

# Malcolm H Levitt

## List of Publications by Year in descending order

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274  
papers

18,110  
citations

9756

73  
h-index

17055

122  
g-index

292  
all docs

292  
docs citations

292  
times ranked

5585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Composite pulses. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1986, 18, 61-122.	3.9	663
2	Rotational resonance in solid state NMR. <i>Chemical Physics Letters</i> , 1988, 146, 71-76.	1.2	579
3	Broadband dipolar recoupling in the nuclear magnetic resonance of rotating solids: A compensated C7 pulse sequence. <i>Journal of Chemical Physics</i> , 1998, 108, 2686-2694.	1.2	510
4	Frequency-switched pulse sequences: Homonuclear decoupling and dilute spin NMR in solids. <i>Chemical Physics Letters</i> , 1989, 155, 341-346.	1.2	453
5	Double-quantum homonuclear rotary resonance: Efficient dipolar recovery in magic-angle spinning nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1994, 101, 1805-1812.	1.2	422
6	Efficient dipolar recoupling in the NMR of rotating solids. A sevenfold symmetric radiofrequency pulse sequence. <i>Chemical Physics Letters</i> , 1995, 242, 304-309.	1.2	410
7	Theory and simulations of homonuclear spin pair systems in rotating solids. <i>Journal of Chemical Physics</i> , 1990, 92, 6347-6364.	1.2	405
8	Rotary resonance recoupling of dipolar interactions in solid-state nuclear magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , 1988, 89, 692-695.	1.2	374
9	Beyond the T1 Limit: Singlet Nuclear Spin States in Low Magnetic Fields. <i>Physical Review Letters</i> , 2004, 92, 153003.	2.9	322
10	Symmetry principles for the design of radiofrequency pulse sequences in the nuclear magnetic resonance of rotating solids. <i>Chemical Physics Letters</i> , 2000, 321, 205-215.	1.2	319
11	Determination of membrane protein structure by rotational resonance NMR: bacteriorhodopsin. <i>Science</i> , 1991, 251, 783-786.	6.0	300
12	Long-Lived Nuclear Spin States in High-Field Solution NMR. <i>Journal of the American Chemical Society</i> , 2004, 126, 6228-6229.	6.6	288
13	Two-Dimensional Sideband Separation in Magic-Angle-Spinning NMR. <i>Journal of Magnetic Resonance Series A</i> , 1995, 115, 7-19.	1.6	277
14	Spin dynamics and thermodynamics in solid-state NMR cross polarization. <i>Journal of Chemical Physics</i> , 1986, 84, 4243-4255.	1.2	237
15	Symmetry principles in the nuclear magnetic resonance of spinning solids: Heteronuclear recoupling by generalized Hartmann-Hahn sequences. <i>Journal of Chemical Physics</i> , 2001, 115, 357-384.	1.2	206
16	NMR population inversion using a composite pulse. <i>Journal of Magnetic Resonance</i> , 1979, 33, 473-476.	0.5	203
17	Synchronous helical pulse sequences in magic-angle spinning nuclear magnetic resonance: Double quantum recoupling of multiple-spin systems. <i>Journal of Chemical Physics</i> , 2000, 112, 8539-8554.	1.2	199
18	Singlet Nuclear Magnetic Resonance. <i>Annual Review of Physical Chemistry</i> , 2012, 63, 89-105.	4.8	195

#	ARTICLE	IF	CITATIONS
19	Direct determination of a molecular torsional angle by solid-state NMR. <i>Chemical Physics Letters</i> , 1996, 257, 314-320.	1.2	194
20	Theory of long-lived nuclear spin states in solution nuclear magnetic resonance. I. Singlet states in low magnetic field. <i>Journal of Chemical Physics</i> , 2005, 122, 214505.	1.2	182
21	Pulse sequence symmetries in the nuclear magnetic resonance of spinning solids: Application to heteronuclear decoupling. <i>Journal of Chemical Physics</i> , 1999, 111, 1511-1519.	1.2	170
22	The dipolar endofullerene HF@C60. <i>Nature Chemistry</i> , 2016, 8, 953-957.	6.6	167
23	Broadband heteronuclear decoupling. <i>Journal of Magnetic Resonance</i> , 1982, 47, 328-330.	0.5	164
24	A Solid-State NMR Method for Solution of Zeolite Crystal Structures. <i>Journal of the American Chemical Society</i> , 2005, 127, 10365-10370.	6.6	161
25	Direct Determination of a Molecular Torsional Angle in the Membrane Protein Rhodopsin by Solid-State NMR. <i>Journal of the American Chemical Society</i> , 1997, 119, 6853-6857.	6.6	160
26	Storage of nuclear magnetization as long-lived singlet order in low magnetic field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17135-17139.	3.3	159
27	The Signs of Frequencies and Phases in NMR. <i>Journal of Magnetic Resonance</i> , 1997, 126, 164-182.	1.2	149
28	Rotary Resonance Recoupling in Heteronuclear Spin Pair Systems. <i>Israel Journal of Chemistry</i> , 1988, 28, 271-282.	1.0	144
29	Broadband Decoupling in High-Resolution Nuclear Magnetic Resonance Spectroscopy. <i>Advances in Magnetic and Optical Resonance</i> , 1983, , 47-110.	1.7	140
30	Recoupling of heteronuclear dipolar interactions in solid-state NMR using symmetry-based pulse sequences. <i>Chemical Physics Letters</i> , 2001, 342, 353-361.	1.2	140
31	Demagnetization field effects in two-dimensional solution NMR. <i>Concepts in Magnetic Resonance</i> , 1996, 8, 77-103.	1.3	136
32	Singlet nuclear magnetic resonance of nearly-equivalent spins. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5556.	1.3	135
33	Quantum rotation of <i>ortho</i> and <i>para</i> -water encapsulated in a fullerene cage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12894-12898.	3.3	135
34	Compensation for pulse imperfections in NMR spin-echo experiments. <i>Journal of Magnetic Resonance</i> , 1981, 43, 65-80.	0.5	126
35	The Long-Lived Nuclear Singlet State of <sup>15</sup> N-Nitrous Oxide in Solution. <i>Journal of the American Chemical Society</i> , 2008, 130, 12582-12583.	6.6	124
36	Computation of Orientational Averages in Solid-State NMR by Gaussian Spherical Quadrature. <i>Journal of Magnetic Resonance</i> , 1998, 132, 220-239.	1.2	122

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37	Symmetry in the design of NMR multiple-pulse sequences. <i>Journal of Chemical Physics</i> , 2008, 128, 052205.	1.2	119
38	Cogwheel Phase Cycling. <i>Journal of Magnetic Resonance</i> , 2002, 155, 300-306.	1.2	117
39	A Nuclear Singlet Lifetime of More than One Hour in Room-Temperature Solution. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3740-3743.	7.2	116
40	Composite pulse excitation in three-level systems. <i>Journal of Chemical Physics</i> , 1984, 80, 3064-3068.	1.2	115
41	Multiphoton NMR spectroscopy on a spin system with $I=1/2$ . <i>Journal of Chemical Physics</i> , 1983, 78, 5293-5310.	1.2	114
42	High-resolution $^1\text{H}$ NMR in solids with frequency-switched multiple-pulse sequences. <i>Solid State Nuclear Magnetic Resonance</i> , 1993, 2, 151-163.	1.5	114
43	Direct Determination of a Peptide Torsional Angle $\gamma$ by Double-Quantum Solid-State NMR. <i>Journal of the American Chemical Society</i> , 1997, 119, 12006-12007.	6.6	110
44	$^{13}\text{C}$ and $^{15}\text{N}$ Chemical Shift Anisotropy of Ampicillin and Penicillin-V Studied by 2D-PASS and CP/MAS NMR. <i>Journal of Magnetic Resonance</i> , 1998, 135, 144-155.	1.2	106
45	Heteronuclear polarization transfer by symmetry-based recoupling sequences in solid-state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2004, 26, 57-64.	1.5	106
46	Symmetry-Based $^{29}\text{Si}$ Dipolar Recoupling Magic Angle Spinning NMR Spectroscopy: A New Method for Investigating Three-Dimensional Structures of Zeolite Frameworks. <i>Journal of the American Chemical Society</i> , 2005, 127, 542-543.	6.6	106
47	Steady state in magnetic resonance pulse experiments. <i>Physical Review Letters</i> , 1992, 69, 3124-3127.	2.9	103
48	Estimation of Carbon-Carbon Bond Lengths and Medium-Range Internuclear Distances by Solid-State Nuclear Magnetic Resonance. <i>Journal of the American Chemical Society</i> , 2001, 123, 10628-10638.	6.6	101
49	High-resolution $^1\text{H}$ NMR in the solid state using symmetry-based pulse sequences. <i>Chemical Physics Letters</i> , 2001, 346, 142-148.	1.2	101
50	Symmetrical composite pulse sequences for NMR population inversion. I. Compensation of radiofrequency field inhomogeneity. <i>Journal of Magnetic Resonance</i> , 1982, 48, 234-264.	0.5	99
51	Theory of long-lived nuclear spin states in solution nuclear magnetic resonance. II. Singlet spin locking. <i>Journal of Chemical Physics</i> , 2009, 130, 214501.	1.2	97
52	Measurement of internuclear distances in polycrystalline solids. Rotationally enhanced transfer of nuclear spin magnetization. <i>Journal of the American Chemical Society</i> , 1989, 111, 4502-4503.	6.6	96
53	Direct Enhancement of Nuclear Singlet Order by Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2012, 134, 7668-7671.	6.6	94
54	Recycling and Imaging of Nuclear Singlet Hyperpolarization. <i>Journal of the American Chemical Society</i> , 2013, 135, 5084-5088.	6.6	94

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55	Long-Lived Nuclear Spin States in Methyl Groups and Quantum-Rotor-Induced Polarization. <i>Journal of the American Chemical Society</i> , 2013, 135, 18746-18749.	6.6	93
56	SpinDynamica: Symbolic and numerical magnetic resonance in a Mathematica environment. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 374-414.	1.1	91
57	Rotor in a cage: Infrared spectroscopy of an endohedral hydrogen-fullerene complex. <i>Journal of Chemical Physics</i> , 2009, 130, 081103.	1.2	90
58	Improvement of pulse performance in N.M.R. coherence transfer experiments. <i>Molecular Physics</i> , 1983, 50, 1109-1124.	0.8	89
59	Broad band dipolar recoupling in the nuclear magnetic resonance of rotating solids. <i>Journal of Chemical Physics</i> , 1993, 98, 6742-6748.	1.2	87
60	Quenching spin diffusion in selective measurements of transient overhauser effects in nuclear magnetic resonance. Applications to oligonucleotides. <i>Journal of the American Chemical Society</i> , 1994, 116, 362-368.	6.6	84
61	Efficient Simulation of Periodic Problems in NMR. Application to Decoupling and Rotational Resonance. <i>Journal of Magnetic Resonance Series A</i> , 1996, 120, 56-71.	1.6	84
62	Principles of Spin-Echo Modulation by J-Couplings in Magic-Angle-Spinning Solid-State NMR. <i>ChemPhysChem</i> , 2004, 5, 815-833.	1.0	84
63	Radiofrequency pulse sequences which compensate their own imperfections. <i>Journal of Magnetic Resonance</i> , 1980, 38, 453-479.	0.5	83
64	An optimised scalable synthesis of $H_2O@C_{60}$ and a new synthesis of $H_2@C_{60}$ . <i>Chemical Communications</i> , 2014, 50, 13037-13040.	2.2	83
65	Composite pulse decoupling. <i>Journal of Magnetic Resonance</i> , 1981, 43, 502-507.	0.5	82
66	Through-space contributions to two-dimensional double-quantum J correlation NMR spectra of magic-angle-spinning solids. <i>Journal of Chemical Physics</i> , 2005, 122, 194313.	1.2	82
67	BII Nucleotides in the B and C Forms of Natural-sequence Polymeric DNA: A New Model for the C Form of DNA. <i>Journal of Molecular Biology</i> , 2000, 304, 541-561.	2.0	81
68	First Synthesis and Characterization of $CH_4@C_{60}$ . <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5038-5043.	7.2	81
69	Determination of internuclear distances and the orientation of functional groups by solid-state NMR: Rotational resonance study of the conformation of retinal in bacteriorhodopsin. <i>Biochemistry</i> , 1994, 33, 6129-6136.	1.2	80
70	Heteronuclear cross polarization in liquid-state nuclear magnetic resonance: Mismatch compensation and relaxation behavior. <i>Journal of Chemical Physics</i> , 1991, 94, 30-38.	1.2	79
71	Measurement of NH Bond Lengths by Fast Magic-Angle Spinning Solid-State NMR Spectroscopy: A New Method for the Quantification of Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2001, 123, 11097-11098.	6.6	79
72	Homonuclear Zero-Quantum Recoupling in Fast Magic-Angle Spinning Nuclear Magnetic Resonance. <i>Journal of Magnetic Resonance</i> , 2002, 156, 79-96.	1.2	77

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73	Composite pulses constructed by a recursive expansion procedure. Journal of Magnetic Resonance, 1983, 55, 247-254.	0.5	74
74	A robust pulse sequence for the determination of small homonuclear dipolar couplings in magic-angle spinning NMR. Chemical Physics Letters, 2004, 390, 1-7.	1.2	72
75	Long-lived nuclear spin states in the solution NMR of four-spin systems. Journal of Magnetic Resonance, 2006, 182, 353-357.	1.2	72
76	Solid-state NMR of endohedral hydrogen@fullerene complexes. Physical Chemistry Chemical Physics, 2007, 9, 4879.	1.3	69
77	Multiple-quantum excitation and spin topology filtration in high-resolution NMR. Journal of Chemical Physics, 1985, 83, 3297-3310.	1.2	68
78	Enhanced double-quantum nuclear magnetic resonance in spinning solids at rotational resonance. Journal of Chemical Physics, 1992, 96, 5668-5677.	1.2	66
79	Determination of a molecular torsional angle in the metarhodopsin-I photointermediate of rhodopsin by double-quantum solid-state NMR. Journal of Biomolecular NMR, 2000, 16, 1-8.	1.6	66
80	Theory and applications of supercycled symmetry-based recoupling sequences in solid-state nuclear magnetic resonance. Journal of Chemical Physics, 2006, 124, 2345-10.	1.2	65
81	Solid-State NMR Spectroscopy of Molecular Hydrogen Trapped Inside an Open-Cage Fullerene. Journal of the American Chemical Society, 2004, 126, 4092-4093.	6.6	64
82	Interaction potential and infrared absorption of endohedral H <sub>2</sub> in C <sub>60</sub> . Journal of Chemical Physics, 2011, 134, 054507.	1.2	63
83	Quantum Translator-Rotator: Inelastic Neutron Scattering of Dihydrogen Molecules Trapped inside Anisotropic Fullerene Cages. Physical Review Letters, 2009, 102, 013001.	2.9	61
84	Long-Lived Nuclear Singlet Order in Near-Equivalent <sup>13</sup> C Spin Pairs. Journal of the American Chemical Society, 2012, 134, 17494-17497.	6.6	61
85	J-Stabilization of singlet states in the solution NMR of multiple-spin systems. Journal of Magnetic Resonance, 2007, 187, 141-145.	1.2	60
86	Symmetry-breaking in the endofullerene H <sub>2</sub> O@C <sub>60</sub> revealed in the quantum dynamics of ortho and para-water: a neutron scattering investigation. Physical Chemistry Chemical Physics, 2014, 16, 21330-21339.	1.3	59
87	Protein-Induced Bonding Perturbation of the Rhodopsin Chromophore Detected by Double-Quantum Solid-State NMR. Journal of the American Chemical Society, 2004, 126, 3948-3953.	6.6	58
88	Theory and spectroscopy of an incarcerated quantum rotor: The infrared spectroscopy, inelastic neutron scattering and nuclear magnetic resonance of H <sub>2</sub> @C <sub>60</sub> at cryogenic temperature. Coordination Chemistry Reviews, 2011, 255, 938-948.	9.5	58
89	Nuclear spin conversion of water inside fullerene cages detected by low-temperature nuclear magnetic resonance. Journal of Chemical Physics, 2014, 140, 194306.	1.2	58
90	Inelastic neutron scattering of a quantum translator-rotator encapsulated in a closed fullerene cage: Isotope effects and translation-rotation coupling in $H_2O@C_{60}$ Physical Review B, 2010, 82, .	1.1	57

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91	Electrical detection of ortho-para conversion in fullerene-encapsulated water. Nature Communications, 2015, 6, 8112.	5.8	57
92	Symmetrical composite pulse sequences for NMR population inversion. II. Compensation of resonance offset. Journal of Magnetic Resonance, 1982, 50, 95-110.	0.5	54
93	Application of cogwheel phase cycling to sideband manipulation experiments in solid-state NMR. Journal of Magnetic Resonance, 2003, 164, 286-293.	1.2	54
94	Hyperpolarized singlet lifetimes of pyruvate in human blood and in the mouse. NMR in Biomedicine, 2013, 26, 1696-1704.	1.6	54
95	Rapid hyperpolarization and purification of the metabolite fumarate in aqueous solution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	54
96	Supercycles for broadband heteronuclear decoupling. Journal of Magnetic Resonance, 1982, 50, 157-160.	0.5	53
97	Extremely Low-Frequency Spectroscopy in Low-Field Nuclear Magnetic Resonance. Physical Review Letters, 2009, 103, 083002.	2.9	53
98	Spectroscopy of light-molecule endofullerenes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120429.	1.6	53
99	Multiplet-separated heteronuclear two-dimensional NMR spectroscopy. Chemical Physics Letters, 1983, 94, 540-544.	1.2	52
100	Uniform excitation of multiple-quantum coherence: Application to multiple quantum filtering. Journal of Magnetic Resonance, 1983, 55, 104-113.	0.5	51
101	Cryogenic NMR spectroscopy of endohedral hydrogen-fullerene complexes. Journal of Chemical Physics, 2006, 124, 104507.	1.2	51
102	Theory of long-lived nuclear spin states in methyl groups and quantum-rotor induced polarisation. Journal of Chemical Physics, 2015, 142, 044506.	1.2	51
103	Symmetry constraints on spin dynamics: Application to hyperpolarized NMR. Journal of Magnetic Resonance, 2016, 262, 91-99.	1.2	51
104	Long live the singlet state!. Journal of Magnetic Resonance, 2019, 306, 69-74.	1.2	51
105	Structure and Molecular Ordering of a Nematic Liquid Crystal Studied by Natural-Abundance Double-Quantum <sup>13</sup> C NMR. Journal of the American Chemical Society, 1996, 118, 6966-6974.	6.6	50
106	Long-lived nuclear spin states far from magnetic equivalence. Physical Chemistry Chemical Physics, 2015, 17, 5913-5922.	1.3	50
107	Two-dimensional spin-echo nuclear magnetic resonance in rotating solids. Journal of Chemical Physics, 1989, 90, 679-689.	1.2	49
108	Suppression of sidebands in magic-angle spinning nuclear magnetic resonance: General principles and analytical solutions. Journal of Chemical Physics, 1994, 100, 130-140.	1.2	49

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109	Numerical simulation of periodic nuclear magnetic resonance problems: fast calculation of carousel averages. <i>Molecular Physics</i> , 1998, 95, 879-890.	0.8	49
110	Symmetry-based recoupling of $^{17}\text{O}$ - $^1\text{H}$ spin pairs in magic-angle spinning NMR. <i>Journal of Magnetic Resonance</i> , 2006, 179, 38-48.	1.2	49
111	Paramagnetic relaxation of nuclear singlet states. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9128.	1.3	49
112	Investigation of Carbohydrate Conformation in Solution and in Powders by Double-Quantum NMR. <i>Journal of the American Chemical Society</i> , 2000, 122, 1102-1115.	6.6	48
113	Spin-pattern recognition in high-resolution proton NMR spectroscopy. <i>Chemical Physics Letters</i> , 1983, 100, 119-123.	1.2	47
114	Quantum-information processing by nuclear magnetic resonance: Experimental implementation of half-adder and subtractor operations using an oriented spin-7/2 system. <i>Physical Review A</i> , 2002, 66, .	1.0	47
115	Multiplex phase cycling. <i>Journal of Magnetic Resonance</i> , 2003, 160, 52-58.	1.2	47
116	Hyperpolarized fumarate <i>via</i> parahydrogen. <i>Chemical Communications</i> , 2018, 54, 12246-12249.	2.2	47
117	Sideband suppression in magic-angle-spinning NMR by a sequence of $5\pi$ pulses. <i>Solid State Nuclear Magnetic Resonance</i> , 1993, 2, 143-146.	1.5	46
118	Heteronuclear decoupling interference during symmetry-based homonuclear recoupling in solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2005, 177, 307-317.	1.2	46
119	Polarization transfer via field sweeping in parahydrogen-enhanced nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2019, 150, 174202.	1.2	46
120	Scalable dissolution-dynamic nuclear polarization with rapid transfer of a polarized solid. <i>Nature Communications</i> , 2019, 10, 1733.	5.8	46
121	Supercycled homonuclear dipolar decoupling sequences in solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2009, 197, 14-19.	1.2	45
122	Inelastic neutron scattering investigations of the quantum molecular dynamics of a $\text{H}_2$ molecule entrapped inside a fullerene cage. <i>Physical Review B</i> , 2012, 85, .	1.1	45
123	Singlet order conversion and parahydrogen-induced hyperpolarization of $^{13}\text{C}$ nuclei in near-equivalent spin systems. <i>Journal of Magnetic Resonance</i> , 2017, 274, 163-172.	1.2	45
124	Double-Quantum $^{13}\text{C}$ Nuclear Magnetic Resonance of Bathorhodopsin, the First Photointermediate in Mammalian Vision. <i>Journal of the American Chemical Society</i> , 2008, 130, 10490-10491.	6.6	44
125	Infrared spectroscopy of endohedral HD and D2 in C60. <i>Journal of Chemical Physics</i> , 2011, 135, 114511.	1.2	43
126	Spin-Isomer Conversion of Water at Room Temperature and Quantum-Rotor-Induced Nuclear Polarization in the Water-Endofullerene $\text{H}_2\text{O}$ . <i>Physical Review Letters</i> , 2010, 105, 107601.	2.9	43



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127	Spherical tensor analysis of nuclear magnetic resonance signals. <i>Journal of Chemical Physics</i> , 2005, 122, 2445-10.	1.2	42
128	NMR experiments for the sign determination of homonuclear scalar and residual dipolar couplings. <i>Journal of Biomolecular NMR</i> , 2000, 16, 343-346.	1.6	41
129	Residual Dipolar Couplings by Off-Magic-Angle Spinning in Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2007, 129, 10972-10973.	6.6	41
130	Excitation of carbon-13 triple quantum coherence in magic-angle-spinning NMR. <i>Chemical Physics Letters</i> , 1998, 293, 173-179.	1.2	40
131	Modulation-aided signal enhancement in the magic angle spinning NMR of spin-5/2 nuclei. <i>Chemical Physics Letters</i> , 2003, 367, 150-156.	1.2	40
132	Determination of Molecular Torsion Angles Using Nuclear Singlet Relaxation. <i>Journal of the American Chemical Society</i> , 2010, 132, 8225-8227.	6.6	40
133	Magic-Angle Spinning NMR of Cold Samples. <i>Accounts of Chemical Research</i> , 2013, 46, 1914-1922.	7.6	40
134	Accessing Long-Lived Nuclear Spin Order by Isotope-Induced Symmetry Breaking. <i>Journal of the American Chemical Society</i> , 2013, 135, 2120-2123.	6.6	40
135	High-Resolution Nuclear Magnetic Resonance Spectroscopy with Picomole Sensitivity by Hyperpolarization on a Chip. <i>Journal of the American Chemical Society</i> , 2019, 141, 9955-9963.	6.6	39
136	The conformation of an inhibitor bound to the gastric proton pump. <i>FEBS Letters</i> , 1997, 410, 269-274.	1.3	38
137	Anomalous Rotational Resonance Spectra in Magic-Angle Spinning NMR. <i>Journal of Magnetic Resonance</i> , 1999, 140, 379-403.	1.2	38
138	Signal Enhancement in the Triple-Quantum Magic-Angle Spinning NMR of Spins-32 in Solids: The FAM-RIACT-FAM Sequence. <i>Journal of Magnetic Resonance</i> , 2002, 155, 150-155.	1.2	38
139	Accurate Measurements of $^{13}\text{C}$ - $^{13}\text{C}$ Couplings in the Rhodopsin Chromophore by Double-Quantum Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 3878-3879.	6.6	38
140	Composite Z pulses. <i>Journal of Magnetic Resonance</i> , 1981, 44, 409-412.	0.5	37
141	Intermolecular Dipole-Dipole Relaxation. A Molecular Dynamics Simulation. <i>Journal of Magnetic Resonance Series A</i> , 1993, 105, 289-294.	1.6	37
142	Hyperpolarized singlet NMR on a small animal imaging system. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1262-1265.	1.9	37
143	Dynamic $^1\text{H}$ imaging of hyperpolarized $^{13}\text{C}$ lactate in vivo using a reverse INEPT experiment. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 741-747.	1.9	37
144	Signs of Frequencies and Phases in NMR: The Role of Radiofrequency Mixing. <i>Journal of Magnetic Resonance</i> , 2000, 142, 190-194.	1.2	35

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145	Truncated dipolar recoupling in solid-state nuclear magnetic resonance. <i>Chemical Physics Letters</i> , 2006, 432, 572-578.	1.2	35
146	A Hall effect angle detector for solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2008, 190, 135-141.	1.2	34
147	Measurements of the persistent singlet state of N <sub>2</sub> O in blood and other solvents—Potential as a magnetic tracer. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1177-1180.	1.9	34
148	Dynamic Nuclear Polarization of Long-Lived Nuclear Spin States in Methyl Groups. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3549-3555.	2.1	34
149	Estimation of internuclear couplings in the solid-state NMR of multiple-spin systems. Selective spin echoes and off-magic-angle sample spinning. <i>Chemical Physics Letters</i> , 2008, 456, 116-121.	1.2	33
150	Enhancement of the effect of small anisotropies in magic-angle spinning nuclear magnetic resonance. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988, 84, 3691.	1.0	32
151	Time-domain calculation of chemical exchange effects in the NMR spectra of rotating solids. <i>Solid State Nuclear Magnetic Resonance</i> , 1992, 1, 211-215.	1.5	32
152	Quantum rotation and translation of hydrogen molecules encapsulated inside C <sub>60</sub> : temperature dependence of inelastic neutron scattering spectra. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110627.	1.6	32
153	Synthesis and characterisation of an open-cage fullerene encapsulating hydrogen fluoride. <i>Chemical Communications</i> , 2015, 51, 4993-4996.	2.2	32
154	Conformational transitions of the phosphodiester backbone in native DNA: two-dimensional magic-angle-spinning 31P-NMR of DNA fibers. <i>Biophysical Journal</i> , 1997, 73, 1539-1552.	0.2	31
155	A master equation for spin systems far from equilibrium. <i>Journal of Magnetic Resonance</i> , 2020, 310, 106645.	1.2	30
156	Longitudinal rotational resonance echoes in solid state nuclear magnetic resonance: Investigation of zero quantum spin dynamics. <i>Journal of Chemical Physics</i> , 1998, 109, 5493-5507.	1.2	29
157	Analytical theory of <sup>13</sup> C-encoded double-quantum recoupling sequences in solid-state nuclear magnetic resonance. <i>Journal of Magnetic Resonance</i> , 2007, 186, 65-74.	1.2	29
158	Infrared spectroscopy of small-molecule endofullerenes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110631.	1.6	29
159	Sensitivity of two-dimensional spectra. <i>Journal of Magnetic Resonance</i> , 1984, 58, 462-472.	0.5	28
160	NMR solvent peak suppression by nonlinear excitation. <i>Journal of Chemical Physics</i> , 1988, 88, 3481-3496.	1.2	28
161	Why do spinning sidebands have the same phase?. <i>Journal of Magnetic Resonance</i> , 1989, 82, 427-433.	0.5	28
162	Synthesis and Properties of Open Fullerenes Encapsulating Ammonia and Methane. <i>ChemPhysChem</i> , 2018, 19, 266-276.	1.0	28

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