared by Sol-Gel. Materials Science Forum, 2002, 386-388, 275-280.	0.3	3
154	Synthesis and characterization of periodic porous benzene-silica hybrid powders with cubic and hexagonal symmetries. Materials Research Society Symposia Proceedings, 2002, 726, 1.	0.1	6
155	Microstructural Evolution and Order-Disorder Transitions in Mesoporous Silica Films Studied by FTIR Spectroscopy. Materials Research Society Symposia Proceedings, 2002, 726, 1.	0.1	3
156	Directing role of pH and ethanol vapour on the formation of 2D or 3D mesostructured silica and hybrid organo-silica thin films. New Journal of Chemistry, 2002, 26, 1270-1272.	2.8	18
157	The first direct probing of porosity on supported mesoporous silica thin films through hyperpolarised129Xe NMR. Chemical Communications, 2002, , 2476-2477.	4.1	41
158	In-Situ SAXS Studies on the Formation of Silicate/Surfactant Mesophases with Solubilized Benzene under Acidic Conditions. Langmuir, 2002, 18, 10053-10057.	3.5	24
159	Phase transformation during cubic mesostructured silica film formation. Chemical Communications, 2002, , 748-749.	4.1	48
160	An in Situ Study of Mesostructured CTABâ˜Silica Film Formation during Dip Coating Using Time-Resolved SAXS and Interferometry Measurements. Chemistry of Materials, 2002, 14, 931-939.	6.7	198
161	The structure of porous silicaâ€“polysiloxane hybrid materials. Materials Science and Engineering C, 2002, 21, 143-150.	7.3	17
162	High resolution solid state NMR investigation of various boron nitride preceramic polymers. Journal of Organometallic Chemistry, 2002, 657, 75-82.	1.8	56

#	Article	IF	Citations
163	Chemically Derived BN Ceramics: Extensive11B and15N Solid-State NMR Study of a Preceramic Polyborazilene. Chemistry of Materials, 2001, 13, 1700-1707.	6.7	98
164	Thermal cross-linking and pyrolytic conversion of poly(ureamethylvinyl)silazanes to silicon-based ceramics. Applied Organometallic Chemistry, 2001, 15, 820-832.	3.5	147
165	Solâ€Gelâ€Derived Siliconâ€Boron Oxycarbide Glasses Containing Mixed Silicon Oxycarbide (SiC_xO_{4â^'x}) and Boron Oxycarbide (BC_yO_{3â^'y}) Units. Journal of the American Ceramic Society, 2001, 84, 2160-2164.	3.8	62
166	Nuclear magnetic resonance techniques for the structural characterization of siloxaneâ€“oxide hybrid materials. Polyhedron, 2000, 19, 315-322.	2.2	83
167	Hybrid RSiO1.5/B2O3 Gels from Modified Silicon Alkoxides and Boric Acid. Journal of Sol-Gel Science and Technology, 2000, 18, 11-19.	2.4	75
168	Phenyl-functionalized silicate mesophases with hexagonal or cubic symmetries: influence of synthesis parameters.. Studies in Surface Science and Catalysis, 2000, 129, 287-294.	1.5	17
169	Neutral Alkoxysilanes from Silica. Journal of the American Chemical Society, 2000, 122, 10063-10072.	13.7	54
170	Competitive Polymerization between Organic and Inorganic Networks in Hybrid Materials. Chemistry of Materials, 2000, 12, 3726-3732.	6.7	112
171	Preparation and properties of silica hybrid gels containing phytic acid. Journal of Materials Chemistry, 2000, 10, 387-393.	6.7	16
172	The True Structure of Hexagonal Mesophase-Templated Silica Films As Revealed by X-ray Scattering:Â Effects of Thermal Treatments and of Nanoparticle Seeding. Chemistry of Materials, 2000, 12, 1721-1728.	6.7	187
173	Thermal evolution and crystallisation of polydimethylsiloxaneâ€“zirconia nanocomposites prepared by the solâ€“gel method. Journal of the European Ceramic Society, 1999, 19, 2849-2858.	5.7	37
174	Title is missing!. Journal of Sol-Gel Science and Technology, 1999, 14, 39-48.	2.4	44
175	Structural characterization of organically-modified porous silicates synthesized using CTA+ surfactant and acidic conditions. Journal of Materials Chemistry, 1999, 9, 175-178.	6.7	98
176	Synthesis and characterization of poly(aminoborane) as a new boron nitride precursor. Polymers for Advanced Technologies, 1999, 10, 702-712.	3.2	101
177	Thermal Decomposition of Poly(methylsilsesquicarbodiimide) to Amorphous Siâ^'Câ^'N Ceramics. Chemistry of Materials, 1999, 11, 412-420.	6.7	34
178	Organically Modified SiO2â^'B2O3 Gels Displaying a High Content of Borosiloxane (Bâ^'Oâ^'Siâ‹®) Bonds. Chemistry of Materials, 1999, 11, 910-919.	6.7	152
179	NMR Studies on Hydrolysis and Condensation Reactions of Alkoxysilanes Containing Siâ€”H Bonds. Journal of Sol-Gel Science and Technology, 1998, 13, 75-80.	2.4	26
180	15N cross-polarization using the inversion-recovery cross-polarization technique and11B magic angle spinning NMR studies of reference compounds containing Bâ€”N bonds. Magnetic Resonance in Chemistry, 1998, 36, 407-414.	1.9	57

#	Article	IF	Citations
181	Resolution enhancement in solid-state MQ-MAS experiments achieved by composite decoupling. Magnetic Resonance in Chemistry, 1998, 36, 956-959.	1.9	36
182	Sol-gel synthesis of SiBOC glasses. Journal of Non-Crystalline Solids, 1998, 224, 173-183.	3.1	55
183	Highly Porous Polyhedral Silsesquioxane Polymers. Synthesis and Characterization. Journal of the American Chemical Society, 1998, 120, 8380-8391.	13.7	373
184	17O Solution NMR Characterization of the Preparation of Solâˆ'Gel Derived SiO2/TiO2and SiO2/ZrO2Glasses. Chemistry of Materials, 1997, 9, 2385-2394.	6.7	69
185	Unsupported SiO2-based organicâ€"inorganic membranes. Journal of Materials Chemistry, 1997, 7, 67-73.	6.7	39
186	17O NMR investigation of chemical homogeneity in hybrid systems. Journal of Sol-Gel Science and Technology, 1997, 8, 553-556.	2.4	6
187	Design of homogeneous hybrid materials through a careful control of the synthetic procedure. Journal of Sol-Gel Science and Technology, 1997, 8, 567-570.	2.4	14
188	Crystallisation behaviour and polytype transformation of polymer-derived silicon carbide. Journal of the European Ceramic Society, 1997, 17, 659-666.	5.7	29
189	Organosilicon Polymers?Synthesis, Architecture, Reactivity and Applications. Applied Organometallic Chemistry, 1997, 11, 71-106.	3.5	97
190	Sol-gel synthesis and NMR characterization of ceramics. Ceramics International, 1997, 23, 13-18.	4.8	28
191	Gel Precursor to Silicon Oxycarbide Glasses with Ultrahigh Ceramic Yield. Journal of the American Ceramic Society, 1997, 80, 999-1004.	3.8	43
192	A Processable Mullite Precursor Prepared by Reacting Silica and Aluminum Hydroxide with Triethanolamine in Ethylene Glycol: Structural Evolution on Pyrolysis. Journal of the American Ceramic Society, 1997, 80, 2597-2606.	3.8	33
193	29Si and13C NMR Investigation of the Polysilane-to-Poly(carbosilane) Conversion of Poly(methylchlorosilanes) Using Cross-Polarization and Inversion Recovery Cross-Polarization Techniques. Chemistry of Materials, 1996, 8, 1415-1428.	6.7	27
194	29Si MAS NMR investigation of the pyrolysis process of cross-linked polysiloxanes prepared from polymethylhydrosiloxane. Journal of Materials Chemistry, 1996, 6, 1673.	6.7	36
195	Nmr Characterization of the Chemical Homogeneity in Sol-Gel Derived Siloxane-Silica Materials. Materials Research Society Symposia Proceedings, 1996, 435, 119.	0.1	8
196	The Evolutionary Process during Pyrolytic Transformation of Poly(N-methylsilazane) from a Preceramic Polymer into an Amorphous Silicon Nitride/Carbon Composite. Journal of the American Ceramic Society, 1995, 78, 137-145.	3.8	58
197	Structural Characterization and High-Temperature Behavior of Silicon Oxycarbide Glasses Prepared from Sol-Gel Precursors Containing Si-H Bonds. Journal of the American Ceramic Society, 1995, 78, 379-387.	3.8	259
198	Structural Characterization of Sol-Gel Derived Oxycarbide Glasses. 2. Study of the Thermal Stability of the Silicon Oxycarbide Phase. Chemistry of Materials, 1995, 7, 975-981.	6.7	117

#	Article	IF	Citations
199	First Direct Observation by 17O Liquid NMR of Co-condensation Reactions between Methyl-Substituted Silicon Alkoxides. Chemistry of Materials, 1995, 7, 1050-1052.	6.7	30
200	Characterization of methyl-substituted silica gels with Siâ€“H functionalities. Journal of Materials Chemistry, 1995, 5, 1363-1374.	6.7	52
201	NMR Characterization of Ceramic Materials Derived from Preceramic Polymers. , 1995, , 103-123.		4
202	Chemistry of Hybrid Organic-Inorganic Materials Synthesized via Sol-Gel. Materials Science Forum, 1994, 152-153, 313-318.	0.3	9
203	Physico-Chemical Properties of an Hybrid Glass. Advanced Materials Research, 1994, 1-2, 427-432.	0.3	4
204	Characterization of the hydrolysis and polymerization processes of methacryloxypropyltrimethoxysilane. Journal of Sol-Gel Science and Technology, 1994, 2, 185-188.	2.4	53
205	Investigation of the sol-gel chemistry of ethylacetoacetate modified aluminum sec-butoxide. Journal of Sol-Gel Science and Technology, 1994, 3, 157-168.	2.4	31
206	Structural Characterization of Sol-Gel Derived Oxycarbide Glasses. 1. Study of the Pyrolysis Process. Chemistry of Materials, 1994, 6, 796-802.	6.7	156
207	Sol-gel precursors: a spectroscopic study of transesterification reactions between silicon and titanium alkoxides. Journal of Non-Crystalline Solids, 1994, 167, 29-36.	3.1	31
208	Sol-gel synthesis of a siloxypolycarbosilane gel and its pyrolytic conversion to silicon oxycarbide. Chemistry of Materials, 1994, 6, 51-57.	6.7	51
209	Influence of the nature of the R Group on the Hydrolysis and Condensation Process of Trifunctional Silicon Alkoxides, R-Si(OR')₃. Materials Research Society Symposia Proceedings, 1994, 346, 365.	0.1	27
210	Rare-Earth Doped, Low Hydroxyl Organically Modified Silicates. Materials Research Society Symposia Proceedings, 1994, 346, 803.	0.1	12
211	²⁹Si, ¹⁷O Liquid NMR and ²⁹Si CP-MAS NMR Characterization of Siloxane-Oxide Materials, [(CH₃)₂SiO/TiO₂, (CH₃)₂SiO/ZrO₂]. Materials Research Society Symposia Proceedings, 1994, 346, 949.	0.1	37
212	Si-Al-O-N Fibers from Polymeric Precursor: Synthesis, Structural, and Mechanical Characterization. Journal of the American Ceramic Society, 1993, 76, 2595-2600.	3.8	38
213	Preceramic polymer routes to silicon carbide. Chemistry of Materials, 1993, 5, 260-279.	6.7	299
214	Comparative study of various sol-gel preparations of cordierite using aluminum-27 and silicon-29 liquid- and solid-state NMR spectroscopy. Chemistry of Materials, 1993, 5, 323-330.	6.7	24
215	Polymer-derived Si3N4â^'ZrO2 nanocomposite powders. Journal of Materials Research, 1992, 7, 1266-1270.	2.6	10
216	Structural Characterization of Gels Prepared from Co-Hydrolysis of Tetraethoxysilane and Dimethyldiethoxysilane.. Materials Research Society Symposia Proceedings, 1992, 271, 237.	0.1	11

#	Article	IF	Citations
217	Silicon oxycarbides via sol-gel route: characterization of the pyrolysis process. Journal of Non-Crystalline Solids, 1992, 147-148, 280-284.	3.1	54
218	Solâ€“gel synthesis of siloxaneâ€“oxide hybrid coatings [Si(CH3)2OÂ·MOx: M = Si, Ti, Zr, Al] with luminescent properties. Journal of Materials Chemistry, 1992, 2, 239-244.	6.7	118
219	Spectroscopic Characterization of the Pyrolysis Process of Pre-Ceramics Polymers. , 1992, , 347-357.		2
220	Characterization of hybrid materials prepared from co-hydrolysis of (CH3)2Si(OC2H5)2 and Si(OC2H5)4.. , 1992, , 319-326.		9
221	Synthesis and characterization of Siî—¸Zrî—¸Cî—¸O ceramics from polymer precursors. Journal of the European Ceramic Society, 1991, 8, 29-34.	5.7	36
222	Poly(methylsilane)-A High Ceramic Yield Precursor to Silicon Carbide. Journal of the American Ceramic Society, 1991, 74, 670-673.	3.8	116
223	Chemical Characterization of Si-Al-C-O Precursor and Its Pyrolysis. Journal of the American Ceramic Society, 1991, 74, 1725-1728.	3.8	63
224	Synthesis and Characterization of beta'-SiAlON Ceramics from Organosilicon Polymers. Journal of the American Ceramic Society, 1991, 74, 2220-2223.	3.8	34
225	Spectroscopic Characterization of a Pre-Ceramic Polymer For Sic/Tic System.. Materials Research Society Symposia Proceedings, 1990, 180, 1035.	0.1	6
226	Mixed Carbides via Polymer Route. Materials Research Society Symposia Proceedings, 1990, 180, 815.	0.1	3
227	Structural evolutions from polycarbosilane to SiC ceramic. Journal of Materials Science, 1990, 25, 3886-3893.	3.7	176
228	Synthesis and high temperature chemistry of methylsilsesquioxane polymers produced by titanium-catalyzed redistribution of methylhydridooligo- and -polysiloxanes. Chemistry of Materials, 1990, 2, 464-472.	6.7	55
229	Aluminum sec-butoxide modified with ethylacetoacetate: An attractive precursor for the sol-gel synthesis of ceramics. Journal of Non-Crystalline Solids, 1990, 121, 153-157.	3.1	113
230	Structural investigation of the hydrolysis-condensation process of titanium alkoxides Ti(OR)4 (OR =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 1989, 1, 240-247.	6.7	162
231	Dimethyldiethoxysilane/tetraethoxysilane copolymers: precursors for the silicon-carbon-oxygen system. Chemistry of Materials, 1989, 1, 554-558.	6.7	177
232	Structural investigation of the hydrolysis-condensation process of titanium alkoxides Ti(OR)4 (OR =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Materials, 1989, 1, 248-252.	6.7	129
233	Spectroscopic characterization of sol-gel processing. Journal of Non-Crystalline Solids, 1988, 106, 170-173.	3.1	12
234	Structural concepts on new amorphous covalent solids. Journal of Non-Crystalline Solids, 1988, 106, 256-261.	3.1	62

#	Article	IF	Citations
235	Silicon Carbide Via the Hydrolysis-Condensation Process of Dimethyldiethoxysilane/Tetraethoxysilane Copolymers.. Materials Research Society Symposia Proceedings, 1988, 121, 571.	0.1	14
236	Electron spin resonance study of hydrogenation effects in polycrystalline silicon. Applied Physics Letters, 1986, 49, 1620-1622.	3.3	31
237	Calcium-Phosphate Biomineralization Induced by Alkaline Phosphatase Activity in Escherichia coli: Localization, Kinetics, and Potential Signatures in the Fossil Record. Frontiers in Earth Science, 0, 3, .	1.8	40
238	Hydroxyapatite Hybridized with Metal Oxides for Biomedical Applications. Ceramic Engineering and Science Proceedings, 0, , 39-47.	0.1	0