

Robert G Griffin

List of Publications by Year in descending order

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305
papers

33,580
citations

2565

99
h-index

5244

171
g-index

313
all docs

313
docs citations

313
times ranked

13856
citing authors

#	ARTICLE	IF	CITATIONS
1	3D-printed stators & drive caps for magic-angle spinning NMR. <i>Journal of Magnetic Resonance</i> , 2022, 335, 107126.	1.2	8
2	¹ H detection and dynamic nuclear polarization-enhanced NMR of A β ₁₋₄₂ fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	24
3	Observation of a Four-Spin Solid Effect. <i>Journal of Chemical Physics</i> , 2022, 156, 174201.	1.2	1
4	Integrated, Stretched, and Adiabatic Solid Effects. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5751-5757.	2.1	7
5	Residue-Specific High-Resolution ¹⁷ O Solid-State Nuclear Magnetic Resonance of Peptides: Multidimensional Indirect ¹ H Detection and Magic-Angle Spinning. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6549-6558.	2.1	6
6	Tau induces formation of I \pm -synuclein filaments with distinct molecular conformations. <i>Biochemical and Biophysical Research Communications</i> , 2021, 554, 145-150.	1.0	13
7	Melanie Madeleine Rosay. <i>Journal of Magnetic Resonance</i> , 2021, 327, 106979.	1.2	1
8	Time domain DNP at 1.2â€T. <i>Journal of Magnetic Resonance</i> , 2021, 329, 107012.	1.2	11
9	Molecular Basis of Ca(II)-Induced Tetramerization and Transition-Metal Sequestration in Human Calprotectin. <i>Journal of the American Chemical Society</i> , 2021, 143, 18073-18090.	6.6	7
10	DNPSOUP: A simulation software package for dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2021, 334, 107107.	1.2	3
11	Overhauser Dynamic Nuclear Polarization with Selectively Deuterated BDPA Radicals. <i>Journal of the American Chemical Society</i> , 2021, 143, 20281-20290.	6.6	26
12	Second Harmonic 527-GHz Gyrotron for DNP-NMR: Design and Experimental Results. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 328-334.	1.6	41
13	Disruption of the CD Loop by Enzymatic Cleavage Promotes the Formation of Toxic Transthyretin Oligomers through a Common Transthyretin Misfolding Pathway. <i>Biochemistry</i> , 2020, 59, 2319-2327.	1.2	19
14	Structural Characterization of Cardiac Ex Vivo Transthyretin Amyloid: Insight into the Transthyretin Misfolding Pathway In Vivo. <i>Biochemistry</i> , 2020, 59, 1800-1803.	1.2	9
15	Adiabatic Solid Effect. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3416-3421.	2.1	13
16	Modular, triple-resonance, transmission line DNP MAS probe for 500â€MHz/330â€GHz. <i>Journal of Magnetic Resonance</i> , 2019, 307, 106573.	1.2	2
17	Three-spin solid effect and the spin diffusion barrier in amorphous solids. <i>Science Advances</i> , 2019, 5, eaax2743.	4.7	47
18	High frequency dynamic nuclear polarization: New directions for the 21st century. <i>Journal of Magnetic Resonance</i> , 2019, 306, 128-133.	1.2	33

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19	Structural characterization of the human membrane protein VDAC2 in lipid bilayers by MAS NMR. <i>Journal of Biomolecular NMR</i> , 2019, 73, 451-460.	1.6	13
20	Time-optimized pulsed dynamic nuclear polarization. <i>Science Advances</i> , 2019, 5, eaav6909.	4.7	51
21	High-Resolution ¹⁷ O NMR Spectroscopy of Structural Water. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3061-3067.	1.2	25
22	Convolutional Neural Network Analysis of Two-Dimensional Hyperfine Sublevel Correlation Electron Paramagnetic Resonance Spectra. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1115-1119.	2.1	9
23	Primary Transfer Step in the Light-Driven Ion Pump Bacteriorhodopsin: An Irreversible U-Turn Revealed by Dynamic Nuclear Polarization-Enhanced Magic Angle Spinning NMR. <i>Journal of the American Chemical Society</i> , 2018, 140, 4085-4091.	6.6	54
24	High-precision measurement of the electron spin g factor of trapped atomic nitrogen in the endohedral fullerene N@C60. <i>Journal of Magnetic Resonance</i> , 2018, 290, 12-17.	1.2	11
25	Overhauser effects in non-conducting solids at 1.2 K. <i>Journal of Magnetic Resonance</i> , 2018, 286, 138-142.	1.2	22
26	Conformation of bis-nitroxide polarizing agents by multi-frequency EPR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25506-25517.	1.3	27
27	Metal-free class Ie ribonucleotide reductase from pathogens initiates catalysis with a tyrosine-derived dihydroxyphenylalanine radical. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10022-10027.	3.3	49
28	The structure of a Î²2-microglobulin fibril suggests a molecular basis for its amyloid polymorphism. <i>Nature Communications</i> , 2018, 9, 4517.	5.8	124
29	Frequency-Swept Integrated and Stretched Solid Effect Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3187-3192.	2.1	28
30	Localization of Cl-35 nuclei in biological solids using rotational-echo double-resonance experiments. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 82-83, 35-41.	1.5	1
31	Ramped-amplitude NOVEL. <i>Journal of Chemical Physics</i> , 2017, 146, 154204.	1.2	28
32	Peptide and Protein Dynamics and Low-Temperature/DNP Magic Angle Spinning NMR. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4997-5006.	1.2	60
33	Frequency-Swept Integrated Solid Effect. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6744-6748.	7.2	45
34	3D MAS NMR Experiment Utilizing Through-Space ¹⁵ N- ¹⁵ N Correlations. <i>Journal of the American Chemical Society</i> , 2017, 139, 6518-6521.	6.6	18
35	Frequency-Swept Integrated Solid Effect. <i>Angewandte Chemie</i> , 2017, 129, 6848-6852.	1.6	4
36	Combining DNP NMR with segmental and specific labeling to study a yeast prion protein strain that is not parallel in-register. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3642-3647.	3.3	63

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37	Efficient cross-effect dynamic nuclear polarization without depolarization in high-resolution MAS NMR. <i>Chemical Science</i> , 2017, 8, 8150-8163.	3.7	76
38	Proton-Assisted Recoupling (PAR) in Peptides and Proteins. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10804-10817.	1.2	15
39	Reprint of: Localization of Cl-35 Nuclei in Biological Solids using Rotational-Echo Double-Resonance Experiments. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 242-248.	1.5	1
40	Aggregation and Fibril Structure of $\text{A}\beta^{1-42}$ and $\text{A}\beta^{1-40}$. <i>Biochemistry</i> , 2017, 56, 4850-4859.	1.2	19
41	In Situ Characterization of Pharmaceutical Formulations by Dynamic Nuclear Polarization Enhanced MAS NMR. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8132-8141.	1.2	51
42	^{17}O MAS NMR Correlation Spectroscopy at High Magnetic Fields. <i>Journal of the American Chemical Society</i> , 2017, 139, 17953-17963.	6.6	44
43	Off-resonance NOVEL. <i>Journal of Chemical Physics</i> , 2017, 147, 164201.	1.2	38
44	Interrogating the Lewis Acidity of Metal Sites in Beta Zeolites with ^{15}N Pyridine Adsorption Coupled with MAS NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28533-28544.	1.5	91
45	^{17}O NMR Investigation of Water Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7851-7858.	1.2	28
46	Gd(III) and Mn(II) complexes for dynamic nuclear polarization: small molecular chelate polarizing agents and applications with site-directed spin labeling of proteins. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27205-27218.	1.3	76
47	Atomic Resolution Structure of Monomorphic $\text{A}\beta^{1-42}$ Amyloid Fibrils. <i>Journal of the American Chemical Society</i> , 2016, 138, 9663-9674.	6.6	695
48	Highly branched and loop-rich gels via formation of metal-organic cages linked by polymers. <i>Nature Chemistry</i> , 2016, 8, 33-41.	6.6	234
49	Pulsed Dynamic Nuclear Polarization with Trityl Radicals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 111-116.	2.1	47
50	Three pulse recoupling and phase jump matching. <i>Journal of Magnetic Resonance</i> , 2016, 263, 172-183.	1.2	7
51	Time domain DNP with the NOVEL sequence. <i>Journal of Chemical Physics</i> , 2015, 143, 054201.	1.2	66
52	Efficient Dynamic Nuclear Polarization at 800 MHz/527 GHz with Trityl Nitroxide Biradicals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11770-11774.	7.2	172
53	Biosilica-Entrapped Enzymes Studied by Using Dynamic Nuclear Polarization-Enhanced High-Field NMR Spectroscopy. <i>ChemPhysChem</i> , 2015, 16, 2751-2754.	1.0	30
54	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9162-9185.	7.2	258

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55	High Resolution Structural Characterization of $\text{A}\beta_{42}$ Amyloid Fibrils by Magic Angle Spinning NMR. <i>Journal of the American Chemical Society</i> , 2015, 137, 7509-7518.	6.6	103
56	Structural Insights into Bound Water in Crystalline Amino Acids: Experimental and Theoretical ^{17}O NMR. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8024-8036.	1.2	35
57	Lipid bilayer-bound conformation of an integral membrane beta barrel protein by multidimensional MAS NMR. <i>Journal of Biomolecular NMR</i> , 2015, 61, 299-310.	1.6	38
58	Low-Temperature Polymorphic Phase Transition in a Crystalline Tripeptide l-Ala-l-Pro-Gly \cdot H ₂ O Revealed by Adiabatic Calorimetry. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1787-1792.	1.2	2
59	Magic Angle Spinning Nuclear Magnetic Resonance Characterization of Voltage-Dependent Anion Channel Gating in Two-Dimensional Lipid Crystalline Bilayers. <i>Biochemistry</i> , 2015, 54, 994-1005.	1.2	34
60	Dynamic DMF Binding in MOF-5 Enables the Formation of Metastable Cobalt-Substituted MOF-5 Analogues. <i>ACS Central Science</i> , 2015, 1, 252-260.	5.3	123
61	Structure and Mechanism of the Influenza A M2 σ Dimer of Dimers. <i>Journal of the American Chemical Society</i> , 2015, 137, 14877-14886.	6.6	103
62	Formation of organic molecular nanocrystals under soft confinement. <i>CrystEngComm</i> , 2015, 17, 6044-6052.	1.3	17
63	Mechanisms of dynamic nuclear polarization in insulating solids. <i>Journal of Magnetic Resonance</i> , 2015, 253, 23-35.	1.2	110
64	Magic Angle Spinning NMR of Proteins: High-Frequency Dynamic Nuclear Polarization and ^1H Detection. <i>Annual Review of Biochemistry</i> , 2015, 84, 465-497.	5.0	128
65	Confined crystallization of fenofibrate in nanoporous silica. <i>CrystEngComm</i> , 2015, 17, 7922-7929.	1.3	54
66	N-Terminal Extensions Retard $\text{A}\beta_{42}$ Fibril Formation but Allow Cross-Seeding and Coaggregation with $\text{A}\beta_{42}$. <i>Journal of the American Chemical Society</i> , 2015, 137, 14673-14685.	6.6	58
67	Sensitivity-Enhanced NMR Reveals Alterations in Protein Structure by Cellular Milieus. <i>Cell</i> , 2015, 163, 620-628.	13.5	126
68	One-pot synthesis of MWW zeolite nanosheets using a rationally designed organic structure-directing agent. <i>Chemical Science</i> , 2015, 6, 6320-6324.	3.7	118
69	Zeolite Y adsorbents with high vapor uptake capacity and robust cycling stability for potential applications in advanced adsorption heat pumps. <i>Microporous and Mesoporous Materials</i> , 2015, 201, 151-159.	2.2	36
70	Overhauser effects in insulating solids. <i>Journal of Chemical Physics</i> , 2014, 141, 064202.	1.2	152
71	Paramagnet induced signal quenching in MAS σ DNP experiments in frozen homogeneous solutions. <i>Journal of Magnetic Resonance</i> , 2014, 240, 113-123.	1.2	106
72	Topical Developments in High-Field Dynamic Nuclear Polarization. <i>Israel Journal of Chemistry</i> , 2014, 54, 207-221.	1.0	40

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73	Distinct Prion Strains Are Defined by Amyloid Core Structure and Chaperone Binding Site Dynamics. <i>Chemistry and Biology</i> , 2014, 21, 295-305.	6.2	68
74	Formation of organic molecular nanocrystals under rigid confinement with analysis by solid state NMR. <i>CrystEngComm</i> , 2014, 16, 9345-9352.	1.3	19
75	One-pot solvothermal synthesis of a well-ordered layered sodium aluminohydroxide complex: a useful precursor for the preparation of porous Al ₂ O ₃ particles. <i>CrystEngComm</i> , 2014, 16, 2950-2958.	1.3	6
76	Dynamic Nuclear Polarization of ¹ H, ¹³ C, and ⁵⁹ Co in a Tris(ethylenediamine)cobalt(III) Crystalline Lattice Doped with Cr(III). <i>Journal of the American Chemical Society</i> , 2014, 136, 11716-11727.	6.6	64
77	A Chemically Competent Thiosulfuranyl Radical on the <i>Escherichia coli</i> Class III Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2014, 136, 9001-9013.	6.6	30
78	DNP-Enhanced MAS NMR of Bovine Serum Albumin Sediments and Solutions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2957-2965.	1.2	36
79	High Field Dynamic Nuclear Polarization NMR with Surfactant Sheltered Biradicals. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1825-1830.	1.2	15
80	Rapid Proton-Detected NMR Assignment for Proteins with Fast Magic Angle Spinning. <i>Journal of the American Chemical Society</i> , 2014, 136, 12489-12497.	6.6	254
81	Secondary Structure in the Core of Amyloid Fibrils Formed from Human I ²⁷ m and its Truncated Variant I ¹⁻¹⁶ N6. <i>Journal of the American Chemical Society</i> , 2014, 136, 6313-6325.	6.6	40
82	Efficient, balanced, transmission line RF circuits by back propagation of common impedance nodes. <i>Journal of Magnetic Resonance</i> , 2013, 231, 32-38.	1.2	8
83	Efficient resonance assignment of proteins in MAS NMR by simultaneous intra- and inter-residue 3D correlation spectroscopy. <i>Journal of Biomolecular NMR</i> , 2013, 55, 257-265.	1.6	32
84	Atomic structure and hierarchical assembly of a cross-β amyloid fibril. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5468-5473.	3.3	479
85	Dynamic Nuclear Polarization Study of Inhibitor Binding to the M2 ¹⁸⁻⁶⁰ Proton Transporter from Influenza A. <i>Biochemistry</i> , 2013, 52, 2774-2782.	1.2	66
86	Dynamic Nuclear Polarization of ¹⁷ O: Direct Polarization. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14894-14906.	1.2	62
87	Photonic-Band-Gap Traveling-Wave Gyrotron Amplifier. <i>Physical Review Letters</i> , 2013, 111, 235101.	2.9	100
88	Selectively dispersed isotope labeling for protein structure determination by magic angle spinning NMR. <i>Journal of Biomolecular NMR</i> , 2013, 57, 129-139.	1.6	22
89	Higher Order Amyloid Fibril Structure by MAS NMR and DNP Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 19237-19247.	6.6	82
90	Continuously Tunable 250 GHz Gyrotron with a Double Disk Window for DNP-NMR Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2013, 34, 42-52.	1.2	45

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91	High-Field ¹³ C Dynamic Nuclear Polarization with a Radical Mixture. <i>Journal of the American Chemical Society</i> , 2013, 135, 2935-2938.	6.6	62
92	High Frequency Dynamic Nuclear Polarization. <i>Accounts of Chemical Research</i> , 2013, 46, 1933-1941.	7.6	480
93	Dynamic Nuclear Polarization of Sedimented Solutes. <i>Journal of the American Chemical Society</i> , 2013, 135, 1641-1644.	6.6	56
94	Solvent-Free Dynamic Nuclear Polarization of Amorphous and Crystalline <i>ortho</i> -Terphenyl. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3040-3046.	1.2	71
95	Observation of strongly forbidden solid effect dynamic nuclear polarization transitions via electron-electron double resonance detected NMR. <i>Journal of Chemical Physics</i> , 2013, 139, 214201.	1.2	11
96	Expanding the Repertoire of Amyloid Polymorphs by Co-polymerization of Related Protein Precursors. <i>Journal of Biological Chemistry</i> , 2013, 288, 7327-7337.	1.6	36
97	Solid effect in magic angle spinning dynamic nuclear polarization. <i>Journal of Chemical Physics</i> , 2012, 137, 054201.	1.2	65
98	Solid effect dynamic nuclear polarization and polarization pathways. <i>Journal of Chemical Physics</i> , 2012, 136, 015101.	1.2	99
99	An Amyloid Organelle, Solid-state NMR Evidence for Cross- β^2 Assembly of Gas Vesicles. <i>Journal of Biological Chemistry</i> , 2012, 287, 3479-3484.	1.6	33
100	Compensated second-order recoupling: application to third spin assisted recoupling. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7246.	1.3	15
101	Lipid Dynamics and Protein-Lipid Interactions in 2D Crystals Formed with the β^2 -Barrel Integral Membrane Protein VDAC1. <i>Journal of the American Chemical Society</i> , 2012, 134, 6375-6387.	6.6	65
102	Magic-Angle-Spinning NMR of the Drug Resistant S31N M2 Proton Transporter from Influenza A. <i>Journal of the American Chemical Society</i> , 2012, 134, 7215-7218.	6.6	55
103	Water-Soluble Narrow-Line Radicals for Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2012, 134, 14287-14290.	6.6	87
104	A 250 GHz gyrotron with a 3 GHz tuning bandwidth for dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2012, 221, 147-153.	1.2	87
105	A 140GHz pulsed EPR/212MHz NMR spectrometer for DNP studies. <i>Journal of Magnetic Resonance</i> , 2012, 223, 170-179.	1.2	37
106	Dynamic nuclear polarization at 700MHz/460GHz. <i>Journal of Magnetic Resonance</i> , 2012, 224, 1-7.	1.2	85
107	¹ H Dynamic Nuclear Polarization Based on an Endogenous Radical. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7055-7065.	1.2	59
108	Dynamic Nuclear Polarization with a Water-Soluble Rigid Biradical. <i>Journal of the American Chemical Society</i> , 2012, 134, 4537-4540.	6.6	89

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109	Dynamic Nuclear Polarization of Oxygen-17. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2030-2034.	2.1	51
110	Rigid Orthogonal Bis-TEMPO Biradicals with Improved Solubility for Dynamic Nuclear Polarization. <i>Journal of Organic Chemistry</i> , 2012, 77, 1789-1797.	1.7	75
111	Deterministic schedules for robust and reproducible non-uniform sampling in multidimensional NMR. <i>Journal of Magnetic Resonance</i> , 2012, 214, 296-301.	1.2	18
112	Intermolecular Structure Determination of Amyloid Fibrils with Magic-Angle Spinning and Dynamic Nuclear Polarization NMR. <i>Journal of the American Chemical Society</i> , 2011, 133, 13967-13974.	6.6	160
113	Quantum mechanical theory of dynamic nuclear polarization in solid dielectrics. <i>Journal of Chemical Physics</i> , 2011, 134, 125105.	1.2	133
114	Design of a 527 GHz gyrotron for DNP-NMR spectroscopy. , 2011, , .		7
115	Recent progress at MIT on THz gyrotron oscillators for DNP/NMR. , 2011, , .		3
116	High-Field Dynamic Nuclear Polarization with High-Spin Transition Metal Ions. <i>Journal of the American Chemical Society</i> , 2011, 133, 5648-5651.	6.6	119
117	THz Dynamic Nuclear Polarization NMR. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2011, 1, 145-163.	2.0	161
118	Recoupling in solid state NMR using \hat{I}^3 prepared states and phase matching. <i>Journal of Magnetic Resonance</i> , 2011, 212, 402-411.	1.2	12
119	Dynamic nuclear polarization at 9T using a novel 250 Gyrotron microwave source. <i>Journal of Magnetic Resonance</i> , 2011, 213, 410-412.	1.2	30
120	Dynamic nuclear polarization at 9 T using a novel 250 GHz gyrotron microwave source. <i>Journal of Magnetic Resonance</i> , 2011, 213, 404-409.	1.2	12
121	Operation of a Continuously Frequency-Tunable Second-Harmonic CW 330-GHz Gyrotron for Dynamic Nuclear Polarization. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 2777-2783.	1.6	157
122	Microwave field distribution in a magic angle spinning dynamic nuclear polarization NMR probe. <i>Journal of Magnetic Resonance</i> , 2011, 210, 16-23.	1.2	73
123	Proton-driven spin diffusion in rotating solids via reversible and irreversible quantum dynamics. <i>Journal of Chemical Physics</i> , 2011, 135, 134509.	1.2	31
124	Heteronuclear proton assisted recoupling. <i>Journal of Chemical Physics</i> , 2011, 134, 095101.	1.2	48
125	In situ High-Field Dynamic Nuclear Polarization—Direct and Indirect Polarization of ^{13}C nuclei. <i>ChemPhysChem</i> , 2010, 11, 999-1001.	1.0	46
126	Dynamic Nuclear Polarization of Deuterated Proteins. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7803-7806.	7.2	154

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127	Rapid Three-Dimensional MAS NMR Spectroscopy at Critical Sensitivity. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9215-9218.	7.2	35
128	DNP enhanced frequency-selective TEDOR experiments in bacteriorhodopsin. <i>Journal of Magnetic Resonance</i> , 2010, 202, 9-13.	1.2	51
129	Clear signals from surfaces. <i>Nature</i> , 2010, 468, 381-382.	13.7	22
130	Continuous-Wave Operation of a Frequency-Tunable 460-GHz Second-Harmonic Gyrotron for Enhanced Nuclear Magnetic Resonance. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 1150-1159.	0.6	216
131	High field dynamic nuclear polarization—the renaissance. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5737.	1.3	188
132	Solid-State NMR Characterization of Gas Vesicle Structure. <i>Biophysical Journal</i> , 2010, 99, 1932-1939.	0.2	42
133	Intermolecular Alignment in β -Microglobulin Amyloid Fibrils. <i>Journal of the American Chemical Society</i> , 2010, 132, 17077-17079.	6.6	69
134	High-Resolution MAS NMR Analysis of PI3-SH3 Amyloid Fibrils: Backbone Conformation and Implications for Protofilament Assembly and Structure. <i>Biochemistry</i> , 2010, 49, 7474-7484.	1.2	52
135	Magic Angle Spinning NMR Investigation of Influenza A M2 ^{H3N2} : Support for an Allosteric Mechanism of Inhibition. <i>Journal of the American Chemical Society</i> , 2010, 132, 10958-10960.	6.6	82
136	Structural Characterization of GNNQQNY Amyloid Fibrils by Magic Angle Spinning NMR. <i>Biochemistry</i> , 2010, 49, 9457-9469.	1.2	66
137	Magic Angle Spinning NMR Analysis of β -Microglobulin Amyloid Fibrils in Two Distinct Morphologies. <i>Journal of the American Chemical Society</i> , 2010, 132, 10414-10423.	6.6	79
138	Accurate Determination of Interstrand Distances and Alignment in Amyloid Fibrils by Magic Angle Spinning NMR. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13555-13561.	1.2	25
139	Resolution and polarization distribution in cryogenic DNP/MAS experiments. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5861.	1.3	87
140	High-Resolution Solid-State NMR Structure of a 17.6 kDa Protein. <i>Journal of the American Chemical Society</i> , 2010, 132, 1032-1040.	6.6	117
141	Optimization of THz wave coupling into samples in DNP/NMR spectroscopy. , 2010, , .		1
142	Properties of dinitroxides for use in dynamic nuclear polarization (DNP). <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5841.	1.3	62
143	² H-DNP-enhanced ² H- ¹³ C solid-state NMR correlation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5872.	1.3	55
144	Dynamic nuclear polarization-enhanced solid-state NMR spectroscopy of GNNQQNY nanocrystals and amyloid fibrils. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5911.	1.3	114

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145	Solid-state dynamic nuclear polarization at 263 GHz: spectrometer design and experimental results. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5850.	1.3	315
146	Continuous-Wave Operation of a Frequency-Tunable 460-GHz Second-Harmonic Gyrotron for Enhanced Nuclear Magnetic Resonance. <i>IEEE Transactions on Electron Devices</i> , 2010, 38, 1150-1159.	1.6	10
147	Dipolar truncation in magic-angle spinning NMR recoupling experiments. <i>Journal of Chemical Physics</i> , 2009, 130, 114506.	1.2	162
148	Targeted ¹³ C- ¹³ C Distance Measurements in a Microcrystalline Protein via π -Decoupled Rotational Resonance Width Measurements. <i>ChemPhysChem</i> , 2009, 10, 1656-1663.	1.0	11
149	Dynamic Nuclear Polarization with a Rigid Biradical. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4996-5000.	7.2	248
150	Long-Range Correlations between Aliphatic ¹³ C Nuclei in Protein MAS NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5708-5710.	7.2	35
151	Cryogenic sample exchange NMR probe for magic angle spinning dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2009, 198, 261-270.	1.2	108
152	Chemical shift anisotropy selective inversion. <i>Journal of Magnetic Resonance</i> , 2009, 200, 233-238.	1.2	2
153	CHHC and 1H-1H magnetization exchange: Analysis by experimental solid-state NMR and 11-spin density-matrix simulations. <i>Journal of Magnetic Resonance</i> , 2009, 199, 173-187.	1.2	29
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155	In Situ Temperature-Jump Dynamic Nuclear Polarization: Enhanced Sensitivity in Two Dimensional ¹³ C- ¹³ C Correlation Spectroscopy in Solution. <i>Journal of the American Chemical Society</i> , 2009, 131, 12-13.	6.6	39
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