

# Zhehong Gan

## List of Publications by Year in descending order

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219  
papers

11,884  
citations

44042

48  
h-index

31818

101  
g-index

228  
all docs

228  
docs citations

228  
times ranked

10576  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling one- and two-dimensional solid-state NMR spectra. <i>Magnetic Resonance in Chemistry</i> , 2002, 40, 70-76.	1.1	3,565
2	Mg/Al Ordering in Layered Double Hydroxides Revealed by Multinuclear NMR Spectroscopy. <i>Science</i> , 2008, 321, 113-117.	6.0	591
3	Isotropic NMR Spectra of Half-Integer Quadrupolar Nuclei Using Satellite Transitions and Magic-Angle Spinning. <i>Journal of the American Chemical Society</i> , 2000, 122, 3242-3243.	6.6	321
4	Magnesium incorporation into hydroxyapatite. <i>Biomaterials</i> , 2011, 32, 1826-1837.	5.7	296
5	High-resolution chemical shift and chemical shift anisotropy correlation in solids using slow magic angle spinning. <i>Journal of the American Chemical Society</i> , 1992, 114, 8307-8309.	6.6	214
6	Room temperature activation of methane over Zn modified H-ZSM-5 zeolites: Insight from solid-state NMR and theoretical calculations. <i>Chemical Science</i> , 2012, 3, 2932.	3.7	157
7	NMR Heteronuclear Correlation between Quadrupolar Nuclei in Solids. <i>Journal of the American Chemical Society</i> , 2005, 127, 11540-11541.	6.6	143
8	Activated carbon from biochar: Influence of its physicochemical properties on the sorption characteristics of phenanthrene. <i>Bioresource Technology</i> , 2013, 149, 383-389.	4.8	138
9	Proton-detected <sup>14</sup> N MAS NMR using homonuclear decoupled rotary resonance. <i>Chemical Physics Letters</i> , 2007, 435, 163-169.	1.2	135
10	Measuring Amide Nitrogen Quadrupolar Coupling by High-Resolution <sup>14</sup> N/ <sup>13</sup> C NMR Correlation under Magic-Angle Spinning. <i>Journal of the American Chemical Society</i> , 2006, 128, 6040-6041.	6.6	133
11	Ultrahigh-field <sup>67</sup> Zn NMR reveals short-range disorder in zeolitic imidazolate framework glasses. <i>Science</i> , 2020, 367, 1473-1476.	6.0	132
12	<sup>13</sup> C/ <sup>14</sup> N heteronuclear multiple-quantum correlation with rotary resonance and REDOR dipolar recoupling. <i>Journal of Magnetic Resonance</i> , 2007, 184, 39-43.	1.2	127
13	NMR spectroscopy up to 35.2 T using a series-connected hybrid magnet. <i>Journal of Magnetic Resonance</i> , 2017, 284, 125-136.	1.2	122
14	Isotropic High Field NMR Spectra of Li-Ion Battery Materials with Anisotropy >1 MHz. <i>Journal of the American Chemical Society</i> , 2012, 134, 1898-1901.	6.6	117
15	Seeking Higher Resolution and Sensitivity for NMR of Quadrupolar Nuclei at Ultrahigh Magnetic Fields. <i>Journal of the American Chemical Society</i> , 2002, 124, 5634-5635.	6.6	108
16	Identification of Cation Clustering in Mg-Al Layered Double Hydroxides Using Multinuclear Solid State Nuclear Magnetic Resonance Spectroscopy. <i>Chemistry of Materials</i> , 2012, 24, 2449-2461.	3.2	103
17	Enhancing MQMAS sensitivity using signals from multiple coherence transfer pathways. <i>Journal of Magnetic Resonance</i> , 2004, 168, 346-351.	1.2	100
18	Measuring multiple carbon-nitrogen distances in natural abundant solids using R-RESPDOR NMR. <i>Chemical Communications</i> , 2006, , 4712-4714.	2.2	91

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19	Spin Dynamics of Polarization Inversion Spin Exchange at the Magic Angle in Multiple Spin Systems. <i>Journal of Magnetic Resonance</i> , 2000, 143, 136-143.	1.2	85
20	Solid-State MAS NMR Studies of Brønsted Acid Sites in Zeolite H-Mordenite. <i>Journal of the American Chemical Society</i> , 2012, 134, 9708-9720.	6.6	85
21	On the practical aspects of recording wide-line QCPMG NMR spectra. <i>Journal of Magnetic Resonance</i> , 2010, 204, 256-265.	1.2	84
22	Frequency- and phase-modulated heteronuclear decoupling in rotating solids. <i>Solid State Nuclear Magnetic Resonance</i> , 1997, 8, 153-159.	1.5	81
23	Satellite transition magic-angle spinning nuclear magnetic resonance spectroscopy of half-integer quadrupolar nuclei. <i>Journal of Chemical Physics</i> , 2001, 114, 10845-10853.	1.2	81
24	Chemical Insights into PbSe <sub>1-x</sub> HgSe: High Power Factor and Improved Thermoelectric Performance by Alloying with Discordant Atoms. <i>Journal of the American Chemical Society</i> , 2018, 140, 18115-18123.	6.6	80
25	Distribution of Aluminum Species in Zeolite Catalysts: <sup>27</sup> Al NMR of Framework, Partially-Coordinated Framework, and Non-Framework Moieties. <i>Journal of the American Chemical Society</i> , 2021, 143, 6669-6680.	6.6	79
26	Structure and Catalytic Characterization of a Second Framework Al(IV) Site in Zeolite Catalysts Revealed by NMR at 35.2 T. <i>Journal of the American Chemical Society</i> , 2020, 142, 7514-7523.	6.6	78
27	Structural Evolution of Polymer-Derived Amorphous SiBCN Ceramics at High Temperature. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24993-25000.	1.5	77
28	Dynamic allostery governs cyclophilin HIV capsid interplay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14617-14622.	3.3	76
29	NMR chemical shift anisotropy measurements by RF driven rotary resonance. <i>Chemical Physics Letters</i> , 1996, 254, 349-357.	1.2	73
30	Identification of different oxygen species in oxide nanostructures with <sup>17</sup> O solid-state NMR spectroscopy. <i>Science Advances</i> , 2015, 1, e1400133.	4.7	72
31	Double-quantum filtered STMAS. <i>Journal of Magnetic Resonance</i> , 2003, 164, 369-372.	1.2	71
32	Direct Detection of Potassium Cations Bound to G-Quadruplex Structures by Solid-State <sup>39</sup> K NMR at 19.6 T. <i>Journal of the American Chemical Society</i> , 2003, 125, 7182-7183.	6.6	71
33	Oxidation of Polymer-Derived SiAlCN Ceramics. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3075-3080.	1.9	70
34	Probing the calcium and sodium local environment in bones and teeth using multinuclear solid state NMR and X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1081-1091.	1.3	70
35	Structural Characterization of MAO and Related Aluminum Complexes. 1. Solid-State <sup>27</sup> Al NMR with Comparison to EFG Tensors from ab Initio Molecular Orbital Calculations. <i>Journal of the American Chemical Society</i> , 2001, 123, 12009-12017.	6.6	69
36	<sup>93</sup> Nb NMR chemical shift scale for niobia systems. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 28, 204-224.	1.5	69

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37	Natural-Abundance <sup>43</sup> Ca Solid-State NMR Spectroscopy of Bone. <i>Journal of the American Chemical Society</i> , 2010, 132, 11504-11509.	6.6	67
38	Quantitative study on structural evolutions and associated energetics in polysilazane-derived amorphous silicon carbonitride ceramics. <i>Acta Materialia</i> , 2014, 72, 22-31.	3.8	62
39	Exploring Applications of Covalent Organic Frameworks: Homogeneous Reticulation of Radicals for Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2018, 140, 6969-6977.	6.6	62
40	Magic Angle Spinning NMR Reveals Sequence-Dependent Structural Plasticity, Dynamics, and the Spacer Peptide 1 Conformation in HIV-1 Capsid Protein Assemblies. <i>Journal of the American Chemical Society</i> , 2013, 135, 17793-17803.	6.6	60
41	Proton <sup>14</sup> N overtone two-dimensional correlation NMR spectroscopy of solid-sample at very fast magic angle sample spinning. <i>Journal of Magnetic Resonance</i> , 2013, 230, 160-164.	1.2	57
42	Ion Solvation by Channel Carbonyls Characterized by <sup>17</sup> O Solid-State NMR at 21 T. <i>Journal of the American Chemical Society</i> , 2005, 127, 11922-11923.	6.6	56
43	Solid-State <sup>17</sup> O NMR of Pharmaceutical Compounds: Salicylic Acid and Aspirin. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9643-9654.	1.2	56
44	A new mechanism for metal-catalyzed thiophene hydrogenolysis: proton-induced carbon-sulfur cleavage of coordinated thiophene in solution and in the solid state. <i>Journal of the American Chemical Society</i> , 1993, 115, 4943-4944.	6.6	55
45	<sup>95</sup> Mo Magic Angle Spinning NMR at High Field: Improved Measurements and Structural Analysis of the Quadrupole Interaction in Monomolybdates and Isopolymolybdates. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14033-14042.	1.2	54
46	Ion-Binding Study by <sup>17</sup> O Solid-State NMR Spectroscopy in the Model Peptide Gly-Gly-Gly at 19.6 T. <i>Journal of the American Chemical Society</i> , 2006, 128, 9849-9855.	6.6	53
47	Bicelle-Enabled Structural Studies on a Membrane-Associated Cytochrome <sub>5</sub> by Solid-State MAS NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7864-7867.	7.2	51
48	<sup>35</sup> Cl solid-state NMR of HCl salts of active pharmaceutical ingredients: structural prediction, spectral fingerprinting and polymorph recognition. <i>CrystEngComm</i> , 2014, 16, 7334-7356.	1.3	51
49	Rotary resonance echo double resonance for measuring heteronuclear dipolar coupling under MAS. <i>Journal of Magnetic Resonance</i> , 2006, 183, 235-241.	1.2	50
50	HIV-1 Capsid Function Is Regulated by Dynamics: Quantitative Atomic-Resolution Insights by Integrating Magic-Angle-Spinning NMR, QM/MM, and MD. <i>Journal of the American Chemical Society</i> , 2016, 138, 14066-14075.	6.6	48
51	Higher Magnetic Fields, Finer MOF Structural Information: <sup>17</sup> O Solid-State NMR at 35.2 T. <i>Journal of the American Chemical Society</i> , 2020, 142, 14877-14889.	6.6	47
52	Optimizing STMAS. <i>Journal of Magnetic Resonance</i> , 2002, 156, 131-137.	1.2	46
53	Self-Assembly in Ultrahigh Vacuum: Growth of Organic Thin Films with a Stable In-Plane Directional Order. <i>Journal of the American Chemical Society</i> , 1998, 120, 8563-8564.	6.6	44
54	<sup>17</sup> O MAS NMR Correlation Spectroscopy at High Magnetic Fields. <i>Journal of the American Chemical Society</i> , 2017, 139, 17953-17963.	6.6	44

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55	Solid-state multinuclear magnetic resonance investigation of Pyrex <sup>®</sup> . <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2834-2840.	1.5	43
56	Q-shear transformation for MQMAS and STMAS NMR spectra. <i>Journal of Magnetic Resonance</i> , 2009, 201, 81-86.	1.2	43
57	Defects in Doped LaGaO <sub>3</sub> Anionic Conductors: Linking NMR Spectral Features, Local Environments, and Defect Thermodynamics. <i>Journal of the American Chemical Society</i> , 2011, 133, 17662-17672.	6.6	43
58	Solid-State <sup>25</sup> Mg NMR Spectroscopic and Computational Studies of Organic Compounds. Square-Pyramidal Magnesium(II) Ions in Aqua(magnesium) Phthalocyanine and Chlorophyll a. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10084-10090.	1.1	42
59	Mapping the oxygen structure of <sup>3</sup> -Al <sub>2</sub> O <sub>3</sub> by high-field solid-state NMR spectroscopy. <i>Nature Communications</i> , 2020, 11, 3620.	5.8	42
60	Practical choice of <sup>1</sup> H- <sup>1</sup> H decoupling schemes in through-bond <sup>1</sup> H- <sup>X</sup> HMQC experiments at ultra-fast MAS. <i>Journal of Magnetic Resonance</i> , 2012, 214, 151-158.	1.2	41
61	Lithiation and Delithiation Dynamics of Different Li Sites in Li-Rich Battery Cathodes Studied by <i>Operando</i> Nuclear Magnetic Resonance. <i>Chemistry of Materials</i> , 2017, 29, 8282-8291.	3.2	41
62	Transthyretin Aggregation Pathway toward the Formation of Distinct Cytotoxic Oligomers. <i>Scientific Reports</i> , 2019, 9, 33.	1.6	41
63	Structural and Topological Control on Physical Properties of Arsenic Selenide Glasses. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2284-2293.	1.2	40
64	Effects of fluorine on the structure of fluorohydroxyapatite: a study by XRD, solid-state NMR and Raman spectroscopy. <i>Journal of Materials Chemistry B</i> , 2015, 3, 34-38.	2.9	40
65	Analysis of a Solid-State Conformational Rearrangement Using <sup>15</sup> N NMR and X-ray Crystallography. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3505-3513.	1.1	39
66	MATPASS/CPMG: A sensitivity enhanced magic-angle spinning sideband separation experiment for disordered solids. <i>Journal of Magnetic Resonance</i> , 2012, 221, 103-109.	1.2	39
67	Structure Determination of Boron-Based Oxidative Dehydrogenation Heterogeneous Catalysts With Ultrahigh Field <sup>11</sup> B Solid-State NMR Spectroscopy. <i>ACS Catalysis</i> , 2020, 10, 13852-13866.	5.5	39
68	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10709-10715.	7.2	39
69	Probing the Transmembrane Structure and Dynamics of Microsomal NADPH-cytochrome P450 oxidoreductase by Solid-State NMR. <i>Biophysical Journal</i> , 2014, 106, 2126-2133.	0.2	38
70	Structural Changes Associated with Transthyretin Misfolding and Amyloid Formation Revealed by Solution and Solid-State NMR. <i>Biochemistry</i> , 2016, 55, 1941-1944.	1.2	38
71	Iodide-conducting polymer electrolytes based on poly-ethylene glycol and MgI <sub>2</sub> : Synthesis and structural characterization. <i>Electrochimica Acta</i> , 2011, 57, 112-122.	2.6	37
72	Observation of a Continuous Random Network Structure in GeSe <sub>100-x</sub> Glasses: Results from High-Resolution <sup>77</sup> Se MATPASS/CPMG NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 949-954.	1.2	37

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73	Intricate Short-Range Ordering and Strongly Anisotropic Transport Properties of $\text{Li}_{1-x}\text{Sn}_{2+x}\text{As}_2$ . <i>Journal of the American Chemical Society</i> , 2015, 137, 3622-3630.	6.6	37
74	A Solid-State NMR and Computational Study of Sodium and Potassium Tetraphenylborates: $^{23}\text{Na}$ and $^{39}\text{K}$ NMR Signatures for Systems Containing Cation- $^-\text{B}$ Interactions. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10551-10559.	1.1	35
75	High-field NMR using resistive and hybrid magnets. <i>Journal of Magnetic Resonance</i> , 2008, 191, 135-140.	1.2	35
76	Enhancing MQMAS of low- $\hat{I}^3$ nuclei by using a high B1 field balanced probe circuit. <i>Journal of Magnetic Resonance</i> , 2009, 200, 2-5.	1.2	35
77	Probing the local structures and protonic conduction pathways in scandium substituted $\text{BaZrO}_3$ by multinuclear solid-state NMR spectroscopy. <i>Journal of Materials Chemistry</i> , 2010, 20, 6322.	6.7	35
78	Oblique Incidence Organic Molecular Beam Deposition and Nonlinear Optical Properties of Organic Thin Films with a Stable In-Plane Directional Order. <i>Advanced Materials</i> , 1999, 11, 745-749.	11.1	34
79	Tellurium Speciation, Connectivity, and Chemical Order in $\text{As}_x\text{Te}_{100-x}$ Glasses: Results from Two-Dimensional $^{125}\text{Te}$ NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2081-2088.	1.2	34
80	<i>In Situ</i> NMR Tracks Real-Time Li Ion Movement in Hybrid Supercapacitor "Battery Device. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6314-6323.	1.5	34
81	Solid-State $^{17}\text{O}$ NMR Reveals Hydrogen Bonding Energetics: Not All Low-Barrier Hydrogen Bonds Are Strong. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6166-6170.	7.2	33
82	Structure of Amorphous Selenium by 2D $^{77}\text{Se}$ NMR Spectroscopy: An End to the Dilemma of Chain versus Ring. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9777-9781.	7.2	33
83	Third-order effect in solid-state NMR of quadrupolar nuclei. <i>Chemical Physics Letters</i> , 2003, 367, 163-169.	1.2	32
84	Functional stability of water wire-carbonyl interactions in an ion channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11908-11915.	3.3	32
85	Comparison of high-resolution solid-state NMR MQMAS and STMAS methods for half-integer quadrupolar nuclei. <i>Solid State Nuclear Magnetic Resonance</i> , 2007, 31, 1-9.	1.5	31
86	An Improved 2D Magic-Angle-Turning Pulse Sequence for the Measurement of Chemical-Shift Anisotropy. <i>Journal of Magnetic Resonance Series A</i> , 1996, 123, 140-143.	1.6	30
87	A tunable homonuclear dipolar decoupling scheme for high-resolution proton NMR of solids from slow to fast magic-angle spinning. <i>Chemical Physics Letters</i> , 2011, 503, 167-170.	1.2	30
88	Combined Ab Initio Computational and Solid-State $^{17}\text{O}$ MAS NMR Studies of Crystalline $\text{P}_2\text{O}_5$ . <i>Journal of Physical Chemistry B</i> , 2003, 107, 4894-4903.	1.2	29
89	A Multifaceted Study of Methane Adsorption in Metal-Organic Frameworks by Using Three Complementary Techniques. <i>Chemistry - A European Journal</i> , 2018, 24, 7866-7881.	1.7	29
90	Structure of $\text{TeO}_2$ glass: Results from 2D $^{125}\text{Te}$ NMR spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2019, 513, 183-190.	1.5	29

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91	New Pillared Layered Gallium Phosphonates in the Gallium/1,2-Ethylenediphosphonic Acid System. <i>Inorganic Chemistry</i> , 2001, 40, 6694-6698.	1.9	28
92	17O MQMAS NMR studies of zeolite HY. <i>Microporous and Mesoporous Materials</i> , 2008, 109, 156-162.	2.2	28
93	Measuring nitrogen quadrupolar coupling with <sup>13</sup> C detected wide-line <sup>14</sup> N NMR under magic-angle spinning. <i>Chemical Communications</i> , 2008, , 868-870.	2.2	28
94	Cation substitution in $\beta$ -tricalcium phosphate investigated using multi-nuclear, solid-state NMR. <i>Journal of Solid State Chemistry</i> , 2014, 212, 227-236.	1.4	28
95	Efficient and sideband-free <sup>1</sup> H-detected <sup>14</sup> N magic-angle spinning NMR. <i>Journal of Chemical Physics</i> , 2019, 151, 154202.	1.2	28
96	Fast Acquisition of Proton-Detected HETCOR Solid-State NMR Spectra of Quadrupolar Nuclei and Rapid Measurement of NH Bond Lengths by Frequency Selective HMQC and RESPDOR Pulse Sequences. <i>Chemistry - A European Journal</i> , 2020, 26, 7881-7888.	1.7	28
97	Novel Gallium Phosphatooxalate with Pendant Oxalate Ligands: Preparation, Crystal Structure, NMR Spectroscopy, and Thermal Stability. <i>Chemistry of Materials</i> , 2002, 14, 4096-4103.	3.2	26
98	Satellite transition rotational resonance of homonuclear quadrupolar spins: magic-angle effect on spin-echo decay and inversion recovery. <i>Chemical Physics Letters</i> , 2003, 376, 75-82.	1.2	26
99	High-Resolution NMR of $S = 3/2$ Quadrupole Nuclei by Detection of Double-Quantum Satellite Transitions via Protons. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4734-4740.	2.1	26
100	Shift-independent nuclear spin diffusion by slow magic-angle sample spinning for the exploration of solids. <i>Chemical Physics Letters</i> , 1996, 253, 13-19.	1.2	25
101	Solid-state NMR indirect detection of nuclei experiencing large anisotropic interactions using spinning sideband-selective pulses. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 72, 104-117.	1.5	25
102	Solid-State NMR Studies Reveal Native-like $\beta$ -Sheet Structures in Transthyretin Amyloid. <i>Biochemistry</i> , 2016, 55, 5272-5278.	1.2	25
103	High-Resolution <sup>17</sup> O NMR Spectroscopy of Structural Water. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3061-3067.	1.2	25
104	Deuterium polarization transfer in rotating solids and its application in structural investigation. <i>Molecular Physics</i> , 1998, 95, 1143-1152.	0.8	24
105	Applicability of natural abundance <sup>33</sup> S solid-state NMR to cement chemistry. <i>Cement and Concrete Research</i> , 2006, 36, 1781-1783.	4.6	24
106	Quantitative covariance NMR by regularization. <i>Journal of Biomolecular NMR</i> , 2007, 38, 73-77.	1.6	24
107	Synthesis and characterizations of highly conductive and stable electrolyte Li <sub>10</sub> P <sub>3</sub> S <sub>12</sub> I. <i>Energy Storage Materials</i> , 2019, 22, 397-401.	9.5	24
108	Unveiling the Structure and Reactivity of Fatty-Acid Based (Nano)materials Thanks to Efficient and Scalable <sup>17</sup> O and <sup>18</sup> O-Isotopic Labeling Schemes. <i>Journal of the American Chemical Society</i> , 2020, 142, 21068-21081.	6.6	24

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109	Direct <sup>17</sup> O Isotopic Labeling of Oxides Using Mechanochemistry. <i>Inorganic Chemistry</i> , 2020, 59, 13050-13066.	1.9	24
110	Single-scan 2D NMR spectroscopy on a 25 T bitter magnet. <i>Chemical Physics Letters</i> , 2007, 442, 478-482.	1.2	23
111	On the origin of high ionic conductivity in Na-doped SrSiO <sub>3</sub> . <i>Chemical Science</i> , 2016, 7, 3667-3675.	3.7	23
112	Detailed analysis of the TIMES and TIMES0 high-resolution MAS methods for high-resolution proton NMR. <i>Journal of Magnetic Resonance</i> , 2012, 223, 219-227.	1.2	22
113	Pushing the limits of sensitivity and resolution for natural abundance <sup>43</sup> Ca NMR using ultra-high magnetic field (35.2 T). <i>Chemical Communications</i> , 2018, 54, 9591-9594.	2.2	22
114	Nature of Five-Coordinated Al in $\hat{\Gamma}^3\text{-Al}_2\text{O}_3$ Revealed by Ultra-High-Field Solid-State NMR. <i>ACS Central Science</i> , 2022, 8, 795-803.	5.3	22
115	Structural Characterization of Al <sub>10</sub> O <sub>6</sub> iBu <sub>16</sub> ( $\hat{\Gamma}^{1/4}\text{-H}$ ) <sub>2</sub> , a High Aluminum Content Cluster: A Further Studies of Methylaluminumoxane (MAO) and Related Aluminum Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 44-47.	1.9	21
116	3D $^1\text{H}\hat{\Gamma}^{13}\text{C}\hat{\Gamma}^{14}\text{N}$ correlation solid-state NMR spectrum. <i>Journal of Magnetic Resonance</i> , 2008, 193, 321-325.	1.2	21
117	Size-Induced Structural Disorder Enables Ultrahard Oxides. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13898-13905.	1.5	21
118	A magic-angle turning NMR experiment for separating spinning sidebands of half-integer quadrupolar nuclei. <i>Chemical Physics Letters</i> , 2010, 496, 162-166.	1.2	20
119	High-Resolution <sup>39</sup> K NMR Spectroscopy of Bio-organic Solids. <i>Journal of the American Chemical Society</i> , 2011, 133, 19570-19573.	6.6	20
120	An efficient amplification pulse sequence for measuring chemical shift anisotropy under fast magic-angle spinning. <i>Journal of Magnetic Resonance</i> , 2011, 213, 196-199.	1.2	20
121	Pathogenic Mutations Induce Partial Structural Changes in the Native $\hat{\Gamma}^2$ -Sheet Structure of Transthyretin and Accelerate Aggregation. <i>Biochemistry</i> , 2017, 56, 4808-4818.	1.2	20
122	High-field QCPMG NMR of large quadrupolar patterns using resistive magnets. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 159-163.	1.5	19
123	On the magic-angle turning and phase-adjusted spinning sidebands experiments. <i>Journal of Magnetic Resonance</i> , 2010, 204, 150-154.	1.2	19
124	Crystal structure and proton conductivity of BaSn <sub>0.6</sub> Sc <sub>0.4</sub> O <sub>3</sub> $\hat{\Gamma}^{\hat{\Gamma}}$ : insights from neutron powder diffraction and solid-state NMR spectroscopy. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5088-5101.	5.2	18
125	A soft-chemistry approach to the synthesis of amorphous calcium ortho/pyrophosphate biomaterials of tunable composition. <i>Acta Biomaterialia</i> , 2020, 103, 333-345.	4.1	18
126	Recent Advances in Solid-State Nuclear Magnetic Resonance Techniques for Materials Research. <i>Annual Review of Materials Research</i> , 2020, 50, 493-520.	4.3	18



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127	Detection of "free" oxide ions in low-silica Ca/Mg silicate glasses: Results from $^{17}\text{O}$ $\hat{+}$ $^{29}\text{Si}$ HETCOR NMR. <i>Journal of Non-Crystalline Solids</i> , 2016, 445-446, 1-6.	1.5	17
128	Structure of BaO-TeO <sub>2</sub> glasses: A two-dimensional $^{125}\text{Te}$ NMR spectroscopic study. <i>Journal of Non-Crystalline Solids</i> , 2018, 481, 282-288.	1.5	17
129	Probing Interactions of $^{27}\text{Al}$ Alumina with Water via Multinuclear Solid-State NMR Spectroscopy. <i>ChemCatChem</i> , 2020, 12, 1569-1574.	1.8	17
130	Identification of CO <sub>2</sub> adsorption sites on MgO nanosheets by solid-state nuclear magnetic resonance spectroscopy. <i>Nature Communications</i> , 2022, 13, 707.	5.8	17
131	Stacking-Enhanced Oxygen Redox in $\text{Li}_{2}\text{MnO}_{3}$ . <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	17
132	Low resolution NMR magnets in the 23 to 35 T range at the NHMFL. <i>IEEE Transactions on Applied Superconductivity</i> , 2002, 12, 447-451.	1.1	16
133	Gadolinium based endohedral metallofullerene Gd@C <sub>79</sub> N as a relaxation boosting agent for dissolution DNP at high fields. <i>Chemical Communications</i> , 2018, 54, 2425-2428.	2.2	16
134	Using the heteronuclear Bloch-Siegert shift of protons for B1 calibration of insensitive nuclei not present in the sample. <i>Journal of Magnetic Resonance</i> , 2020, 310, 106636.	1.2	16
135	Rotary resonance in multiple-quantum magic-angle spinning. <i>Chemical Physics Letters</i> , 2002, 352, 252-261.	1.2	14
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