

Sharon E Ashbrook

List of Publications by Year in descending order

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167
papers

7,907
citations

44069

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docs citations

179
times ranked

6439
citing authors

#	ARTICLE	IF	CITATIONS
1	First-Principles Calculation of NMR Parameters Using the Gauge Including Projector Augmented Wave Method: A Chemist's Point of View. <i>Chemical Reviews</i> , 2012, 112, 5733-5779.	47.7	446
2	A family of zeolites with controlled pore size prepared using a top-down method. <i>Nature Chemistry</i> , 2013, 5, 628-633.	13.6	355
3	Solid state ^{17}O NMR – an introduction to the background principles and applications to inorganic materials. <i>Chemical Society Reviews</i> , 2006, 35, 718-735.	38.1	203
4	Combining solid-state NMR spectroscopy with first-principles calculations – a guide to NMR crystallography. <i>Chemical Communications</i> , 2016, 52, 7186-7204.	4.1	202
5	Solid-state NMR spectroscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	196
6	The Polar Phase of NaNbO_3 : A Combined Study by Powder Diffraction, Solid-State NMR, and First-Principles Calculations. <i>Journal of the American Chemical Society</i> , 2010, 132, 8732-8746.	13.7	178
7	Synthesis, characterisation and adsorption properties of microporous scandium carboxylates with rigid and flexible frameworks. <i>Microporous and Mesoporous Materials</i> , 2011, 142, 322-333.	4.4	170
8	Protecting group and switchable pore-discriminating adsorption properties of a hydrophilic – hydrophobic metal – organic framework. <i>Nature Chemistry</i> , 2011, 3, 304-310.	13.6	141
9	Structural information from quadrupolar nuclei in solid state NMR. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2006, 28A, 183-248.	0.5	136
10	Hydrolytic stability in hemilabile metal – organic frameworks. <i>Nature Chemistry</i> , 2018, 10, 1096-1102.	13.6	134
11	High-resolution NMR of quadrupolar nuclei in solids: the satellite-transition magic angle spinning (STMAS) experiment. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2004, 45, 53-108.	7.5	133
12	New Methods and Applications in Solid-State NMR Spectroscopy of Quadrupolar Nuclei. <i>Journal of the American Chemical Society</i> , 2014, 136, 15440-15456.	13.7	120
13	Recent advances in solid-state NMR spectroscopy of quadrupolar nuclei. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6892.	2.8	114
14	Characterization of Structural Disorder in Ga_2O_3 . <i>Journal of Physical Chemistry C</i> , 2014, 118, 16188-16198.	3.1	107
15	^{17}O and ^{29}Si NMR Parameters of MgSiO_3 Phases from High-Resolution Solid-State NMR Spectroscopy and First-Principles Calculations. <i>Journal of the American Chemical Society</i> , 2007, 129, 13213-13224.	13.7	104
16	Mixed – Metal MIL-100(Sc,M) (M=Al, Cr, Fe) for Lewis Acid Catalysis and Tandem C – C Bond Formation and Alcohol Oxidation. <i>Chemistry - A European Journal</i> , 2014, 20, 17185-17197.	3.3	104
17	Zeolites with Continuously Tuneable Porosity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13210-13214.	13.8	104
18	Multiple-quantum MAS NMR of quadrupolar nuclei. Do five-, seven- and nine-quantum experiments yield higher resolution than the three-quantum experiment?. <i>Solid State Nuclear Magnetic Resonance</i> , 2000, 16, 203-215.	2.3	100

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19	Structure and NMR assignment in calcined and as-synthesized forms of AlPO-14: a combined study by first-principles calculations and high-resolution ^{27}Al - ^{31}P MAS NMR correlation. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5754.	2.8	95
20	A novel structural form of MIL-53 observed for the scandium analogue and its response to temperature variation and CO_2 adsorption. <i>Dalton Transactions</i> , 2012, 41, 3937-3941.	3.3	95
21	^{23}Na multiple-quantum MAS NMR of the perovskites NaNbO_3 and NaTaO_3 . <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3423-3431.	2.8	86
22	High-Resolution ^{19}F MAS NMR Spectroscopy: Structural Disorder and Unusual ^{19}F Couplings in a Fluorinated Hydroxy-Silicate. <i>Journal of the American Chemical Society</i> , 2010, 132, 15651-15660.	13.7	83
23	Task specific ionic liquids for the ionothermal synthesis of siliceous zeolites. <i>Chemical Science</i> , 2010, 1, 483.	7.4	81
24	Applications of NMR Crystallography to Problems in Biomineralization: Refinement of the Crystal Structure and ^{31}P Solid-State NMR Spectral Assignment of Octacalcium Phosphate. <i>Journal of the American Chemical Society</i> , 2012, 134, 12508-12515.	13.7	80
25	New Twists on the Perovskite Theme: Crystal Structures of the Elusive Phases R and S of NaNbO_3 . <i>Inorganic Chemistry</i> , 2012, 51, 6876-6889.	4.0	78
26	Color and Brightness Tuning in Heteronuclear Lanthanide Terephthalate Coordination Polymers. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3464-3476.	2.0	76
27	Structural Chemistry, Monoclinic-to-Orthorhombic Phase Transition, and CO_2 Adsorption Behavior of the Small Pore Scandium Terephthalate, $\text{Sc}_2(\text{O}_2\text{CC}_6\text{H}_4\text{CO}_2)_3$, and Its Nitro- And Amino-Functionalized Derivatives. <i>Inorganic Chemistry</i> , 2011, 50, 10844-10858.	4.0	75
28	Fast room temperature lability of aluminosilicate zeolites. <i>Nature Communications</i> , 2019, 10, 4690.	12.8	75
29	Dynamics on the Microsecond Timescale in Microporous Aluminophosphate AlPO-14 as Evidenced by ^{27}Al MQMAS and STMAS NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 8054-8062.	13.7	72
30	Satellite-Transition MAS NMR of Spin $I=3/2, 5/2, 7/2,$ and $9/2$ Nuclei: Sensitivity, Resolution, and Practical Implementation. <i>Journal of Magnetic Resonance</i> , 2002, 156, 269-281.	2.1	71
31	Recent developments in solid-state NMR spectroscopy of crystalline microporous materials. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8223-8242.	2.8	69
32	Motional broadening: an important distinction between multiple-quantum and satellite-transition MAS NMR of quadrupolar nuclei. <i>Chemical Physics Letters</i> , 2002, 364, 634-642.	2.6	67
33	First-principles calculations of solid-state ^{17}O and ^{29}Si NMR spectra of Mg_2SiO_4 polymorphs. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1587-1598.	2.8	65
34	Control of polymorphism in NaNbO_3 by hydrothermal synthesis. <i>Chemical Communications</i> , 2009, , 68-70.	4.1	65
35	Exploiting NMR spectroscopy for the study of disorder in solids. <i>International Reviews in Physical Chemistry</i> , 2017, 36, 39-115.	2.3	65
36	High-resolution solid-state ^{13}C NMR spectroscopy of the paramagnetic metal-organic frameworks, STAM-1 and HKUST-1. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 919-929.	2.8	64

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37	In situ solid-state NMR and XRD studies of the ADOR process and the unusual structure of zeolite IPC-6. <i>Nature Chemistry</i> , 2017, 9, 1012-1018.	13.6	63
38	²⁷ Al multiple-quantum MAS and ²⁷ Al{ ¹ H} CPMAS NMR study of amorphous aluminosilicates. <i>Journal of Non-Crystalline Solids</i> , 2001, 282, 278-290.	3.1	62
39	Cation Disorder in Pyrochlore Ceramics: ⁸⁹ Y MAS NMR and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18874-18883.	3.1	62
40	Solid-State ¹⁷ O NMR Spectroscopy of Hydrous Magnesium Silicates: Evidence for Proton Dynamics. <i>Journal of Physical Chemistry C</i> , 2009, 113, 465-471.	3.1	61
41	² H double-quantum MAS NMR spectroscopy as a probe of dynamics on the microsecond timescale in solids. <i>Chemical Physics Letters</i> , 2006, 423, 276-281.	2.6	58
42	Multirate delivery of multiple therapeutic agents from metal-organic frameworks. <i>APL Materials</i> , 2014, 2, .	5.1	58
43	Ionothermal ¹⁷ O enrichment of oxides using microlitre quantities of labelled water. <i>Chemical Science</i> , 2012, 3, 2293.	7.4	57
44	The pyrochlore to defect fluorite phase transition in Y ₂ Sn _{2-<i>x</i>} Zr _{<i>x</i>} O ₇ . <i>RSC Advances</i> , 2013, 3, 5090.	3.6	55
45	Exploiting Periodic First-Principles Calculations in NMR Spectroscopy of Disordered Solids. <i>Accounts of Chemical Research</i> , 2013, 46, 1964-1974.	15.6	53
46	Multiple-quantum cross-polarization in MAS NMR of quadrupolar nuclei. <i>Chemical Physics Letters</i> , 1998, 288, 509-517.	2.6	52
47	Multiple-Quantum Cross-Polarization and Two-Dimensional MQMAS NMR of Quadrupolar Nuclei. <i>Journal of Magnetic Resonance</i> , 2000, 147, 238-249.	2.1	52
48	DFT calculations of quadrupolar solid-state NMR properties: Some examples in solid-state inorganic chemistry. <i>Journal of Computational Chemistry</i> , 2008, 29, 2279-2287.	3.3	52
49	⁹³ Nb NMR and DFT investigation of the polymorphs of NaNbO ₃ . <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7565.	2.8	50
50	Multiple-Quantum and Cross-Polarized ²⁷ Al MAS NMR of Mechanically Treated Mixtures of Kaolinite and Gibbsite. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6408-6416.	2.6	49
51	¹¹⁹ Sn MAS NMR and first-principles calculations for the investigation of disorder in stannate pyrochlores. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 488-497.	2.8	49
52	Cost-effective ¹⁷ O enrichment and NMR spectroscopy of mixed-metal terephthalate metal-organic frameworks. <i>Chemical Science</i> , 2018, 9, 850-859.	7.4	49
53	Spin-locking of half-integer quadrupolar nuclei in nuclear magnetic resonance of solids: Second-order quadrupolar and resonance offset effects. <i>Journal of Chemical Physics</i> , 2009, 131, 194509.	3.0	48
54	Facile, Room-Temperature ¹⁷ O Enrichment of Zeolite Frameworks Revealed by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 900-906.	13.7	48

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55	89Y Magic-Angle Spinning NMR of Y ₂ Ti ₂ -xSn _x O ₇ Pyrochlores. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10358-10364.	2.6	47
56	Recent Advances in Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Annual Review of Analytical Chemistry</i> , 2018, 11, 485-508.	5.4	45
57	Molecular Modeling, Multinuclear NMR, and Diffraction Studies in the Templated Synthesis and Characterization of the Aluminophosphate Molecular Sieve STA-2. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12698-12710.	3.1	44
58	A co-templating route to the synthesis of Cu SAPO STA-7, giving an active catalyst for the selective catalytic reduction of NO. <i>Microporous and Mesoporous Materials</i> , 2011, 146, 36-47.	4.4	44
59	Single- and multiple-quantum cross-polarization in NMR of quadrupolar nuclei in static samples. <i>Molecular Physics</i> , 2000, 98, 1-26.	1.7	42
60	Synthesis, Isotopic Enrichment, and Solid-State NMR Characterization of Zeolites Derived from the Assembly, Disassembly, Organization, Reassembly Process. <i>Journal of the American Chemical Society</i> , 2017, 139, 5140-5148.	13.7	42
61	Exploiting the Chemical Shielding Anisotropy to Probe Structure and Disorder in Ceramics: 89Y MAS NMR and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4273-4286.	3.1	41
62	Water in the Earth's mantle: a solid-state NMR study of hydrous wadsleyite. <i>Chemical Science</i> , 2013, 4, 1523.	7.4	41
63	Transformation of AlPO ₅ to JDF-2: Reversible Dehydration of a Templated Aluminophosphate Studied by MAS NMR and Diffraction. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10780-10789.	3.1	40
64	¹⁷ O Multiple-Quantum MAS NMR Study of High-Pressure Hydrous Magnesium Silicates. <i>Journal of the American Chemical Society</i> , 2001, 123, 6360-6366.	13.7	39
65	Structural Study of La _{1-x} Y _x ScO ₃ , Combining Neutron Diffraction, Solid-State NMR, and First-Principles DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2252-2265.	3.1	39
66	Structure and NMR assignment in AlPO ₄ -15: A combined study by diffraction, MAS NMR and first-principles calculations. <i>Solid State Sciences</i> , 2009, 11, 1001-1006.	3.2	38
67	Noncovalent Interactions in Peri-Substituted Chalconium Acenaphthene and Naphthalene Salts: A Combined Experimental, Crystallographic, Computational, and Solid-State NMR Study. <i>Inorganic Chemistry</i> , 2012, 51, 11087-11097.	4.0	38
68	Three- and five-quantum ¹⁷ O MAS NMR of forsterite Mg ₂ SiO ₄ . <i>American Mineralogist</i> , 1999, 84, 1191-1194.	1.9	37
69	¹⁷ O Multiple-Quantum MAS NMR Study of Pyroxenes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 773-778.	2.6	37
70	Relative Orientation of Quadrupole Tensors from Two-Dimensional Multiple-Quantum MAS NMR. <i>Journal of the American Chemical Society</i> , 2001, 123, 8135-8136.	13.7	35
71	Novel Large-Pore Aluminophosphate Molecular Sieve STA-15 Prepared Using the Tetrapropylammonium Cation As a Structure Directing Agent. <i>Chemistry of Materials</i> , 2010, 22, 338-346.	6.7	35
72	High-Resolution ¹⁷ O NMR Spectroscopy of Wadsleyite (¹⁷ O-Mg ₂ SiO ₄). <i>Journal of the American Chemical Society</i> , 2003, 125, 11824-11825.	13.7	34

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73	Towards homonuclear J solid-state NMR correlation experiments for half-integer quadrupolar nuclei: experimental and simulated ^{11}B MAS spin-echo dephasing and calculated $2J_{\text{BB}}$ coupling constants for lithium diborate. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5778.	2.8	34
74	Determining the Surface Structure of Silicated Alumina Catalysts via Isotopic Enrichment and Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22977-22984.	3.1	34
75	^{17}O NMR spectroscopy of crystalline microporous materials. <i>Chemical Science</i> , 2021, 12, 5016-5036.	7.4	33
76	Relative Orientation of Quadrupole Tensors from High-Resolution NMR of Powdered Solids. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9470-9478.	2.5	32
77	Correlating fast and slow chemical shift spinning sideband patterns in solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2005, 174, 301-309.	2.1	32
78	Calculating NMR parameters in aluminophosphates: evaluation of dispersion correction schemes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2660.	2.8	32
79	Two-dimensional satellite-transition MAS NMR of quadrupolar nuclei: shifted echoes, high-spin nuclei and resolution. <i>Chemical Physics Letters</i> , 2001, 345, 400-408.	2.6	31
80	Spin-locking of half-integer quadrupolar nuclei in nuclear magnetic resonance of solids: Creation and evolution of coherences. <i>Journal of Chemical Physics</i> , 2004, 120, 2719-2731.	3.0	31
81	Unusual Phase Behavior in the Piezoelectric Perovskite System, $\text{Li}_x\text{Na}_{1-x}\text{NbO}_3$. <i>Inorganic Chemistry</i> , 2013, 52, 8872-8880.	4.0	31
82	Exploiting Synthetic Conditions to Promote Structural Diversity within the Scandium(III)/Pyrimidine-4,6-dicarboxylate System. <i>Crystal Growth and Design</i> , 2015, 15, 2352-2363.	3.0	31
83	^{27}Al Multiple-Quantum Magic Angle Spinning NMR Study of the Thermal Transformation between the Microporous Aluminum Methylphosphonates AlMePO_2 and AlMePO_3 . <i>Journal of Physical Chemistry B</i> , 1999, 103, 812-817.	2.6	30
84	Dynamics on the microsecond timescale in hydrous silicates studied by solid-state ^2H NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2989.	2.8	30
85	<i>Peri</i> -Substituted Phosphorus-Tellurium Systems: An Experimental and Theoretical Investigation of the $\text{P}_4\text{-Te}$ through-Space Interaction. <i>Inorganic Chemistry</i> , 2015, 54, 2435-2446.	4.0	30
86	Solid-state ^{17}O nuclear magnetic resonance spectroscopy without isotopic enrichment: direct detection of bridging oxygen in radiation damaged zircon. <i>Solid State Nuclear Magnetic Resonance</i> , 2004, 26, 105-112.	2.3	29
87	Satellite-Transition MAS NMR of Low- ^1I Nuclei at Natural Abundance: Sensitivity, Practical Implementation, and Application to ^{39}K ($I = 3/2$) and ^{25}Mg ($I = 5/2$). <i>Journal of Physical Chemistry B</i> , 2004, 108, 13292-13299.	2.6	29
88	Ensemble-Based Modeling of the NMR Spectra of Solid Solutions: Cation Disorder in $\text{Y}_2(\text{Sn,Ti})_7\text{O}_{27}$. <i>Journal of the American Chemical Society</i> , 2019, 141, 17838-17846.	18.7	29
89	Second-order cross-term interactions in high-resolution MAS NMR of quadrupolar nuclei. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2009, 55, 160-181.	7.5	28
90	Application of NMR crystallography to the determination of the mechanism of charge-balancing in organocation-templated AlPO STA-2 . <i>CrystEngComm</i> , 2013, 15, 8668.	2.6	28

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91	Probing interactions through space using spin-spin coupling. Dalton Transactions, 2014, 43, 6548-6560.	3.3	28
92	An NMR Crystallographic Investigation of the Relationships between the Crystal Structure and ²⁹ Si Isotropic Chemical Shift in Silica Zeolites. Journal of Physical Chemistry C, 2017, 121, 15198-15210.	3.1	28
93	Perspective: Current advances in solid-state NMR spectroscopy. Journal of Chemical Physics, 2018, 149, 040901.	3.0	28
94	Synthesis and Polymorphism of Mixed Aluminum-Gallium Oxides. Inorganic Chemistry, 2020, 59, 3805-3816.	4.0	28
95	Rotor-synchronized acquisition of quadrupolar satellite-transition NMR spectra: practical aspects and double-quantum filtration. Journal of Magnetic Resonance, 2005, 177, 44-55.	2.1	26
96	Characterisation of the (Y _{1-x} La _x) ₂ Ti ₂ O ₇ system by powder diffraction and nuclear magnetic resonance methods. Journal of Materials Chemistry, 2006, 16, 4665-4674.	6.7	26
97	Visualization of the effect of additives on the nanostructures of individual bio-inspired calcite crystals. Chemical Science, 2019, 10, 1176-1185.	7.4	26
98	⁷⁷ Se Solid-State NMR of Inorganic and Organoselenium Systems: A Combined Experimental and Computational Study. Journal of Physical Chemistry C, 2011, 115, 10859-10872.	3.1	25
99	Observation of "hidden" magnesium: First-principles calculations and ²⁵ Mg solid-state NMR of enstatite. Solid State Nuclear Magnetic Resonance, 2011, 40, 91-99.	2.3	25
100	A Multinuclear NMR Study of Six Forms of AlPO-34: Structure and Motional Broadening. Journal of Physical Chemistry C, 2017, 121, 1781-1793.	3.1	25
101	High-Resolution NMR Spectroscopy of Quadrupolar Nuclei in Solids: Satellite-Transition MAS with Self-Compensation for Magic-Angle Misset. Journal of the American Chemical Society, 2002, 124, 11602-11603.	13.7	24
102	High-resolution ¹⁷ O MAS NMR spectroscopy of forsterite (Mg ₂ SiO ₄), wadsleyite (Mg ₂ SiO ₄), and ringwoodite (Mg ₂ SiO ₄). American Mineralogist, 2005, 90, 1861-1870.	1.9	24
103	A Multinuclear Solid-State NMR Study of Templated and Calcined Chabazite-Type GaPO-34. Journal of Physical Chemistry C, 2012, 116, 15048-15057.	3.1	24
104	Unusual Intermolecular Through-Space J Couplings in Se Heterocycles. Journal of the American Chemical Society, 2015, 137, 6172-6175.	13.7	24
105	Octaselenocyclododecane. Angewandte Chemie - International Edition, 2011, 50, 4123-4126.	13.8	23
106	Investigating Relationships between the Crystal Structure and ³¹ P Isotropic Chemical Shifts in Calcined Aluminophosphates. Journal of Physical Chemistry C, 2014, 118, 23285-23296.	3.1	23
107	Second-order quadrupole-shielding effects in magic-angle spinning solid-state nuclear magnetic resonance. Journal of Chemical Physics, 2003, 118, 3131-3140.	3.0	22
108	New insights into phase distribution, phase composition and disorder in Y ₂ (Zr,Sn) ₂ O ₇ ceramics from NMR spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 9049-9059.	2.8	22

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109	Paramagnetic NMR of Phenolic Oxime Copper Complexes: A Joint Experimental and Density Functional Study. <i>Chemistry - A European Journal</i> , 2016, 22, 15328-15339.	3.3	22
110	STA-27, a porous Lewis acidic scandium MOF with an unexpected topology type prepared with 2,3,5,6-tetrakis(4-carboxyphenyl)pyrazine. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5685-5701.	10.3	22
111	A procedure for identifying possible products in the assembly–disassembly–organization–reassembly (ADOR) synthesis of zeolites. <i>Nature Protocols</i> , 2019, 14, 781-794.	12.0	22
112	A multiple-quantum ²³ Na MAS NMR study of amorphous sodium gallium silicate zeolite precursors. <i>Journal of Materials Chemistry</i> , 2002, 12, 1469-1474.	6.7	21
113	Detecting solid-state reactivity in 10-hydroxy-10,9-boroxophenanthrene using NMR spectroscopy. <i>Tetrahedron</i> , 2010, 66, 6238-6250.	1.9	21
114	Investigation of zeolitic imidazolate frameworks using ¹³ C and ¹⁵ N solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 54-64.	2.3	21
115	Pressure-induced chemistry for the 2D to 3D transformation of zeolites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5255-5259.	10.3	21
116	Kinetics and Mechanism of the Hydrolysis and Rearrangement Processes within the Assembly–Disassembly–Organization–Reassembly Synthesis of Zeolites. <i>Journal of the American Chemical Society</i> , 2019, 141, 4453-4459.	13.7	21
117	NMR spectroscopy of minerals and allied materials. <i>Nuclear Magnetic Resonance</i> , 2016, , 1-52.	0.2	21
118	Novel two-dimensional NMR methods that combine single-quantum cross-polarization and multiple-quantum MAS of quadrupolar nuclei. <i>Chemical Physics Letters</i> , 2001, 340, 500-508.	2.6	20
119	Disorder and Dynamics in Pollucite from ¹³³ Cs and ²⁷ Al NMR. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1575-1583.	3.8	20
120	²⁷ Al Multiple-Quantum MAS NMR of Mechanically Treated Bayerite (±-Al(OH) ₃) and Silica Mixtures. <i>Solid State Nuclear Magnetic Resonance</i> , 2001, 20, 87-99.	2.3	19
121	Efficient Amplitude-Modulated Pulses for Triple- to Single-Quantum Coherence Conversion in MQMAS NMR. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6018-6025.	2.5	19
122	Conformational Dependence of Through-Space Tellurium–Tellurium Spin–Spin Coupling in <i>Peri</i> -Substituted Bis(Tellurides). <i>Chemistry - A European Journal</i> , 2015, 21, 3613-3627.	3.3	19
123	Hunting for hydrogen: random structure searching and prediction of NMR parameters of hydrous wadsleyite. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10173-10181.	2.8	19
124	Solid-State NMR Spectroscopy Proves the Presence of Penta-coordinated Sc Sites in MIL-100(Sc). <i>Chemistry - A European Journal</i> , 2017, 23, 9525-9534.	3.3	19
125	Sterically Restricted Tin Phosphines, Stabilized by Weak Intramolecular Donor–Acceptor Interactions. <i>Organometallics</i> , 2014, 33, 2424-2433.	2.3	18
126	Selective Oxidation and Functionalization of 6-Diphenylphosphinoacenaphthyl-5-tellurenyl Species 6-Ph ₂ P-Ace-5-TeX (X = Mes, Cl, O ₃ SCF ₃). Various Types of P–E–Te(II,IV) Bonding Situations (E = O, S, Se). <i>Organometallics</i> , 2017, 36, 1566-1579.	2.3	18

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127	Nuclear Overhauser Effect (NOE) Enhancement of ^{11}B NMR Spectra of Borane Adducts in the Solid State. <i>Journal of the American Chemical Society</i> , 2006, 128, 6782-6783.	13.7	17
128	Solid-state NMR measurements and DFT calculations of the magnetic shielding tensors of protons of water trapped in barium chlorate monohydrate. <i>RSC Advances</i> , 2014, 4, 56248-56258.	3.6	17
129	Ionothermal synthesis and characterization of CoAPO-34 molecular sieve. <i>Microporous and Mesoporous Materials</i> , 2017, 239, 336-341.	4.4	17
130	NMR chemical shifts of urea loaded copper benzoate. A joint solid-state NMR and DFT study. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 101, 31-37.	2.3	17
131	SCAM-STMAS: satellite-transition MAS NMR of quadrupolar nuclei with self-compensation for magic-angle misset. <i>Journal of Magnetic Resonance</i> , 2003, 162, 402-416.	2.1	16
132	Following the unusual breathing behaviour of ^{17}O -enriched mixed-metal (Al,Ga)-MIL-53 using NMR crystallography. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14514-14526.	2.8	16
133	Phase Composition and Disorder in $\text{La}_{2}(\text{Sn,Ti})_{2}\text{O}_{7}$ Ceramics: New Insights from NMR Crystallography. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20288-20296.	3.1	15
134	Investigating Unusual Homonuclear Intermolecular $^{\infty}\text{Through-Space}^{\infty}\text{J}$ Couplings in Organochalcogen Systems. <i>Inorganic Chemistry</i> , 2016, 55, 10881-10887.	4.0	15
135	Formation Mechanism and Porosity Development in Porous Boron Nitride. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27429-27439.	3.1	15
136	Disordered lithium niobate rock-salt materials prepared by hydrothermal synthesis. <i>Dalton Transactions</i> , 2010, 39, 6031.	3.3	14
137	An NMR crystallographic approach to monitoring cation substitution in the aluminophosphate STA-2. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 65, 64-74.	2.3	14
138	STARTMAS: A MAS-based method for acquiring isotropic NMR spectra of spin $I=3/2$ nuclei in real time. <i>Chemical Physics Letters</i> , 2006, 431, 390-396.	2.6	13
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