

# 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	Tuning of pH enables carbon-13 hyperpolarization of oxalates by SABRE. <i>Chemical Communications</i> , 2022, 58, 2291-2294.	2.2	4
2	Direct Production of a Hyperpolarized Metabolite on a Microfluidic Chip. <i>Analytical Chemistry</i> , 2022, , .	3.2	7
3	Weak nuclear spin singlet relaxation mechanisms revealed by experiment and computation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7531-7538.	1.3	7
4	Terahertz spectroscopy of the helium endofullerene He@C <sub>60</sub> . <i>Physical Chemistry Chemical Physics</i> , 2022, , .	1.3	5
5	Singulettâ€Kontrastâ€Magnetresonanztomographie: Freisetzung der Hyperpolarisation durch den Metabolismus**. <i>Angewandte Chemie</i> , 2021, 133, 6866-6873.	1.6	3
6	Singletâ€Contrast Magnetic Resonance Imaging: Unlocking Hyperpolarization with Metabolism**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6791-6798.	7.2	28
7	<sup>31</sup> P nuclear spin singlet lifetimes in a system with switchable magnetic inequivalence: experiment and simulation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19465-19471.	1.3	7
8	Nuclear hyperpolarization of (1- <sup>13</sup> C)-pyruvate in aqueous solution by proton-relayed side-arm hydrogenation. <i>Analyst</i> , 2021, 146, 1772-1778.	1.7	23
9	A Solidâ€State Intramolecular Wittig Reaction Enables Efficient Synthesis of Endofullerenes Including Ne@C <sub>60</sub> , 3 He@C <sub>60</sub> , and HD@C <sub>60</sub> . <i>Angewandte Chemie</i> , 2021, 133, 9042-9048.	1.6	3
10	A Solidâ€State Intramolecular Wittig Reaction Enables Efficient Synthesis of Endofullerenes Including Ne@C <sub>60</sub> , <sup>3</sup> He@C <sub>60</sub> , and HD@C <sub>60</sub> . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8960-8966.	7.2	21
11	Rapid hyperpolarization and purification of the metabolite fumarate in aqueous solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	54
12	Infrared spectroscopy of an endohedral water in fullerene. <i>Journal of Chemical Physics</i> , 2021, 154, 124311.	1.2	24
13	Hyperpolarization and the physical boundary of Liouville space. <i>Magnetic Resonance</i> , 2021, 2, 395-407.	0.8	5
14	THz and IR spectroscopy of endofullerene H <sub>2</sub> O@C <sub>60</sub> . <i>Journal of Physics: Conference Series</i> , 2021, 1984, 012012.	0.3	1
15	Chemical shielding of H <sub>2</sub> O and HF encapsulated inside a C <sub>60</sub> cage. <i>Communications Chemistry</i> , 2021, 4, .	2.0	7
16	Nuclear singlet relaxation by chemical exchange. <i>Journal of Chemical Physics</i> , 2021, 155, 124311.	1.2	8
17	THz and IR spectroscopy of H <sub>2</sub> O@C <sub>60</sub> endofullerene. , 2021, , .		0
18	Low-frequency excitation of singletâ€triplet transitions. Application to nuclear hyperpolarization. <i>Journal of Chemical Physics</i> , 2021, 155, 154201.	1.2	15

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19	Experimental determination of the interaction potential between a helium atom and the interior surface of a C <sub>60</sub> fullerene molecule. <i>Journal of Chemical Physics</i> , 2021, 155, 144302.	1.2	15
20	A master equation for spin systems far from equilibrium. <i>Journal of Magnetic Resonance</i> , 2020, 310, 106645.	1.2	30
21	Robust transformation of singlet order into heteronuclear magnetisation over an extended coupling range. <i>Journal of Magnetic Resonance</i> , 2020, 321, 106850.	1.2	7
22	Synthesis of Ar@C <sub>60</sub> using molecular surgery. <i>Chemical Communications</i> , 2020, 56, 10521-10524.	2.2	26
23	Rotational coherence of encapsulated ortho and para water in fullerene-C <sub>60</sub> revealed by time-domain terahertz spectroscopy. <i>Scientific Reports</i> , 2020, 10, 18329.	1.6	20
24	An Internuclear $^3\text{He}$ -Coupling of $^3\text{He}$ Induced by Molecular Confinement. <i>Journal of the American Chemical Society</i> , 2020, 142, 16926-16929.	6.6	14
25	Bond Dissociation and Reactivity of HF and H <sub>2</sub> O in a Nano Test Tube. <i>ACS Nano</i> , 2020, 14, 11178-11189.	7.3	17
26	Fine structure in the solution state $^{13}\text{C}$ -NMR spectrum of C <sub>60</sub> and its endofullerene derivatives. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11850-11860.	1.3	17
27	Generalised magnetisation-to-singlet-order transfer in nuclear magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9703-9712.	1.3	23
28	Chapter 1. Long-lived States in Nuclear Magnetic Resonance: An Overview. <i>New Developments in NMR</i> , 2020, , 1-32.	0.1	3
29	Algorithmic cooling of nuclear spins using long-lived singlet order. <i>Journal of Chemical Physics</i> , 2020, 152, 164201.	1.2	13
30	&lt;i>Geminal</i> parahydrogen-induced polarization: accumulating long-lived singlet order on methylene proton pairs. <i>Magnetic Resonance</i> , 2020, 1, 175-186.	0.8	13
31	Long live the singlet state!. <i>Journal of Magnetic Resonance</i> , 2019, 306, 69-74.	1.2	51
32	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
33	Polarization transfer via field sweeping in parahydrogen-enhanced nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2019, 150, 174202.	1.2	46
34	Scalable dissolution-dynamic nuclear polarization with rapid transfer of a polarized solid. <i>Nature Communications</i> , 2019, 10, 1733.	5.8	46
35	First Synthesis and Characterization of CH <sub>4</sub> @C <sub>60</sub> . <i>Angewandte Chemie</i> , 2019, 131, 5092-5097.	1.6	11
36	First Synthesis and Characterization of CH <sub>4</sub> @C <sub>60</sub> . <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5038-5043.	7.2	81

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37	Excitation of singlet-triplet coherences in pairs of nearly-equivalent spins. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6087-6100.	1.3	15
38	Nuclear singlet relaxation by scalar relaxation of the second kind in the slow-fluctuation regime. <i>Journal of Chemical Physics</i> , 2019, 150, 064315.	1.2	16
39	Fast destruction of singlet order in NMR experiments. <i>Journal of Chemical Physics</i> , 2019, 151, 234203.	1.2	9
40	Field-cycling long-lived-state NMR of $^{15}\text{N}$ spin pairs. <i>Molecular Physics</i> , 2019, 117, 861-867.	0.8	11
41	NMR Lineshapes and Scalar Relaxation of the Water-Endofullerene $\text{H}_2^{17}\text{O}@^{60}\text{C}_{60}$ . <i>ChemPhysChem</i> , 2018, 19, 251-255.	1.0	19
42	Hyperpolarized long-lived nuclear spin states in monodeuterated methyl groups. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9755-9759.	1.3	23
43	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
44	Preservation of Nuclear Spin Order by Precipitation. <i>ChemPhysChem</i> , 2018, 19, 40-44.	1.0	14
45	Testing signal enhancement mechanisms in the dissolution NMR of acetone. <i>Journal of Magnetic Resonance</i> , 2018, 286, 158-162.	1.2	4
46	Synthesis and Properties of Open Fullerenes Encapsulating Ammonia and Methane. <i>ChemPhysChem</i> , 2018, 19, 266-276.	1.0	28
47	SpinDynamica: Symbolic and numerical magnetic resonance in a Mathematica environment. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 374-414.	1.1	91
48	Hyperpolarized fumarate <i>via</i> parahydrogen. <i>Chemical Communications</i> , 2018, 54, 12246-12249. <a href="#">Spin-Isomer Conversion of Water at Room Temperature and Quantum-Rotor-Induced Nuclear Polarization in the Water-Endofullerene</a>	2.2	47
49	Polarization in the Water-Endofullerene $\text{H}_2^{17}\text{O}@^{60}\text{C}_{60}$ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9755-9759.	2.9	43
50	Alignment of $^{17}\text{O}$ -enriched water- <i>endofullerene</i> $\text{H}_2^{17}\text{O}@^{60}\text{C}_{60}$ in a liquid crystal matrix. <i>Faraday Discussions</i> , 2018, 212, 517-532.	1.6	6
51	Synthesis of carbon-13 labeled oxalates exhibiting extended nuclear singlet state lifetimes. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2017, 60, 135-139.	0.5	5
52	NMR of molecular endofullerenes dissolved in a nematic liquid crystal. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11793-11801.	1.3	3
53	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
54	Versatile magnetic resonance singlet tags compatible with biological conditions. <i>RSC Advances</i> , 2017, 7, 34574-34578.	1.7	17

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55	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
56	Origins of Small Proton Chemical Shift Differences in Monodeuterated Methyl Groups. <i>Journal of Organic Chemistry</i> , 2017, 82, 8943-8949.	1.7	4
57	Bidirectional band-selective magnetization transfer along the protein backbone doubles the information content of solid-state NMR correlation experiments. <i>Journal of Biomolecular NMR</i> , 2017, 69, 197-205.	1.6	2
58	The dipolar endofullerene HF@C60. <i>Nature Chemistry</i> , 2016, 8, 953-957.	6.6	167
59	Long-lived nuclear spin states in rapidly rotating CH <sub>2</sub> D groups. <i>Journal of Magnetic Resonance</i> , 2016, 272, 87-90.	1.2	19
60	Solid State Nitrogen 14 NMR Methods for the Analysis of Hydrogen Bond Networks in Biological Systems. <i>Biophysical Journal</i> , 2016, 110, 154a-155a.	0.2	0
61	Long-lived nuclear spin states in monodeuterated methyl groups. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17965-17972.	1.3	24
62	Symmetry-breaking in the H <sub>2</sub> @C <sub>60</sub> endofullerene revealed by inelastic neutron scattering at low temperature. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1998-2005.	1.3	25
63	Symmetry constraints on spin dynamics: Application to hyperpolarized NMR. <i>Journal of Magnetic Resonance</i> , 2016, 262, 91-99.	1.2	51
64	A Nuclear Singlet Lifetime of More than One Hour in Room-Temperature Solution. <i>Angewandte Chemie</i> , 2015, 127, 3811-3814.	1.6	20
65	Nuclear spin relaxation. <i>Resonance</i> , 2015, 20, 986-994.	0.2	1
66	Synthesis and characterisation of an open-cage fullerene encapsulating hydrogen fluoride. <i>Chemical Communications</i> , 2015, 51, 4993-4996.	2.2	32
67	Electrical detection of ortho-para conversion in fullerene-encapsulated water. <i>Nature Communications</i> , 2015, 6, 8112.	5.8	57
68	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
69	Theory of long-lived nuclear spin states in methyl groups and quantum-rotor induced polarisation. <i>Journal of Chemical Physics</i> , 2015, 142, 044506.	1.2	51
70	Long-lived nuclear spin states far from magnetic equivalence. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5913-5922.	1.3	50
71	Synthesis of an Isotopically Labeled Naphthalene Derivative That Supports a Long-Lived Nuclear Singlet State. <i>Organic Letters</i> , 2015, 17, 2150-2153.	2.4	21
72	NMR of <sup>133</sup> Cs <sup>+</sup> in stretched hydrogels: One-dimensional, z - and NOESY spectra, and probing the ion's environment in erythrocytes. <i>Journal of Magnetic Resonance</i> , 2015, 261, 110-120.	1.2	12

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73	Visualisation of quantum evolution in the Stern-Gerlach and Rabi experiments. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3867-3872.	1.3	16
74	Enhancement of quantum rotor NMR signals by frequency-selective pulses. <i>Journal of Magnetic Resonance</i> , 2015, 250, 25-28.	1.2	18
75	Freezing of Molecular Motions Probed by Cryogenic Magic Angle Spinning NMR. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 512-516.	2.1	15
76	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. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21330-21339.	1.3	59
77	An optimised scalable synthesis of H <sub>2</sub> O@C <sub>60</sub> and a new synthesis of H <sub>2</sub> @C <sub>60</sub> . <i>Chemical Communications</i> , 2014, 50, 13037-13040.	2.2	83
78	Nuclear spin conversion of water inside fullerene cages detected by low-temperature nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2014, 140, 194306.	1.2	58
79	Lineshape-based polarimetry of dynamically-polarized $N_2$ in solid-state mixtures. <i>Journal of Magnetic Resonance</i> , 2013, 234, 80-94.	1.2	19
80	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
81	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
82	Infrared spectroscopy of small-molecule endofullerenes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110631.	1.6	29
83	Spectroscopy of light-molecule endofullerenes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120429.	1.6	53
84	Magic-Angle Spinning NMR of Cold Samples. <i>Accounts of Chemical Research</i> , 2013, 46, 1914-1922.	7.6	40
85	Nanolaboratories: physics and chemistry of small-molecule endofullerenes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20130124.	1.6	16
86	Recycling and Imaging of Nuclear Singlet Hyperpolarization. <i>Journal of the American Chemical Society</i> , 2013, 135, 5084-5088.	6.6	94
87	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
88	Probing the C <sub>60</sub> triplet state coupling to nuclear spins inside and out. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120475.	1.6	13
89	Hyperpolarized singlet lifetimes of pyruvate in human blood and in the mouse. <i>NMR in Biomedicine</i> , 2013, 26, 1696-1704.	1.6	54
90	Nuclear Magnetic Resonance of Hydrogen Molecules Trapped inside C <sub>70</sub> Fullerene Cages. <i>ChemPhysChem</i> , 2013, 14, 3121-3130.	1.0	11

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91	Anisotropic nuclear spin interactions in H <sub>2</sub> O@C <sub>60</sub> determined by solid-state NMR. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120102.	1.6	12
92	Inelastic neutron scattering investigations of the quantum molecular dynamics of a H <sub>2</sub> molecule entrapped inside a fullerene cage. Physical Review B, 2012, 85, .	1.1	45
93	A large geometric distortion in the first photointermediate of rhodopsin, determined by double-quantum solid-state NMR. Journal of Biomolecular NMR, 2012, 53, 247-256.	1.6	9
94	Quantum rotation of <i>ortho</i> and <i>para</i> -water encapsulated in a fullerene cage. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12894-12898.	3.3	135
95	Sensitivity enhancement and low-field spin relaxation in singlet NMR. Physical Chemistry Chemical Physics, 2012, 14, 16032.	1.3	7
96	The City and EMU. International Affairs, 2012, 88, 1261-1275.	0.6	3
97	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
98	Direct Enhancement of Nuclear Singlet Order by Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2012, 134, 7668-7671.	6.6	94
99	Hyperpolarized singlet NMR on a small animal imaging system. Magnetic Resonance in Medicine, 2012, 68, 1262-1265.	1.9	37
100	Singlet Nuclear Magnetic Resonance. Annual Review of Physical Chemistry, 2012, 63, 89-105.	4.8	195
101	Paramagnetic relaxation of nuclear singlet states. Physical Chemistry Chemical Physics, 2011, 13, 9128.	1.3	49
102	Selective internuclear coupling estimation in the solid-state NMR of multiple-spin systems. Physical Chemistry Chemical Physics, 2011, 13, 93-96.	1.3	23
103	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
104	Infrared spectroscopy of endohedral HD and D <sub>2</sub> in C <sub>60</sub> . Journal of Chemical Physics, 2011, 135, 114511.	1.2	43
105	Singlet nuclear magnetic resonance of nearly-equivalent spins. Physical Chemistry Chemical Physics, 2011, 13, 5556.	1.3	135
106	Syntheses of <sup>13</sup> C <sub>2</sub> -labelled 11Z-retinals. Tetrahedron, 2011, 67, 8404-8410.	1.0	9
107	A scaling factor theorem for homonuclear dipolar decoupling in solid-state NMR spectroscopy. Journal of Magnetic Resonance, 2011, 212, 11-16.	1.2	8
108	Short Perspective on <sup>13</sup> C NMR Population Inversion Using a Composite Pulse by M.H. Levitt and R. Freeman [J. Magn. Reson. 33 (1979) 473-476]. Journal of Magnetic Resonance, 2011, 213, 274-275.	1.2	11

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109	An NMR thermometer for cryogenic magic-angle spinning NMR: The spin-lattice relaxation of 127I in cesium iodide. <i>Journal of Magnetic Resonance</i> , 2011, 212, 460-463.	1.2	18
110	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. <i>Coordination Chemistry Reviews</i> , 2011, 255, 938-948.	9.5	58
111	Measurements of the persistent singlet state of N <sub>2</sub> O in blood and other solventsâ€”Potential as a magnetic tracer. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1177-1180.	1.9	34
112	<sup>1</sup> H homonuclear dipolar decoupling using rotor-synchronised pulse sequences: Towards pure absorption phase spectra. <i>Journal of Magnetic Resonance</i> , 2010, 205, 269-275.	1.2	10
113	Inelastic neutron scattering of a quantum translator-rotator encapsulated in a closed fullerene cage: Isotope effects and translation-rotation coupling in $\langle \text{H} \rangle_{2@^{57}\text{Fe}}$ . <i>Physical Review B</i> , 2010, 82, .	1.1	57
114	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
115	Orientational Sampling Schemes Based on Four Dimensional Polytopes. <i>Symmetry</i> , 2010, 2, 1423-1449.	1.1	16
116	Determination of Molecular Torsion Angles Using Nuclear Singlet Relaxation. <i>Journal of the American Chemical Society</i> , 2010, 132, 8225-8227.	6.6	40
117	Rotor in a cage: Infrared spectroscopy of an endohedral hydrogen-fullerene complex. <i>Journal of Chemical Physics</i> , 2009, 130, 081103.	1.2	90
118	Supercycled homonuclear dipolar decoupling sequences in solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2009, 197, 14-19.	1.2	45
119	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
120	Extremely Low-Frequency Spectroscopy in Low-Field Nuclear Magnetic Resonance. <i>Physical Review Letters</i> , 2009, 103, 083002.	2.9	53
121	Light Penetration and Photoisomerization in Rhodopsin studied by Numerical Simulations and Double-Quantum Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 6133-6140.	6.6	16
122	Quantum Translator-Rotator: Inelastic Neutron Scattering of Dihydrogen Molecules Trapped inside Anisotropic Fullerene Cages. <i>Physical Review Letters</i> , 2009, 102, 013001.	2.9	61
123	Towards an interpretation of <sup>13</sup> C chemical shifts in bathorhodopsin, a functional intermediate of a G-protein coupled receptor. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1350-1357.	1.4	16
124	A Hall effect angle detector for solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2008, 190, 135-141.	1.2	34
125	Isotropic filtering using polyhedral phase cycles: Application to singlet state NMR. <i>Journal of Magnetic Resonance</i> , 2008, 191, 148-155.	1.2	27
126	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



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127	Symmetry in the design of NMR multiple-pulse sequences. <i>Journal of Chemical Physics</i> , 2008, 128, 052205.	1.2	119
128	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
129	Double-Quantum <sup>13</sup> 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
130	Thermal history effects and methyl tunneling dynamics in a supramolecular complex of calixarene and para-xylene. <i>Journal of Chemical Physics</i> , 2008, 128, 144512.	1.2	2
131	Solid-state NMR of endohedral hydrogen- <sup>13</sup> C fullerene complexes. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4879.	1.3	69
132	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
133	J-Stabilization of singlet states in the solution NMR of multiple-spin systems. <i>Journal of Magnetic Resonance</i> , 2007, 187, 141-145.	1.2	60
134	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
135	Accurate Measurements of <sup>13</sup> C- <sup>13</sup> 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
136	Cryogenic NMR spectroscopy of endohedral hydrogen-fullerene complexes. <i>Journal of Chemical Physics</i> , 2006, 124, 104507.	1.2	51
137	Truncated dipolar recoupling in solid-state nuclear magnetic resonance. <i>Chemical Physics Letters</i> , 2006, 432, 572-578.	1.2	35
138	Symmetry-based recoupling of <sup>17</sup> O- <sup>1</sup> H spin pairs in magic-angle spinning NMR. <i>Journal of Magnetic Resonance</i> , 2006, 179, 38-48.	1.2	49
139	Long-lived nuclear spin states in the solution NMR of four-spin systems. <i>Journal of Magnetic Resonance</i> , 2006, 182, 353-357.	1.2	72
140	Theory and applications of supercycled symmetry-based recoupling sequences in solid-state nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2006, 124, 234510.	1.2	65
141	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
142	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
143	A Solid-State NMR Method for Solution of Zeolite Crystal Structures.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
144	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

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145	Spherical tensor analysis of nuclear magnetic resonance signals. <i>Journal of Chemical Physics</i> , 2005, 122, 2445-10.	1.2	42
146	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
147	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
148	Some conjectures for cogwheel phase cycling. <i>Journal of Magnetic Resonance</i> , 2004, 167, 259-265.	1.2	20
149	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
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