Dominique Massiot

List of Publications by Year
in descending order

277 papers	17,177 citations	19657 61 h-index	18647 119 g-index
295 all docs	295 docs citations	295 times ranked	12453 citing authors

#	Article	IF	Citations
1	Modelling one- and two-dimensional solid-state NMR spectra. Magnetic Resonance in Chemistry, 2002, 40, 70-76.	1.9	3,565
2	Al environment in tectosilicate and peraluminous glasses: A 27Al MQ-MAS NMR, Raman, and XANES investigation. Geochimica Et Cosmochimica Acta, 2004, 68, 5071-5079.	3.9	419
3	Two-dimensional magic-angle spinning isotropic reconstruction sequences for quadrupolar nuclei. Solid State Nuclear Magnetic Resonance, 1996, 6, 73-83.	2.3	406
4	Al coordination and speciation in calcium aluminosilicate glasses: Effects of composition determined by 27Al MQ-MAS NMR and Raman spectroscopy. Chemical Geology, 2006, 229, 173-185.	3.3	389
5	Causes of supercapacitors ageing in organic electrolyte. Journal of Power Sources, 2007, 171, 1046-1053.	7.8	348
6	Considerable Improvement of Long-Persistent Luminescence in Germanium and Tin Substituted ZnGa₂O₄. Chemistry of Materials, 2013, 25, 1600-1606.	6.7	343
7	71Ga and 69Ga nuclear magnetic resonance study of Î²-Ga2O3: resolution of four- and six-fold coordinated Ga sites in static conditions. Solid State Nuclear Magnetic Resonance, 1995, 4, 241-248.	2.3	306
8	MAS NMR spectra of quadrupolar nuclei in disordered solids: The Czjzek model. Journal of Magnetic Resonance, 2008, 192, 244-251.	2.1	270
9	Exploring electrolyte organization in supercapacitor electrodes with solid-state NMR. Nature Materials, 2013, 12, 351-358.	27.5	210
10	The role of Al3+ on rheology and structural changes in sodium silicate and aluminosilicate glasses and melts. Geochimica Et Cosmochimica Acta, 2014, 126, 495-517.	3.9	205
11	Amorphous materials: Properties, structure, and durability: Structure of Mg- and Mg/Ca aluminosilicate glasses: 27Al NMR and Raman spectroscopy investigations. American Mineralogist, 2008, 93, 1721-1731.	1.9	187
12	Al speciation and Ca environment in calcium aluminosilicate glasses and crystals by Al and Ca K-edge X-ray absorption spectroscopy. Chemical Geology, 2004, 213, 153-163.	3.3	147
13	Novel biomaterials for bisphosphonate delivery. Biomaterials, 2005, 26, 2073-2080.	11.4	143
14	NMR Heteronuclear Correlation between Quadrupolar Nuclei in Solids. Journal of the American Chemical Society, 2005, 127, 11540-11541.	13.7	143
15	Crystal structure of Î²-alumina: an X-ray powder diffraction, TEM and NMR study. Journal of Materials Chemistry, 1997, 7, 1049-1056.	6.7	138
16	Structure of High-Temperature NaFâ^'AlF3â^'Al2O3Melts: A Multinuclear NMR Study. Journal of Physical Chemistry B, 2002, 106, 1862-1868.	2.6	136
17	Structure and Dynamics in Calcium Aluminate Liquids: High-Temperature 27Al NMR and Raman Spectroscopy. Journal of the American Ceramic Society, 1994, 77, 1832-1838.	3.8	123
18	Local Al site distribution in aluminosilicate glasses by 27Al MQMAS NMR. Journal of Non-Crystalline Solids, 2007, 353, 180-184.	3.1	121

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19	A structural investigation of CaOî—¸Al2O3 glasses via 27Al MAS-NMR. Journal of Non-Crystalline Solids, 1996, 195, 261-271.	3.1	117
20	Silica-alumina liquids: in-situ study by high-temperature aluminum-27 NMR spectroscopy and molecular dynamics simulation. The Journal of Physical Chemistry, 1992, 96, 8220-8224.	2.9	115
21	Empirical Correlations between207Pb NMR Chemical Shifts and Structure in Solids. Journal of the American Chemical Society, 1997, 119, 6837-6843.	13.7	115
22	Solid-state 1H and 27Al NMR studies of amorphous aluminum hydroxides. Journal of Colloid and Interface Science, 2003, 261, 320-324.	9.4	114
23	Identification and Quantification of Defects in the Cation Ordering in Mg/Al Layered Double Hydroxides. Chemistry of Materials, 2011, 23, 2821-2831.	6.7	114
24	²⁷Al NMR Study of the Structure of Lanthanum- and Yttrium-Based Aluminosilicate Glasses and Melts. Journal of Physical Chemistry B, 2007, 111, 9747-9757.	2.6	113
25	Reactivity of Titanium Oxo Ethoxo Cluster [Ti16O16(OEt)32]. Versatile Precursor of Nanobuilding Block-Based Hybrid Materials. Journal of the American Chemical Society, 2005, 127, 4869-4878.	13.7	112
26	Chemical bonding differences evidenced from J-coupling in solid state NMR experiments involving quadrupolar nuclei. Journal of Magnetic Resonance, 2003, 164, 160-164.	2.1	110
27	Seeking Higher Resolution and Sensitivity for NMR of Quadrupolar Nuclei at Ultrahigh Magnetic Fields. Journal of the American Chemical Society, 2002, 124, 5634-5635.	13.7	108
28	A quantitative study of 27Al MAS NMR in crystalline YAG. Journal of Magnetic Resonance, 1990, 90, 231-242.	0.5	107
29	Infrared reflectivity spectroscopy of silicate glasses. Journal of Non-Crystalline Solids, 1987, 89, 384-401.	3.1	105
30	29Si and 207Pb NMR study of local order in lead silicate glasses. Journal of Non-Crystalline Solids, 1998, 232-234, 403-408.	3.1	103
31	Chemically Derived BN Ceramics: Extensive11B and15N Solid-State NMR Study of a Preceramic Polyborazilene. Chemistry of Materials, 2001, 13, 1700-1707.	6.7	98
32	Visibility of Al Surface Sites of Î³-Alumina: A Combined Computational and Experimental Point of View. Journal of Physical Chemistry C, 2014, 118, 15292-15299.	3.1	97
33	Elucidation of the Al/Si Ordering in Gehlenite Ca₂Al₂SiO₇ by Combined ²⁹Si and ²⁷Al NMR Spectroscopy/Quantum Chemical Calculations. Chemistry of Materials, 2012, 24, 4068-4079.	6.7	95
34	27Al and 29Si MAS NMR Study of Kaolinite Thermal Decomposition by Controlled Rate Thermal Analysis. Journal of the American Ceramic Society, 1995, 78, 2940-2944.	3.8	93
35	Pb2+ environment in lead silicate glasses probed by Pb-LIII edge XAFS and 207Pb NMR. Journal of Non-Crystalline Solids, 1999, 243, 39-44.	3.1	86
36	Magnesium and Calcium Aluminate Liquids: In Situ High-Temperature 27Al NMR Spectroscopy. Science, 1993, 259, 786-788.	12.6	84

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37	Synthesis and X-ray Powder Structure of a New Pillared Layered Cadmium Phosphonate, Giving Evidence that the Intercalation of Alkylamines into Cd(O3PR)Â·H2O Is Topotactic. Inorganic Chemistry, 1999, 38, 1831-1833.	4.0	83
38	Through-space contributions to two-dimensional double-quantum J correlation NMR spectra of magic-angle-spinning solids. Journal of Chemical Physics, 2005, 122, 194313.	3.0	82
39	Relationship between Solid-State31P NMR Parameters and X-ray Structural Data in Some Zinc Phosphonates. Chemistry of Materials, 1997, 9, 6-7.	6.7	79
40	New Insights into the Molecular Structures, Compositions, and Cation Distributions in Synthetic and Natural Montmorillonite Clays. Chemistry of Materials, 2012, 24, 4376-4389.	6.7	79
41	Temperature-Dependent 4-, 5- and 6-Fold Coordination of Aluminum in MOCVD-Grown Amorphous Alumina Films: A Very High Field ²⁷Al-NMR study. Journal of Physical Chemistry C, 2013, 117, 21965-21971.	3.1	78
42	of reference GaIV, GaV, and GaVI compounds by MAS and QPASS, extension of gallium/aluminum NMR parameter correlation. Solid State Nuclear Magnetic Resonance, 1999, 15, 159-169.	2.3	77
43	A Multi-nuclear Multiple-Field Nuclear Magnetic Resonance Study of the Y2O3â^'Al2O3Phase Diagram. Journal of Physical Chemistry B, 2001, 105, 379-391.	2.6	76
44	Percolation channels: a universal idea to describe the atomic structure and dynamics of glasses and melts. Scientific Reports, 2017, 7, 16490.	3.3	76
45	The structure of crystals, glasses, and melts along the CaO-Al2O3 join: Results from Raman, Al L- and K-edge X-ray absorption, and 27Al NMR spectroscopy. American Mineralogist, 2010, 95, 1580-1589.	1.9	75
46	Zirconium Phosphonate Frameworks Covalently Pillared with a Bipyridine Moiety. Chemistry of Materials, 2001, 13, 163-173.	6.7	74
47	Synthesis, crystal structure and 71Ga solid state NMR of a MOF-type gallium trimesate (MIL-96) with Î¼3-oxo bridged trinuclear units and a hexagonal 18-ring network. Microporous and Mesoporous Materials, 2007, 105, 111-117.	4.4	74
48	Characterization of the Room-Temperature Structure of SnP2O7by31P Through-Space and Through-Bond NMR Correlation Spectroscopy. Chemistry of Materials, 2003, 15, 2234-2239.	6.7	71
49	Characterization of MgAl2O4 Precursor Powders Prepared by Aqueous Route. Journal of the American Ceramic Society, 1999, 82, 3299-3304.	3.8	71
50	Nature and Structure of Aluminum Surface Sites Grafted on Silica from a Combination of High-Field Aluminum-27 Solid-State NMR Spectroscopy and First-Principles Calculations. Journal of the American Chemical Society, 2012, 134, 6767-6775.	13.7	71
51	Structure and Dynamics of CaAl2O4 from Liquid to Glass: A High-Temperature 27Al NMR Time-Resolved Study. The Journal of Physical Chemistry, 1995, 99, 16455-16459.	2.9	70
52	²J Siâ^'Oâ^'Si Scalar Spinâ^'Spin Coupling in the Solid State: Crystalline and Glassy Wollastonite CaSiO₃. Journal of Physical Chemistry C, 2009, 113, 2562-2572.	3.1	70
53	Tuneable Nanostructuring of Highly Transparent Zinc Gallogermanate Glasses and Glassâ€€eramics. Advanced Optical Materials, 2014, 2, 364-372.	7.3	70
54	Surface and bulk characterisation of titaniumâ€“oxo clusters and nanosized titania particles through 17O solid state NMR. Journal of Materials Chemistry, 1999, 9, 2467-2474.	6.7	67

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55	Through-bond phosphorusâ€“phosphorus connectivities in crystalline and disordered phosphates by solid-state NMR. Chemical Communications, 2002, , 1702-1703.	4.1	66
56	Synthesis and characterization of two new cadmium phosphonocarboxylates Cd2(OH)(O3PC2H4CO2) and Cd3(O3PC2H4CO2)2Â·2H2O. Dalton Transactions RSC, 2002, , 1508.	2.3	66
57	Modulation of the crystallinity of hydrogenated nitrogen-rich graphitic carbon nitrides. Journal of Solid State Chemistry, 2009, 182, 165-171.	2.9	66
58	Observation and accurate quantification of 27Al MAS NMR spectra of some Al2SiO5 polymorphs containing sites with large quadrupole interactions. Chemical Physics Letters, 1991, 177, 301-306.	2.6	65
59	Multiple quantum magic-angle spinning using rotary resonance excitation. Journal of Chemical Physics, 2001, 114, 4618.	3.0	65
60	Multi-scale NMR characterisation of mesostructured materials using through-bond polarisation transfer, fast MAS, and spin diffusion. Journal of Magnetic Resonance, 2003, 163, 347-352.	2.1	64
61	Chemically Modified Calcium Phosphates as Novel Materials for Bisphosphonate Delivery. Advanced Materials, 2004, 16, 1423-1427.	21.0	63
62	A time resolved 27Al NMR study of the cooling process of liquid alumina from 2450 Â°C to crystallisation. Solid State Nuclear Magnetic Resonance, 1995, 5, 233-238.	2.3	62
63	High-Resolution Double-Quantum31P MAS NMR Study of the Intermediate-Range Order in Crystalline and Glass Lead Phosphates. Inorganic Chemistry, 1999, 38, 5212-5218.	4.0	61
64	Study of NaFâ^'AlF3Melts by High-Temperature27Al NMR Spectroscopy:Â Comparison with Results from Raman Spectroscopy. Inorganic Chemistry, 1999, 38, 214-217.	4.0	61
65	31P NMR study of magnesium phosphate glasses. Journal of Non-Crystalline Solids, 2001, 283, 88-94.	3.1	61
66	Introduction of boron in hydroxyapatite: synthesis and structural characterization. Journal of Alloys and Compounds, 2002, 333, 62-71.	5.5	61
67	Application of the through-bond correlation NMR experiment to the characterization of crystalline and disordered phosphates. Comptes Rendus Chimie, 2004, 7, 351-361.	0.5	61
68	Order-resolved sideband separation in magic angle spinning NMR of half integer quadrupolar nuclei. Chemical Physics Letters, 1997, 272, 295-300.	2.6	60
69	Structural characterization of water-bearing silicate and aluminosilicate glasses by high-resolution solid-state NMR. Chemical Geology, 2001, 174, 291-305.	3.3	60
70	Effect of Sodium Doping in Î²-Tricalcium Phosphate on Its Structure and Properties. Chemistry of Materials, 2006, 18, 1425-1433.	6.7	60
71	Characterization and Properties of Novel Gallium-Doped Calcium Phosphate Ceramics. Inorganic Chemistry, 2011, 50, 8252-8260.	4.0	60
72	Topological, Geometric, and Chemical Order in Materials: Insights from Solid-State NMR. Accounts of Chemical Research, 2013, 46, 1975-1984.	15.6	60

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73	A distribution of activation energies for the local and long-range ionic motion is consistent with the disordered structure of the perovskite Li3xLa2/3Â¢ÂˆÂ'xTiO3. Solid State Ionics, 1998, 109, 25-34.	2.7	59
74	Structure and dynamics of oxide melts and glasses: A view from multinuclear and high temperature NMR. Journal of Non-Crystalline Solids, 2008, 354, 249-254.	3.1	59
75	Detection and use of small J couplings in solid state NMR experiments. Comptes Rendus Chimie, 2010, 13, 117-129.	0.5	59
76	Identification of solvated species present in concentrated and dilute sodium silicate solutions by combined 29Si NMR and SAXS studies. Journal of Colloid and Interface Science, 2010, 352, 309-315.	9.4	59
77	Evidence of Nanometric-Sized Phosphate Clusters in Bioactive Glasses As Revealed by Solid-State ³¹P NMR. Journal of Physical Chemistry C, 2013, 117, 2283-2288.	3.1	59
78	Effect of Alkali Metal Oxide on17O NMR Parameters and Siâ^'Oâ^'Si Angles of Alkali Metal Disilicate Glasses. The Journal of Physical Chemistry, 1996, 100, 5525-5532.	2.9	57
79	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
80	Structural characterisation of aluminium layered double hydroxides by 27Al solid-state NMR. Solid State Nuclear Magnetic Resonance, 2009, 36, 19-23.	2.3	57
81	Implementation of High Resolution ⁴³Ca Solid State NMR Spectroscopy: Toward the Elucidation of Calcium Sites in Biological Materials. Journal of the American Chemical Society, 2009, 131, 13430-13440.	13.7	54
82	27Al NMR spectroscopy of aluminosilicate melts and glasses. Chemical Geology, 1992, 96, 367-370.	3.3	52
83	Crystallization of Y₂O₃â€"Al₂O₃ Rich Glasses: Synthesis of YAG Glass-Ceramics. Journal of Physical Chemistry C, 2011, 115, 20499-20506.	3.1	52
84	A space group assignment of ZrP2O7 obtained by 31P solid state NMR. Chemical Communications, 2001, , 1766-1767.	4.1	51
85	Isolation and analysis of the non-hydrolysable fraction of a forest soil and an arable soil (LacadÃ©e,) Tj ETQq1 1 0.784314 rgBT /Overlo	3.9	50
86	Revisiting Y2Si2O7 and Y2SiO5 polymorphic structures by 89Y MAS-NMR spectroscopy. Journal of Solid State Chemistry, 2004, 177, 2783-2789.	2.9	50
87	Transparency through Structural Disorder: A New Concept for Innovative Transparent Ceramics. Chemistry of Materials, 2015, 27, 508-514.	6.7	50
88	Superadiabaticity in magnetic resonance. Journal of Chemical Physics, 2008, 129, 204110.	3.0	49
89	Q⁽ⁿ⁾ Species Distribution in K₂OÂ·2SiO₂ Glass by ²⁹Si Magic Angle Flipping NMR. Journal of Physical Chemistry A, 2010, 114, 5503-5508.	2.5	49
90	Characterization of mono- and diphasic mullite precursor powders prepared by aqueous routes. 27Al and 29Si MAS-NMR spectroscopy investigations. Journal of Materials Science, 1996, 31, 4581-4589.	3.7	48

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91	Structural Control in Germania Hybrid Organicâ˜Inorganic Materials. Chemistry of Materials, 2005, 17, 3172-3180.	6.7	48
92	Reaction of Zoledronate with Î²-Tricalcium Phosphate for the Design of Potential Drug Device Combined Systems. Chemistry of Materials, 2008, 20, 182-191.	6.7	48
93	Connectivity and Proximity between Quadrupolar Nuclides in Oxide Glasses: Insights from through-Bond and through-Space Correlations in Solid-State NMR. Journal of Physical Chemistry B, 2009, 113, 5162-5167.	2.6	48
94	Probing chemical disorder in glasses using silicon-29 NMR spectral editing. Physical Chemistry Chemical Physics, 2009, 11, 6935.	2.8	48
95	Double rotation and magic-angle spinning nuclear magnetic resonance study of 27Al: reexamination of the aluminium borate 9Al2O3 Â· 2B2O3. Solid State Nuclear Magnetic Resonance, 1995, 5, 175-180.	2.3	47
96	Revealing Defects in Crystalline Lithium-Ion Battery Electrodes by Solid-State NMR: Applications to LiVPO₄F. Chemistry of Materials, 2015, 27, 5212-5221.	6.7	47
97	Aluminium-27 MAS NMR of Al2Ge2O7 and LaAlGe2O7: Two pentacoordinated aluminium environments. Magnetic Resonance in Chemistry, 1990, 28, S82-S88.	1.9	46
98	Investigation of alendronate-doped apatitic cements as a potential technology for the prevention of osteoporotic hip fractures: Critical influence of the drug introduction mode on the in vitro cement properties. Acta Biomaterialia, 2011, 7, 759-770.	8.3	46
99	19F High Magnetic Field NMR Study of Î²-ZrF4and CeF4:Â From Spectra Reconstruction to Correlation between Fluorine Sites and19F Isotropic Chemical Shifts. Inorganic Chemistry, 2006, 45, 10636-10641.	4.0	45
100	Spray-dried mesoporous silica microspheres with adjustable textures and pore surfaces homogenously covered by accessible thiol functions. Journal of Materials Chemistry, 2008, 18, 1368.	6.7	45
101	Sensitivity enhancements in MQ-MAS NMR of spin-5/2 nuclei using modulated rf mixing pulses1Presented in part at the 1st Alpine Conference on Solid-State NMR, September 1999, Chamonix, France.1. Chemical Physics Letters, 2000, 326, 454-460.	2.6	44
102	Hydrothermal Synthesis, Structure Determination, and Solid-State NMR Study of the First Organically Templated Scandium Phosphate. Chemistry of Materials, 2002, 14, 2416-2420.	6.7	44
103	Electrical conductivity and 11B NMR studies of sodium borosilicate glasses. Journal of Non-Crystalline Solids, 2008, 354, 1664-1670.	3.1	44
104	Design and properties of novel gallium-doped injectable apatitic cements. Acta Biomaterialia, 2015, 24, 322-332.	8.3	44
105	Chemical Bonding of Lead in Glasses through Isotropic vs Anisotropic Correlation: PASS Shifted Echo. Journal of Magnetic Resonance, 1999, 137, 116-121.	2.1	43
106	Synthesis and Characterization of Spinel-Type Gallia-Alumina Solid Solutions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 2121-2126.	1.2	43
107	An extension of the Czjzek model for the distributions of electric field gradients in disordered solids and an application to NMR spectra of⁷¹Ga in chalcogenide glasses. Journal of Physics Condensed Matter, 2010, 22, 065402.	1.8	43
108	Chlorodiethylaluminum supported on silica: A dinuclear aluminum surface species with bridging Î¼2-Cl-ligand as a highly efficient co-catalyst for the Ni-catalyzed dimerization of ethene. Journal of Catalysis, 2014, 313, 46-54.	6.2	43

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109	Synthesis of a Mullite Precursor from Aluminum Nitrate and Tetraethoxysilane via Aqueous Homogeneous Precipitation: An 27Al and 29Si Liquid- and Solid-State NMR Spectroscopic Study. Journal of the American Ceramic Society, 1995, 78, 2648-2654.	3.8	42
110	Nuclear magnetic resonance investigation of Li+-ion dynamics in the perovskite fast-ion conductor Li3xLa2/3-x$square$ 1/3-2xTiO3. Journal of Physics Condensed Matter, 2002, 14, 523-539.	1.8	42
111	Two-dimensional one pulse MAS of half-integer quadrupolar nuclei. Journal of Magnetic Resonance, 2006, 181, 310-315.	2.1	42
112	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
113	High temperature NMR study of lithium sodium sulfate. Solid State Ionics, 1990, 37, 223-229.	2.7	41
114	Hybrid materials applied to biotechnologies: coating of calcium phosphates for the design of implants active against bone resorption disorders. Journal of Materials Chemistry, 2005, 15, 3869.	6.7	41
115	Broadband inversion for MAS NMR with single-sideband-selective adiabatic pulses. Journal of Chemical Physics, 2011, 134, 024117.	3.0	41
116	Structural and scintillation properties of new Ce3+-doped alumino-borate. Optical Materials, 2001, 16, 77-86.	3.6	40
117	From Layered Double Hydroxides to Layered Double Hydroxide-Based Nanocompositesâ€”A Solid-State NMR Study. Journal of Physical Chemistry C, 2009, 113, 21308-21313.	3.1	40
118	Metabolite localization in living drosophila using High Resolution Magic Angle Spinning NMR. Scientific Reports, 2015, 5, 9872.	3.3	39
119	Crystal Structure Studies by Single-Crystal NMR Spectroscopy. 71Ga and 69Ga Single-Crystal NMR of Î²-Ga2O3 Twins. Journal of the American Chemical Society, 1998, 120, 8184-8188.	13.7	38
120	Cation Sublattice Disorder Induced by Swift Heavy Ions in MgAl₂O₄ and ZnAl₂O₄ Spinels:â€‰ ²⁷Al Solid-State NMR Study. Journal of Physical Chemistry B, 2007, 111, 12707-12714.	2.6	38
121	Pure Absorption-Mode Spectra Using a Modulated RF Mixing Period in MQMAS Experiments. Journal of Magnetic Resonance, 2000, 143, 217-222.	2.1	37
122	Application of the MAS-J-HMQC experiment to a new pair of nuclei {29Si,31P}: Si5O(PO4)6 and SiP2O7 polymorphs. Journal of Magnetic Resonance, 2006, 179, 114-119.	2.1	37
123	Structural fluctuations and role of Ti as nucleating agent in an aluminosilicate glass. Journal of Non-Crystalline Solids, 2010, 356, 1368-1373.	3.1	37
124	Controlling the Size of Nanodomains in Calcium Aluminosilicate Glasses. Journal of Physical Chemistry C, 2011, 115, 18935-18945.	3.1	37
125	71Ga Chemical Shielding and Quadrupole Coupling Tensors of the Garnet Y3Ga5O12 from Single-Crystal 71Ga NMR. Inorganic Chemistry, 1997, 36, 2446-2450.	4.0	36
126	Resolution enhancement in solid-state MQ-MAS experiments achieved by composite decoupling. Magnetic Resonance in Chemistry, 1998, 36, 956-959.	1.9	36

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127	Triple-quantum correlation NMR experiments in solids using J-couplings. Journal of Magnetic Resonance, 2006, 179, 49-57.	2.1	36
128	1D to 3D NMR study of microporous aluminoâ€phosphate AlPO₄â€40. Magnetic Resonance in Chemistry, 2009, 47, 942-947.	1.9	36
129	1H and 19F ultra-fast MAS double-quantum single-quantum NMR correlation experiments using three-spin terms of the dipolar homonuclear Hamiltonian. Physical Chemistry Chemical Physics, 2011, 13, 8024.	2.8	36
130	Structure Resolution of Ba5Al3F19and Investigation of Fluorine Ion Dynamics by Synchrotron Powder Diffraction, Variable-Temperature Solid-State NMR, and Quantum Computations. Inorganic Chemistry, 2011, 50, 2644-2653.	4.0	35
131	Triisobutylaluminum: bulkier and yet more reactive towards silica surfaces than triethyl or trimethylaluminum. Dalton Transactions, 2013, 42, 12681.	3.3	35
132	Gut bacteria are essential for normal cuticle development in herbivorous turtle ants. Nature Communications, 2021, 12, 676.	12.8	35
133	71Ga and 31P solid state NMR: a powerful tool for the characterization of the first gallium phosphonates. Chemical Communications, 1998, , 175-176.	4.1	34
134	In situ NMR approach of the local structure of molten materials at high temperature. Comptes Rendus Chimie, 2006, 9, 374-380.	0.5	34
135	Characterization of the disordered phosphate network in CaOâ€“P2O5 glasses by 31P solid-state NMR and Raman spectroscopies. Journal of Non-Crystalline Solids, 2011, 357, 1636-1646.	3.1	34
136	Evolution of the Si environment in mullite solid solution by 29Si MAS-NMR spectroscopy. Journal of Non-Crystalline Solids, 1996, 204, 125-134.	3.1	33
137	From crystalline to glassy gallium fluoride materials: an NMR study of and quadrupolar nuclei. Solid State Nuclear Magnetic Resonance, 1999, 14, 181-190.	2.3	33
138	Sr4Al14O25: Formation, Stability, and27Al High-Resolution NMR Characterization. Chemistry of Materials, 2003, 15, 575-579.	6.7	33
139	Morphological and textural control of spray-dried mesoporous silica-based spheres. Journal of Materials Chemistry, 2004, 14, 2006-2016.	6.7	33
140	Accurate heteronuclear J-coupling measurements in dilute spin systems using the multiple-quantum filtered J-resolved experiment. Chemical Communications, 2007, , 2720.	4.1	33
141	Study of the alkaline environment in mixed alkali compositions by multiple-quantum magic angle nuclear magnetic resonance (MQâ€“MAS NMR). Journal of Non-Crystalline Solids, 2008, 354, 333-340.	3.1	33
142	Spin-counting NMR experiments for the spectral editing of structural motifs in solids. Physical Chemistry Chemical Physics, 2008, 10, 1298.	2.8	33
143	⁴⁵Sc Spectroscopy of Solids: Interpretation of Quadrupole Interaction Parameters and Chemical Shifts. Journal of Physical Chemistry C, 2010, 114, 12125-12132.	3.1	33
144	14N NMR in AlN and BN. Solid State Nuclear Magnetic Resonance, 1998, 10, 241-245.	2.3	32

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145	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
146	Synthesis and Structure Resolution of RbLaF4. Inorganic Chemistry, 2012, 51, 2272-2282.	4.0	32
147	Gadolinium and Yttrium Borates: Thermal Behavior and Structural Considerations. Journal of Solid State Chemistry, 2000, 154, 204-213.	2.9	31
148	Structural and spectroscopic characterization of the quenched hexacelsian. Journal of Physics and Chemistry of Solids, 2003, 64, 2253-2268.	4.0	31
149	31P solid-state NMR studies of the short-range order in phosphorusâ€“selenium glasses. Physical Chemistry Chemical Physics, 2010, 12, 1535.	2.8	31
150	Synthesis and Structure Determination of CaSi_{1/3}B_{2/3}O_{8/3}: A New Calcium Borosilicate. Inorganic Chemistry, 2013, 52, 4250-4258.	4.0	31
151	Structure determination of Î²-Pb2ZnF6 by coupling multinuclear solid state NMR, powder XRD and ab initio calculations. Dalton Transactions, 2008, , 6150.	3.3	30
152	NMR parameters in column 13 metal fluoride compounds (AlF3, GaF3, InF3 and TlF) from first principle calculations. Solid State Nuclear Magnetic Resonance, 2014, 59-60, 1-7.	2.3	30
153	²⁵Mg Solid-State NMR of Magnesium Phosphates: High Magnetic Field Experiments and Density Functional Theory Calculations. Journal of Physical Chemistry C, 2012, 116, 19984-19995.	3.1	29
154	New synthesis of mullite. Structural evolution study by 17O, 27Al and 29Si MAS NMR spectroscopy. Journal of Sol-Gel Science and Technology, 1994, 2, 367-370.	2.4	28
155	29Si MAS-NMR in lead silicates. Journal of Non-Crystalline Solids, 1994, 168, 76-85.	3.1	28
156	Preparation of structural analogues of divalent metal monophosphonates, using bis(phosphonic) acids: a new strategy to reduce overcrowding of organic groups in the interlayer space. Journal of Molecular Structure, 1998, 470, 31-38.	3.6	28
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