

# Florence Babonneau

## List of Publications by Citations

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#	Paper	IF	Citations
238	The predominant role of collagen in the nucleation, growth, structure and orientation of bone apatite. <i>Nature Materials</i> , <b>2012</b> , 11, 724-33	27	396
237	First-principles calculation of NMR parameters using the gauge including projector augmented wave method: a chemist's point of view. <i>Chemical Reviews</i> , <b>2012</b> , 112, 5733-79	68.1	378
236	Highly Porous Polyhedral Silsesquioxane Polymers. Synthesis and Characterization. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 8380-8391	16.4	342
235	Structural Characterization of Hydrothermal Carbon Spheres by Advanced Solid-State MAS 13C NMR Investigations. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 9644-9654	3.8	333
234	Preceramic polymer routes to silicon carbide. <i>Chemistry of Materials</i> , <b>1993</b> , 5, 260-279	9.6	252
233	Solid-State NMR Study of Ibuprofen Confined in MCM-41 Material. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 6382-6390	2.22	222
232	Structural Characterization and High-Temperature Behavior of Silicon Oxycarbide Glasses Prepared from Sol-Gel Precursors Containing Si-H Bonds. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 379-387	3.8	221
231	Water-mediated structuring of bone apatite. <i>Nature Materials</i> , <b>2013</b> , 12, 1144-53	27	212
230	Hydrothermal carbon from biomass: structural differences between hydrothermal and pyrolyzed carbons via 13C solid state NMR. <i>Langmuir</i> , <b>2011</b> , 27, 14460-71	4	209
229	Humidity-controlled mesostructuration in CTAB-templated silica thin film processing. The existence of a modulable steady state. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 61-66		184
228	An in Situ Study of Mesostructured CTAB/Silica Film Formation during Dip Coating Using Time-Resolved SAXS and Interferometry Measurements. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 931-939	9.6	180
227	The True Structure of Hexagonal Mesophase-Templated Silica Films As Revealed by X-ray Scattering: Effects of Thermal Treatments and of Nanoparticle Seeding. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 1721-1728	9.6	172
226	Order/Disorder Transitions and Evolution of Silica Structure in Self-Assembled Mesostructured Silica Films Studied through FTIR Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 4711-4717	3.4	167
225	Dimethyldiethoxysilane/tetraethoxysilane copolymers: precursors for the silicon-carbon-oxygen system. <i>Chemistry of Materials</i> , <b>1989</b> , 1, 554-558	9.6	155
224	Selective protein adsorption property and characterization of nano-crystalline zinc-containing hydroxyapatite. <i>Acta Biomaterialia</i> , <b>2006</b> , 2, 69-74	10.8	146
223	Structural investigation of the hydrolysis-condensation process of titanium alkoxides Ti(OR) <sub>4</sub> (OR = OPr-iso, OEt) modified by acetylacetonate. 1. Study of the alkoxide modification. <i>Chemistry of Materials</i> , <b>1989</b> , 1, 240-247	9.6	140
222	Structural evolutions from polycarbosilane to SiC ceramic. <i>Journal of Materials Science</i> , <b>1990</b> , 25, 3886-3893	1.93	140

221	Structural Characterization of Sol-Gel Derived Oxycarbide Glasses. 1. Study of the Pyrolysis Process. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 796-802	9.6	137
220	Organically Modified SiO <sub>2</sub> B <sub>2</sub> O <sub>3</sub> Gels Displaying a High Content of Borosiloxane (BOSi) Bonds. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 910-919	9.6	134
219	Thermal cross-linking and pyrolytic conversion of poly(ureamethylvinyl)silazanes to silicon-based ceramics. <i>Applied Organometallic Chemistry</i> , <b>2001</b> , 15, 820-832	3.1	132
218	Influence of mesoporous structure type on the controlled delivery of drugs: release of ibuprofen from MCM-48, SBA-15 and functionalized SBA-15. <i>Journal of Sol-Gel Science and Technology</i> , <b>2009</b> , 50, 421-429	2.3	124
217	New Insights on the High-Temperature Nanostructure Evolution of SiOC and B-Doped SiBOC Polymer-Derived Glasses. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 5694-5702	9.6	112
216	Nanocrystalline Mesoporous $\gamma$ -Alumina Powders $\uparrow$ PMC1 Material $\uparrow$ Gathers Thermal and Chemical Stability with High Surface Area. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 5238-5243	9.6	111
215	Sol-gel synthesis of siloxane-oxide hybrid coatings [Si(CH <sub>3</sub> ) <sub>2</sub> O]M <sub>x</sub> : M = Si, Ti, Zr, Al] with luminescent properties. <i>Journal of Materials Chemistry</i> , <b>1992</b> , 2, 239-244		110
214	Introducing ecodesign in silica sol-gel materials. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8537		109
213	Structural investigation of the hydrolysis-condensation process of titanium alkoxides Ti(OR) <sub>4</sub> (OR = OPr-iso, OEt) modified by acetylacetone. 2. From the modified precursor to the colloids. <i>Chemistry of Materials</i> , <b>1989</b> , 1, 248-252	9.6	109
212	Competitive Polymerization between Organic and Inorganic Networks in Hybrid Materials. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 3726-3732	9.6	103
211	Structural Characterization of Sol-Gel Derived Oxycarbide Glasses. 2. Study of the Thermal Stability of the Silicon Oxycarbide Phase. <i>Chemistry of Materials</i> , <b>1995</b> , 7, 975-981	9.6	101
210	Poly(methylsilane) A High Ceramic Yield Precursor to Silicon Carbide. <i>Journal of the American Ceramic Society</i> , <b>1991</b> , 74, 670-673	3.8	97
209	Synthesis and characterization of poly(aminoborane) as a new boron nitride precursor. <i>Polymers for Advanced Technologies</i> , <b>1999</b> , 10, 702-712	3.2	94
208	Aluminum sec-butoxide modified with ethylacetoacetate: An attractive precursor for the sol-gel synthesis of ceramics. <i>Journal of Non-Crystalline Solids</i> , <b>1990</b> , 121, 153-157	3.9	94
207	Bone mineral: new insights into its chemical composition. <i>Scientific Reports</i> , <b>2019</b> , 9, 8456	4.9	93
206	Advanced solid state NMR techniques for the characterization of sol-gel-derived materials. <i>Accounts of Chemical Research</i> , <b>2007</b> , 40, 738-46	24.3	92
205	Structural characterization of organically-modified porous silicates synthesized using CTA+ surfactant and acidic conditions. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 175-178		92
204	Solid-State NMR Characterization of the Surfactant-Silica Interface in Templated Silicas: Acidic versus Basic Conditions. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 1343-1354	9.6	90

203	Chemically Derived BN Ceramics: Extensive $^{11}\text{B}$ and $^{15}\text{N}$ Solid-State NMR Study of a Pre-ceramic Polyborazilene. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 1700-1707	9.6	89
202	Structural Insights on Nitrogen-Containing Hydrothermal Carbon Using Solid-State Magic Angle Spinning $^{13}\text{C}$ and $^{15}\text{N}$ Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 8976-8982	3.8	85
201	Combined ab initio computational and experimental multinuclear solid-state magnetic resonance study of phenylphosphonic acid. <i>Magnetic Resonance in Chemistry</i> , <b>2004</b> , 42, 445-52	2.1	82
200	Unusual, pH-induced, self-assembly of sophorolipid biosurfactants. <i>ACS Nano</i> , <b>2012</b> , 6, 4763-76	16.7	80
199	Organosilicon Polymers Synthesis, Architecture, Reactivity and Applications. <i>Applied Organometallic Chemistry</i> , <b>1997</b> , 11, 71-106	3.1	78
198	Solid State NMR Characterisation of Encapsulated Molecules in Mesoporous Silica. <i>Journal of Sol-Gel Science and Technology</i> , <b>2004</b> , 31, 219-223	2.3	78
197	Accurate characterization of pure silicon-substituted hydroxyapatite powders synthesized by a new precipitation route. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 6992-7004	10.8	76
196	Nuclear magnetic resonance techniques for the structural characterization of siloxane-oxide hybrid materials. <i>Polyhedron</i> , <b>2000</b> , 19, 315-322	2.7	76
195	Synthesis and Characterization of Transparent PDMS/Metal-Oxo Based Organic/Inorganic Nanocomposites. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3026-3034	9.6	75
194	Phosphorous-doped MCM-41 as bioactive material. <i>Solid State Sciences</i> , <b>2005</b> , 7, 233-237	3.4	72
193	Crystallization Behavior of Novel Silicon Boron Oxycarbide Glasses. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 203-208	3.8	70
192	Investigation of the interface in silica-encapsulated liposomes by combining solid state NMR and first principles calculations. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 16815-27	16.4	67
191	Hybrid $\text{RSiO}_{1.5}/\text{B}_2\text{O}_3$ Gels from Modified Silicon Alkoxides and Boric Acid. <i>Journal of Sol-Gel Science and Technology</i> , <b>2000</b> , 18, 11-19	2.3	67
190	Evolution of C-rich SiOC ceramics. <i>International Journal of Materials Research</i> , <b>2006</b> , 97, 699-709	0.5	62
189	Kinetics of the formation of 2D-hexagonal silica nanostructured materials by nonionic block copolymer templating in solution. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 11330-44	3.4	59
188	Solid State NMR and TG/MS Study on the Transformation of Methyl Groups During Pyrolysis of Pre-ceramic Precursors to SiOC Glasses. <i>Journal of Sol-Gel Science and Technology</i> , <b>2003</b> , 26, 279-283	2.3	58
187	Sophorolipids: a yeast-derived glycolipid as greener structure directing agents for self-assembled nanomaterials. <i>Green Chemistry</i> , <b>2010</b> , 12, 1564	10	57
186	Sol-Gel-Derived Silicon-Boron Oxycarbide Glasses Containing Mixed Silicon Oxycarbide ( $\text{Si}_x\text{O}_{4-x}$ ) and Boron Oxycarbide ( $\text{BCyO}_{3-y}$ ) Units. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 2160-2164	3.8	57

185	A Molecular Picture of the Adsorption of Glycine in Mesoporous Silica through NMR Experiments Combined with DFT-D Calculations. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4104-4114	3.8	56
184	<sup>17</sup> O Solution NMR Characterization of the Preparation of Sol-Gel Derived SiO <sub>2</sub> /TiO <sub>2</sub> and SiO <sub>2</sub> /ZrO <sub>2</sub> Glasses. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 2385-2394	9.6	56
183	<sup>17</sup> O MAS NMR Study of the Bonding Mode of Phosphonate Coupling Molecules in a Titanium Oxo-Alkoxo-Phosphonate and in Titania-Based Hybrid Materials. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 4098-4103	9.6	56
182	High resolution solid state NMR investigation of various boron nitride preceramic polymers. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 657, 75-82	2.3	55
181	Ab Initio Calculations of NMR Parameters of Highly Coordinated Oxygen Sites in Aluminosilicates. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 13249-13253	3.4	54
180	Structural concepts on new amorphous covalent solids. <i>Journal of Non-Crystalline Solids</i> , <b>1988</b> , 106, 256-261	3.6	54
179	Letter. A carbonate-fluoride defect model for carbonate-rich fluorapatite. <i>American Mineralogist</i> , <b>2013</b> , 98, 1066-1069	2.9	53
178	The Evolutionary Process during Pyrolytic Transformation of Poly(N-methylsilazane) from a Preceramic Polymer into an Amorphous Silicon Nitride/Carbon Composite. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 137-145	3.8	52
177	<sup>15</sup> N cross-polarization using the inversion-recovery cross-polarization technique and <sup>11</sup> B magic angle spinning NMR studies of reference compounds containing B-N bonds. <i>Magnetic Resonance in Chemistry</i> , <b>1998</b> , 36, 407-414	2.1	51
176	Chemical Characterization of Si-Al-C-O Precursor and Its Pyrolysis. <i>Journal of the American Ceramic Society</i> , <b>1991</b> , 74, 1725-1728	3.8	51
175	Characterization of the hydrolysis and polymerization processes of methacryloxypropyltrimethoxysilane. <i>Journal of Sol-Gel Science and Technology</i> , <b>1994</b> , 2, 185-188	2.3	50
174	pH-triggered formation of nanoribbons from yeast-derived glycolipid biosurfactants. <i>Soft Matter</i> , <b>2014</b> , 10, 3950-9	3.6	49
173	Characterization of methyl-substituted silica gels with Si-H functionalities. <i>Journal of Materials Chemistry</i> , <b>1995</b> , 5, 1363-1374		49
172	Nanostructured copper oxide-cotton fibers: synthesis, characterization, and applications. <i>International Nano Letters</i> , <b>2012</b> , 2, 1	5.7	48
171	Composite particles of polyethylene @ silica. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 98-108	6.4	48
170	Silicon oxycarbides via sol-gel route: characterization of the pyrolysis process. <i>Journal of Non-Crystalline Solids</i> , <b>1992</b> , 147-148, 280-284	3.9	48
169	Neutral Alkoxysilanes from Silica. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 10063-10072	16.4	47
168	Sol-gel synthesis of SiBOC glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1998</b> , 224, 173-183	3.9	46

167	Controlling the Thermal Polymerization Process of Hybrid Organic/Inorganic Films Synthesized from 3-Methacryloxypropyltrimethoxysilane and 3-Aminopropyltriethoxysilane. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 4790-4797	9.6	46
166	Interfacial Ca environments in nanocrystalline apatites revealed by dynamic nuclear polarization enhanced Ca NMR spectroscopy. <i>Nature Communications</i> , <b>2017</b> , 8, 14104	17.4	45
165	Development of a Cradle-to-Grave Approach for Acetylated Acidic Sophorolipid Biosurfactants. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 1186-1198	8.3	45
164	Structural Control in Germania Hybrid Organic/Inorganic Materials. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 3172-3180	9.6	45
163	Phase transformation during cubic mesostructured silica film formation. <i>Chemical Communications</i> , <b>2002</b> , 748-9	5.8	45
162	Sol-gel synthesis of a siloxypolycarbosilane gel and its pyrolytic conversion to silicon oxycarbide. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 51-57	9.6	45
161	Solution State NMR Techniques Applied to Solid State Samples: Characterization of Benzoic Acid Confined in MCM-41. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8884-8891	3.8	43
160	Synthesis, Characterization and Applications of Immobilized Iminodiacetic Acid-Modified Silica. <i>Journal of Sol-Gel Science and Technology</i> , <b>2003</b> , 28, 255-265	2.3	43
159	Synthesis and high temperature chemistry of methylsilsesquioxane polymers produced by titanium-catalyzed redistribution of methylhydrido-oligo- and -polysiloxanes. <i>Chemistry of Materials</i> , <b>1990</b> , 2, 464-472	9.6	43
158	Solid-state NMR characterization of drug-model molecules encapsulated in MCM-41 silica. <i>Pure and Applied Chemistry</i> , <b>2009</b> , 81, 1345-1355	2.1	42
157	Covalent grafting of organoalkoxysilanes on silica surfaces in water-rich medium as evidenced by <sup>29</sup> Si NMR. <i>Journal of Sol-Gel Science and Technology</i> , <b>2009</b> , 50, 152-157	2.3	42
156	Structural Characterization and Protein Adsorption Property of Hydroxyapatite Particles Modified With Zinc Ions. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 565-569	3.8	41
155	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. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 3126		41
154	Sol-Gel Processing of a Glycolated Cyclic Organosilane and Its Pyrolysis to Silicon Oxycarbide Monoliths with Multiscale Porosity and Large Surface Areas. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1509-1520	9.6	40
153	<sup>11</sup> B and <sup>15</sup> N solid state NMR investigation of a boron nitride preceramic polymer prepared by ammonolysis of borazine. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 129-135	6	40
152	New perspectives in the PAW/GIPAW approach: J(P-O-Si) coupling constants, antisymmetric parts of shift tensors and NQR predictions. <i>Magnetic Resonance in Chemistry</i> , <b>2010</b> , 48 Suppl 1, S86-102	2.1	39
151	Solid-state nuclear magnetic resonance: A valuable tool to explore organic-inorganic interfaces in silica-based hybrid materials. <i>Comptes Rendus Chimie</i> , <b>2010</b> , 13, 58-68	2.7	39
150	The first direct probing of porosity on supported mesoporous silica thin films through hyperpolarised <sup>129</sup> Xe NMR. <i>Chemical Communications</i> , <b>2002</b> , 2476-2477	5.8	39

149	Structural Investigation of the First Stages of Pyrolysis of Si-C-O Pre-ceramic Polymers Containing Si-H Bonds. <i>Journal of Sol-Gel Science and Technology</i> , <b>1999</b> , 14, 39-48	2.3	39
148	Solid-State <sup>17</sup> O NMR Characterization of PDMS/M <sub>x</sub> O <sub>y</sub> (M = Ge(IV), Ti(IV), Zr(IV), Nb(V), and Ta(V)) Organic/Inorganic Nanocomposites. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 521-529	9.6	38
147	Unsupported SiO <sub>2</sub> -based organic/inorganic membranes. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 67-73		37
146	Organo-modified mesoporous silicas for organic pollutant removal in water: Solid-state NMR study of the organic/silica interactions. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 110, 534-542	5.3	37
145	Structural and Microstructural Evolution During Pyrolysis of Hybrid Polydimethylsiloxane-Titania Nanocomposites. <i>Journal of Sol-Gel Science and Technology</i> , <b>2005</b> , 34, 53-62	2.3	37
144	Heterogeneous structure and in vitro degradation behavior of wet-chemically derived nanocrystalline silicon-containing hydroxyapatite particles. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 4856-67	10.8	36
143	Thermal evolution and crystallisation of polydimethylsiloxane/zirconia nanocomposites prepared by the sol-gel method. <i>Journal of the European Ceramic Society</i> , <b>1999</b> , 19, 2849-2858	6	36
142	Solid-state NMR investigations of the polymer route to SiBCN ceramics. <i>Canadian Journal of Chemistry</i> , <b>2003</b> , 81, 1359-1369	0.9	35
141	Whewellite, CaC <sub>2</sub> O <sub>4</sub> ·H <sub>2</sub> O: structural study by a combined NMR, crystallography and modelling approach. <i>CrystEngComm</i> , <b>2013</b> , 15, 8840	3.3	34
140	Amorphous surface layer versus transient amorphous precursor phase in bone - A case study investigated by solid-state NMR spectroscopy. <i>Acta Biomaterialia</i> , <b>2017</b> , 59, 351-360	10.8	34
139	Resolution enhancement in solid-state MQ-MAS experiments achieved by composite decoupling. <i>Magnetic Resonance in Chemistry</i> , <b>1998</b> , 36, 956-959	2.1	33
138	Gel Precursor to Silicon Oxycarbide Glasses with Ultrahigh Ceramic Yield. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 80, 999-1004	3.8	33
137	Organosilicas based on purine/pyrimidine base pair assemblies: a solid state NMR point of view. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 392-399		32
136	Design of a Series of Pre-ceramic B-Tri(methylamino)borazine-Based Polymers as Fiber Precursors: Architecture, Thermal Behavior, and Melt-Spinnability. <i>Macromolecules</i> , <b>2007</b> , 40, 1018-1027	5.5	32
135	B/C/N Materials and B <sub>4</sub> C Synthesized by a Non-Oxide Sol-Gel Process. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 755-764	9.6	32
134	<sup>29</sup> Si MAS NMR investigation of the pyrolysis process of cross-linked polysiloxanes prepared from polymethylhydrosiloxane. <i>Journal of Materials Chemistry</i> , <b>1996</b> , 6, 1673		32
133	Synthesis of periodic mesoporous organosilica from bis(triethoxysilyl)methane and their pyrolytic conversion into porous SiCO glasses. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 265-270	6	31
132	Thermal Decomposition of Poly(methylsilsesquicarbodiimide) to Amorphous Si <sub>3</sub> N <sub>4</sub> Ceramics. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 412-420	9.6	31

131	29Si,17O Liquid NMR and29Si CP-MAS NMR Characterization of Siloxane-Oxide Materials, [(CH3)2SiO/TiO2, (CH3)2SiO/ZrO2]. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 346, 949		31
130	Si-Al-O-N Fibers from Polymeric Precursor: Synthesis, Structural, and Mechanical Characterization. <i>Journal of the American Ceramic Society</i> , <b>1993</b> , 76, 2595-2600	3.8	31
129	Synthesis and characterization of Si?Zr?C?O ceramics from polymer precursors. <i>Journal of the European Ceramic Society</i> , <b>1991</b> , 8, 29-34	6	30
128	Synthesis and Characterization of SiAlON Ceramics from Organosilicon Polymers. <i>Journal of the American Ceramic Society</i> , <b>1991</b> , 74, 2220-2223	3.8	30
127	Electron spin resonance study of hydrogenation effects in polycrystalline silicon. <i>Applied Physics Letters</i> , <b>1986</b> , 49, 1620-1622	3.4	30
126	Molecular Chemistry and Engineering of Boron-Modified Polyorganosilazanes as New Processable and Functional SiBCN Precursors. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 9076-9090	4.8	29
125	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. <i>International Journal of Materials Research</i> , <b>2006</b> , 97, 710-720		29
124	A Processable Mullite Precursor Prepared by Reacting Silica and Aluminum Hydroxide with Triethanolamine in Ethylene Glycol: Structural Evolution on Pyrolysis. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 80, 2597-2606	3.8	29
123	Sol-gel precursors: a spectroscopic study of transesterification reactions between silicon and titanium alkoxides. <i>Journal of Non-Crystalline Solids</i> , <b>1994</b> , 167, 29-36	3.9	29
122	Antibacterial properties of sophorolipid-modified gold surfaces against Gram positive and Gram negative pathogens. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 157, 325-334	6	28
121	Calcium oxalate precipitation by diffusion using laminar microfluidics: toward a biomimetic model of pathological microcalcifications. <i>Lab on A Chip</i> , <b>2016</b> , 16, 1157-60	7.2	28
120	Solid state (47,49)Ti, (87)Sr and (137)Ba NMR characterisation of mixed barium/strontium titanate perovskites. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2004</b> , 26, 147-52	3.1	28
119	Controlled collagen assembly to build dense tissue-like materials for tissue engineering. <i>Soft Matter</i> , <b>2011</b> , 7, 9659	3.6	27
118	Energetics and Structure of Polymer-Derived Si(B)OC Glasses: Effect of the Boron Content and Pyrolysis Temperature. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 303-309	3.8	26
117	New Monofunctional POSS and Its Utilization as Dewetting Additive in Methacrylate Based Free-Standing Films. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 4163-4171	9.6	26
116	GIPAW (gauge including projected augmented wave) and local dynamics in 13C and 29Si solid state NMR: the study case of silsesquioxanes (RSiO1.5)8. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 6953-61	3.6	25
115	Sol-gel synthesis and NMR characterization of ceramics. <i>Ceramics International</i> , <b>1997</b> , 23, 13-18	5.1	25
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