

# Sharon Ashbrook

## List of Publications by Year in descending order

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178  
papers

8,238  
citations

41344

49  
h-index

62596

80  
g-index

186  
all docs

186  
docs citations

186  
times ranked

7030  
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 $^{17}\text{O}$ 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 $\text{NaNbO}_3$ : 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	Early Stage Reversed Crystal Growth of Zeolite A and Its Phase Transformation to Sodalite. <i>Journal of the American Chemical Society</i> , 2009, 131, 17986-17992.	13.7	129
13	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
14	Recent advances in solid-state NMR spectroscopy of quadrupolar nuclei. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6892.	2.8	114
15	Characterization of Structural Disorder in $\text{Ga}_2\text{O}_3$ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 16188-16198.	3.1	107
16	$^{17}\text{O}$ and $^{29}\text{Si}$ NMR Parameters of $\text{MgSiO}_3$ 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
17	Mixed – Metal MIL-100(Sc,M) (M=Al, Cr, Fe) for Lewis Acid Catalysis and Tandem $\text{C}\equiv\text{C}$ Bond Formation and Alcohol Oxidation. <i>Chemistry - A European Journal</i> , 2014, 20, 17185-17197.	3.3	104
18	Zeolites with Continuously Tuneable Porosity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13210-13214.	13.8	104

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19	Synthesis and characterization of hybrid organic/inorganic nanotubes of the imogolite type and their behaviour towards methane adsorption. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 744-750.	2.8	102
20	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
21	Structure and NMR assignment in calcined and as-synthesized forms of AlPO-14: a combined study by first-principles calculations and high-resolution $^{27}\text{Al}$ - $^{31}\text{P}$ MAS NMR correlation. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5754.	2.8	95
22	A novel structural form of MIL-53 observed for the scandium analogue and its response to temperature variation and $\text{CO}_2$ adsorption. <i>Dalton Transactions</i> , 2012, 41, 3937-3941.	3.3	95
23	$^{23}\text{Na}$ multiple-quantum MAS NMR of the perovskites $\text{NaNbO}_3$ and $\text{NaTaO}_3$ . <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3423-3431.	2.8	86
24	High-Resolution $^{19}\text{F}$ MAS NMR Spectroscopy: Structural Disorder and Unusual $^1\text{J}$ Couplings in a Fluorinated Hydroxy-Silicate. <i>Journal of the American Chemical Society</i> , 2010, 132, 15651-15660.	13.7	83
25	Task specific ionic liquids for the ionothermal synthesis of siliceous zeolites. <i>Chemical Science</i> , 2010, 1, 483.	7.4	81
26	Applications of NMR Crystallography to Problems in Biomineralization: Refinement of the Crystal Structure and $^{31}\text{P}$ Solid-State NMR Spectral Assignment of Octacalcium Phosphate. <i>Journal of the American Chemical Society</i> , 2012, 134, 12508-12515.	13.7	80
27	New Twists on the Perovskite Theme: Crystal Structures of the Elusive Phases R and S of $\text{NaNbO}_3$ . <i>Inorganic Chemistry</i> , 2012, 51, 6876-6889.	4.0	78
28	Color and Brightness Tuning in Heteronuclear Lanthanide Terephthalate Coordination Polymers. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3464-3476.	2.0	76
29	Structural Chemistry, Monoclinic-to-Orthorhombic Phase Transition, and $\text{CO}_2$ 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
30	Fast room temperature lability of aluminosilicate zeolites. <i>Nature Communications</i> , 2019, 10, 4690.	12.8	75
31	Dynamics on the Microsecond Timescale in Microporous Aluminophosphate AlPO-14 as Evidenced by $^{27}\text{Al}$ MQMAS and STMAS NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 8054-8062.	13.7	72
32	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
33	Recent developments in solid-state NMR spectroscopy of crystalline microporous materials. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8223-8242.	2.8	69
34	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
35	First-principles calculations of solid-state $^{17}\text{O}$ and $^{29}\text{Si}$ NMR spectra of $\text{Mg}_2\text{SiO}_4$ polymorphs. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1587-1598.	2.8	65
36	Control of polymorphism in $\text{NaNbO}_3$ by hydrothermal synthesis. <i>Chemical Communications</i> , 2009, , 68-70.	4.1	65

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37	Exploiting NMR spectroscopy for the study of disorder in solids. <i>International Reviews in Physical Chemistry</i> , 2017, 36, 39-115.	2.3	65
38	High-resolution solid-state <sup>13</sup> 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
39	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
40	Cation Disorder in Pyrochlore Ceramics: <sup>89</sup> Y MAS NMR and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18874-18883.	3.1	62
41	Solid-State <sup>17</sup> 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
42	<sup>2</sup> 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
43	Multirate delivery of multiple therapeutic agents from metal-organic frameworks. <i>APL Materials</i> , 2014, 2, .	5.1	58
44	Isothermal <sup>17</sup> O enrichment of oxides using microlitre quantities of labelled water. <i>Chemical Science</i> , 2012, 3, 2293.	7.4	57
45	The pyrochlore to defect fluorite phase transition in Y <sub>2</sub> Sn <sub>2</sub> xZrxO <sub>7</sub> . <i>RSC Advances</i> , 2013, 3, 5090.	3.6	55
46	Exploiting Periodic First-Principles Calculations in NMR Spectroscopy of Disordered Solids. <i>Accounts of Chemical Research</i> , 2013, 46, 1964-1974.	15.6	53
47	Multiple-quantum cross-polarization in MAS NMR of quadrupolar nuclei. <i>Chemical Physics Letters</i> , 1998, 288, 509-517.	2.6	52
48	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
49	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
50	<sup>93</sup> Nb NMR and DFT investigation of the polymorphs of NaNbO <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7565.	2.8	50
51	<sup>119</sup> 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	Synthesis and crystal chemistry of the STA-12 family of metal N,N'-piperazinebis(methylenephosphonate)s and applications of STA-12(Ni) in the separation of gases. <i>Microporous and Mesoporous Materials</i> , 2012, 157, 3-17.	4.4	49
53	Cost-effective <sup>17</sup> O enrichment and NMR spectroscopy of mixed-metal terephthalate metal-organic frameworks. <i>Chemical Science</i> , 2018, 9, 850-859.	7.4	49
54	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

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55	Facile, Room-Temperature <sup>17</sup> 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
56	89Y Magic-Angle Spinning NMR of Y <sub>2</sub> Ti <sub>2-x</sub> Sn <sub>x</sub> O <sub>7</sub> Pyrochlores. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10358-10364.	2.6	47
57	Recent Advances in Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Annual Review of Analytical Chemistry</i> , 2018, 11, 485-508.	5.4	45
58	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
59	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
60	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
61	Multinuclear Magnetic Resonance and DFT Studies of the Poly(chlorotrifluoroethylene- <i>i&gt;alt&lt;/i&gt;-ethyl vinyl ether) Copolymers. <i>Macromolecules</i>, 2009, 42, 5652-5659.</i>	4.8	42
62	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
63	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
64	Water in the Earth's mantle: a solid-state NMR study of hydrous wadsleyite. <i>Chemical Science</i> , 2013, 4, 1523.	7.4	41
65	Transformation of AlPO-53 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
66	A Bifunctional MOF Catalyst Containing Metal-Phosphine and Lewis Acidic Active Sites. <i>Chemistry - A European Journal</i> , 2018, 24, 15309-15318.	3.3	40
67	<sup>17</sup> 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
68	Structural Study of La <sub>1-x</sub> Y <sub>x</sub> ScO <sub>3</sub> , 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
69	Structure and NMR assignment in AlPO <sub>4</sub> -15: A combined study by diffraction, MAS NMR and first-principles calculations. <i>Solid State Sciences</i> , 2009, 11, 1001-1006.	3.2	38
70	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
71	Three- and five-quantum <sup>17</sup> O MAS NMR of forsterite Mg <sub>2</sub> SiO <sub>4</sub> . <i>American Mineralogist</i> , 1999, 84, 1191-1194.	1.9	37
72	<sup>17</sup> O Multiple-Quantum MAS NMR Study of Pyroxenes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 773-778.	2.6	37

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73	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
74	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
75	Synthesis of Chiral MOF <sup>74</sup> Frameworks by Post <sup>6</sup> Synthetic Modification by Using an Amino Acid. <i>Chemistry - A European Journal</i> , 2020, 26, 13957-13965.	3.3	35
76	High-Resolution <sup>17</sup> O NMR Spectroscopy of Wadsleyite ( <sup>12</sup> -Mg <sub>2</sub> SiO <sub>4</sub> ). <i>Journal of the American Chemical Society</i> , 2003, 125, 11824-11825.	13.7	34
77	Towards homonuclear J solid-state NMR correlation experiments for half-integer quadrupolar nuclei: experimental and simulated <sup>11</sup> B MAS spin-echo dephasing and calculated 2J <sub>BB</sub> coupling constants for lithium diborate. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5778.	2.8	34
78	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
79	<sup>17</sup> O NMR spectroscopy of crystalline microporous materials. <i>Chemical Science</i> , 2021, 12, 5016-5036.	7.4	33
80	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
81	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
82	Calculating NMR parameters in aluminophosphates: evaluation of dispersion correction schemes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2660.	2.8	32
83	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
84	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
85	Unusual Phase Behavior in the Piezoelectric Perovskite System, Li <sub>x</sub> Na <sub>1-x</sub> NbO <sub>3</sub> . <i>Inorganic Chemistry</i> , 2013, 52, 8872-8880.	4.0	31
86	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
87	<sup>27</sup> Al Multiple-Quantum Magic Angle Spinning NMR Study of the Thermal Transformation between the Microporous Aluminum Methylphosphonates AlMePO <sup>12</sup> and AlMePO <sup>1±</sup> . <i>Journal of Physical Chemistry B</i> , 1999, 103, 812-817.	2.6	30
88	Dynamics on the microsecond timescale in hydrous silicates studied by solid-state <sup>2</sup> H NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2989.	2.8	30
89	<i>Peri</i> -Substituted Phosphorus <sup>6</sup> Tellurium Systems <sup>6</sup> —An Experimental and Theoretical Investigation of the P <sup>6</sup> Te through-Space Interaction. <i>Inorganic Chemistry</i> , 2015, 54, 2435-2446.	4.0	30
90	Solid-state <sup>17</sup> 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

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91	Satellite-Transition MAS NMR of Low- $^{13}\text{C}$ Nuclei at Natural Abundance: $\hat{\Delta}$ Sensitivity, Practical Implementation, and Application to $^{39}\text{K}$ ( $I = 3/2$ ) and $^{25}\text{Mg}$ ( $I = 5/2$ ). <i>Journal of Physical Chemistry B</i> , 2004, 108, 13292-13299.	2.6	29
92	Ensemble-Based Modeling of the NMR Spectra of Solid Solutions: Cation Disorder in $\text{Y}_{2}(\text{Sn,Ti})_{2}\text{O}_{7}$ . <i>Journal of the American Chemical Society</i> , 2019, 141, 17838-17846.	13.7	29
93	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
94	Application of NMR crystallography to the determination of the mechanism of charge-balancing in organocation-templated $\text{AlPO STA-2}$ . <i>CrystEngComm</i> , 2013, 15, 8668.	2.6	28
95	Probing interactions through space using spin-spin coupling. <i>Dalton Transactions</i> , 2014, 43, 6548-6560.	3.3	28
96	An NMR Crystallographic Investigation of the Relationships between the Crystal Structure and $^{29}\text{Si}$ Isotropic Chemical Shift in Silica Zeolites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15198-15210.	3.1	28
97	Perspective: Current advances in solid-state NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2018, 149, 040901.	3.0	28
98	Synthesis and Polymorphism of Mixed Aluminum-Gallium Oxides. <i>Inorganic Chemistry</i> , 2020, 59, 3805-3816.	4.0	28
99	Synthesis of ZIF-93/11 Hybrid Nanoparticles via Post-Synthetic Modification of ZIF-93 and Their Use for $\text{H}_{2}/\text{CO}_{2}$ Separation. <i>Chemistry - A European Journal</i> , 2018, 24, 11211-11219.	3.3	27
100	Rotor-synchronized acquisition of quadrupolar satellite-transition NMR spectra: practical aspects and double-quantum filtration. <i>Journal of Magnetic Resonance</i> , 2005, 177, 44-55.	2.1	26
101	Characterisation of the $(\text{Y}_{1-x}\text{La}_x)_2\text{Ti}_2\text{O}_7$ system by powder diffraction and nuclear magnetic resonance methods. <i>Journal of Materials Chemistry</i> , 2006, 16, 4665-4674.	6.7	26
102	Visualization of the effect of additives on the nanostructures of individual bio-inspired calcite crystals. <i>Chemical Science</i> , 2019, 10, 1176-1185.	7.4	26
103	$^{77}\text{Se}$ Solid-State NMR of Inorganic and Organoselenium Systems: A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10859-10872.	3.1	25
104	Observation of "hidden" magnesium: First-principles calculations and $^{25}\text{Mg}$ solid-state NMR of enstatite. <i>Solid State Nuclear Magnetic Resonance</i> , 2011, 40, 91-99.	2.3	25
105	A Multinuclear NMR Study of Six Forms of $\text{AlPO-34}$ : Structure and Motional Broadening. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1781-1793.	3.1	25
106	High-Resolution NMR Spectroscopy of Quadrupolar Nuclei in Solids: $\hat{\Delta}$ Satellite-Transition MAS with Self-Compensation for Magic-Angle Misset. <i>Journal of the American Chemical Society</i> , 2002, 124, 11602-11603.	13.7	24
107	High-resolution $^{17}\text{O}$ MAS NMR spectroscopy of forsterite ( $\hat{\Delta}\text{-Mg}_2\text{SiO}_4$ ), wadsleyite ( $\hat{\Delta}\text{-Mg}_2\text{SiO}_4$ ), and ringwoodite ( $\hat{\Delta}\text{-Mg}_2\text{SiO}_4$ ). <i>American Mineralogist</i> , 2005, 90, 1861-1870.	1.9	24
108	A Multinuclear Solid-State NMR Study of Templated and Calcined Chabazite-Type $\text{GaPO-34}$ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 15048-15057.	3.1	24



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109	Unusual Intermolecular "Through-Space" Couplings in Se Heterocycles. <i>Journal of the American Chemical Society</i> , 2015, 137, 6172-6175.	13.7	24
110	Octaselenocyclododecane. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4123-4126.	13.8	23
111	Investigating Relationships between the Crystal Structure and <sup>31</sup> P Isotropic Chemical Shifts in Calcined Aluminophosphates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23285-23296.	3.1	23
112	Exploring the self-assembly and energy transfer of dynamic supramolecular iridium-porphyrin systems. <i>Dalton Transactions</i> , 2016, 45, 17195-17205.	3.3	23
113	Modulator-Controlled Synthesis of Microporous STA-26, an Interpenetrated 8,3-Connected Zirconium MOF with the Topology, and its Reversible Lattice Shift. <i>Chemistry - A European Journal</i> , 2018, 24, 6115-6126.	3.3	23
114	New insights into phase distribution, phase composition and disorder in Y <sub>2</sub> (Zr,Sn) <sub>2</sub> O <sub>7</sub> ceramics from NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9049-9059.	2.8	22
115	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
116	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
117	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
118	A multiple-quantum <sup>23</sup> Na MAS NMR study of amorphous sodium gallium silicate zeolite precursors. <i>Journal of Materials Chemistry</i> , 2002, 12, 1469-1474.	6.7	21
119	Detecting solid-state reactivity in 10-hydroxy-10,9-boroxophenanthrene using NMR spectroscopy. <i>Tetrahedron</i> , 2010, 66, 6238-6250.	1.9	21
120	Investigation of zeolitic imidazolate frameworks using <sup>13</sup> C and <sup>15</sup> N solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 54-64.	2.3	21
121	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
122	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
123	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
124	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
125	Conformational Dependence of Through-Space Tellurium Spin-Spin Coupling in Per-substituted Bis(Tellurides). <i>Chemistry - A European Journal</i> , 2015, 21, 3613-3627.	3.3	19
126	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



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127	Solid-State NMR Spectroscopy Proves the Presence of Penta-coordinated Sc Sites in MIL-100(Sc). Chemistry - A European Journal, 2017, 23, 9525-9534.	3.3	19
128	Sterically Restricted Tin Phosphines, Stabilized by Weak Intramolecular Donor-Acceptor Interactions. Organometallics, 2014, 33, 2424-2433.	2.3	18
129	[1,2,5]Selenadiazolo[3,4-b]pyrazines: Synthesis from 3,4-Diamino-1,2,5-selenadiazole and Generation of Persistent Radical Anions. European Journal of Organic Chemistry, 2015, 2015, 5585-5593.	2.4	18
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