

# Robert G Griffin

## List of Publications by Year in descending order

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305  
papers

33,580  
citations

2215

99  
h-index

4548

171  
g-index

313  
all docs

313  
docs citations

313  
times ranked

12352  
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.	2.1	8
2	<sup>1</sup> H detection and dynamic nuclear polarization-enhanced NMR of A $\beta$ <sub>1-42</sub> fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	24
3	Observation of a Four-Spin Solid Effect. <i>Journal of Chemical Physics</i> , 2022, 156, 174201.	3.0	1
4	Integrated, Stretched, and Adiabatic Solid Effects. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5751-5757.	4.6	7
5	Residue-Specific High-Resolution <sup>17</sup> O Solid-State Nuclear Magnetic Resonance of Peptides: Multidimensional Indirect <sup>1</sup> H Detection and Magic-Angle Spinning. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6549-6558.	4.6	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.	2.1	13
7	Melanie Madeleine Rosay. <i>Journal of Magnetic Resonance</i> , 2021, 327, 106979.	2.1	1
8	Time domain DNP at 1.2â€°T. <i>Journal of Magnetic Resonance</i> , 2021, 329, 107012.	2.1	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.	13.7	7
10	DNPSOUP: A simulation software package for dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2021, 334, 107107.	2.1	3
11	Overhauser Dynamic Nuclear Polarization with Selectively Deuterated BDPA Radicals. <i>Journal of the American Chemical Society</i> , 2021, 143, 20281-20290.	13.7	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.	3.0	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.	2.5	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.	2.5	9
15	Adiabatic Solid Effect. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3416-3421.	4.6	13
16	Modular, triple-resonance, transmission line DNP MAS probe for 500â€°MHz/330â€°GHz. <i>Journal of Magnetic Resonance</i> , 2019, 307, 106573.	2.1	2
17	Three-spin solid effect and the spin diffusion barrier in amorphous solids. <i>Science Advances</i> , 2019, 5, eaax2743.	10.3	47
18	High frequency dynamic nuclear polarization: New directions for the 21st century. <i>Journal of Magnetic Resonance</i> , 2019, 306, 128-133.	2.1	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.	2.8	13
20	Time-optimized pulsed dynamic nuclear polarization. <i>Science Advances</i> , 2019, 5, eaav6909.	10.3	51
21	High-Resolution <sup>17</sup> O NMR Spectroscopy of Structural Water. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3061-3067.	2.6	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.	4.6	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.	13.7	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.	2.1	11
25	Overhauser effects in non-conducting solids at 1.2 K. <i>Journal of Magnetic Resonance</i> , 2018, 286, 138-142.	2.1	22
26	Conformation of bis-nitroxide polarizing agents by multi-frequency EPR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25506-25517.	2.8	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.	7.1	49
28	The structure of a Î²2-microglobulin fibril suggests a molecular basis for its amyloid polymorphism. <i>Nature Communications</i> , 2018, 9, 4517.	12.8	124
29	Frequency-Swept Integrated and Stretched Solid Effect Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3187-3192.	4.6	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.	2.3	1
31	Ramped-amplitude NOVEL. <i>Journal of Chemical Physics</i> , 2017, 146, 154204.	3.0	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.	2.6	60
33	Frequency-Swept Integrated Solid Effect. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6744-6748.	13.8	45
34	3D MAS NMR Experiment Utilizing Through-Space <sup>15</sup> N- <sup>15</sup> N Correlations. <i>Journal of the American Chemical Society</i> , 2017, 139, 6518-6521.	13.7	18
35	Frequency-Swept Integrated Solid Effect. <i>Angewandte Chemie</i> , 2017, 129, 6848-6852.	2.0	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.	7.1	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.	7.4	76
38	Proton-Assisted Recoupling (PAR) in Peptides and Proteins. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10804-10817.	2.6	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.	2.3	1
40	Aggregation and Fibril Structure of $\text{Al}^{2+}$ and $\text{Al}^{3+}$ . <i>Biochemistry</i> , 2017, 56, 4850-4859.	2.5	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.	2.6	51
42	$^{17}\text{O}$ MAS NMR Correlation Spectroscopy at High Magnetic Fields. <i>Journal of the American Chemical Society</i> , 2017, 139, 17953-17963.	13.7	44
43	Off-resonance NOVEL. <i>Journal of Chemical Physics</i> , 2017, 147, 164201.	3.0	38
44	Interrogating the Lewis Acidity of Metal Sites in Beta Zeolites with $^{15}\text{N}$ Pyridine Adsorption Coupled with MAS NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28533-28544.	3.1	91
45	$^{17}\text{O}$ NMR Investigation of Water Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7851-7858.	2.6	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.	2.8	76
47	Atomic Resolution Structure of Monomorphic $\text{Al}^{2+}$ Amyloid Fibrils. <i>Journal of the American Chemical Society</i> , 2016, 138, 9663-9674.	13.7	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.	13.6	234
49	Pulsed Dynamic Nuclear Polarization with Trityl Radicals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 111-116.	4.6	47
50	Three pulse recoupling and phase jump matching. <i>Journal of Magnetic Resonance</i> , 2016, 263, 172-183.	2.1	7
51	Time domain DNP with the NOVEL sequence. <i>Journal of Chemical Physics</i> , 2015, 143, 054201.	3.0	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.	13.8	172
53	Biosilica-Entrapped Enzymes Studied by Using Dynamic Nuclear Polarization-Enhanced High-Field NMR Spectroscopy. <i>ChemPhysChem</i> , 2015, 16, 2751-2754.	2.1	30
54	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9162-9185.	13.8	258

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55	High Resolution Structural Characterization of A $\beta$ <sub>42</sub> Amyloid Fibrils by Magic Angle Spinning NMR. <i>Journal of the American Chemical Society</i> , 2015, 137, 7509-7518.	13.7	103
56	Structural Insights into Bound Water in Crystalline Amino Acids: Experimental and Theoretical <sup>17</sup> O NMR. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8024-8036.	2.6	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.	2.8	38
58	Low-Temperature Polymorphic Phase Transition in a Crystalline Tripeptide l-Ala-l-Pro-Gly·H <sub>2</sub> O Revealed by Adiabatic Calorimetry. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1787-1792.	2.6	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.	2.5	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.	11.3	123
61	Structure and Mechanism of the Influenza A M2 <sup>18</sup> Dimer of Dimers. <i>Journal of the American Chemical Society</i> , 2015, 137, 14877-14886.	13.7	103
62	Formation of organic molecular nanocrystals under soft confinement. <i>CrystEngComm</i> , 2015, 17, 6044-6052.	2.6	17
63	Mechanisms of dynamic nuclear polarization in insulating solids. <i>Journal of Magnetic Resonance</i> , 2015, 253, 23-35.	2.1	110
64	Magic Angle Spinning NMR of Proteins: High-Frequency Dynamic Nuclear Polarization and <sup>1</sup> H Detection. <i>Annual Review of Biochemistry</i> , 2015, 84, 465-497.	11.1	128
65	Confined crystallization of fenofibrate in nanoporous silica. <i>CrystEngComm</i> , 2015, 17, 7922-7929.	2.6	54
66	N-Terminal Extensions Retard A $\beta$ <sub>42</sub> Fibril Formation but Allow Cross-Seeding and Coaggregation with A $\beta$ <sub>42</sub> . <i>Journal of the American Chemical Society</i> , 2015, 137, 14673-14685.	13.7	58
67	Sensitivity-Enhanced NMR Reveals Alterations in Protein Structure by Cellular Milieus. <i>Cell</i> , 2015, 163, 620-628.	28.9	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.	7.4	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.	4.4	36
70	Overhauser effects in insulating solids. <i>Journal of Chemical Physics</i> , 2014, 141, 064202.	3.0	152
71	Paramagnet induced signal quenching in MAS <sup>13</sup> C DNP experiments in frozen homogeneous solutions. <i>Journal of Magnetic Resonance</i> , 2014, 240, 113-123.	2.1	106
72	Topical Developments in High-Field Dynamic Nuclear Polarization. <i>Israel Journal of Chemistry</i> , 2014, 54, 207-221.	2.3	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.	6.0	68
74	Formation of organic molecular nanocrystals under rigid confinement with analysis by solid state NMR. <i>CrystEngComm</i> , 2014, 16, 9345-9352.	2.6	19
75	One-pot solvothermal synthesis of a well-ordered layered sodium aluminohydroxide complex: a useful precursor for the preparation of porous Al <sub>2</sub> O <sub>3</sub> particles. <i>CrystEngComm</i> , 2014, 16, 2950-2958.	2.6	6
76	Dynamic Nuclear Polarization of <sup>1</sup> H, <sup>13</sup> C, and <sup>59</sup> 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.	13.7	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.	13.7	30
78	DNP-Enhanced MAS NMR of Bovine Serum Albumin Sediments and Solutions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2957-2965.	2.6	36
79	High Field Dynamic Nuclear Polarization NMR with Surfactant Sheltered Biradicals. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1825-1830.	2.6	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.	13.7	254
81	Secondary Structure in the Core of Amyloid Fibrils Formed from Human I <sup>27</sup> m and its Truncated Variant I <sup>1-26</sup> N6. <i>Journal of the American Chemical Society</i> , 2014, 136, 6313-6325.	13.7	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.	2.1	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.	2.8	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.	7.1	479
85	Dynamic Nuclear Polarization Study of Inhibitor Binding to the M2 <sup>18-60</sup> Proton Transporter from Influenza A. <i>Biochemistry</i> , 2013, 52, 2774-2782.	2.5	66
86	Dynamic Nuclear Polarization of <sup>17</sup> O: Direct Polarization. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14894-14906.	2.6	62
87	Photonic-Band-Gap Traveling-Wave Gyrotron Amplifier. <i>Physical Review Letters</i> , 2013, 111, 235101.	7.8	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.	2.8	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.	13.7	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.	2.2	45

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91	High-Field <sup>13</sup> C Dynamic Nuclear Polarization with a Radical Mixture. Journal of the American Chemical Society, 2013, 135, 2935-2938.	13.7	62
92	High Frequency Dynamic Nuclear Polarization. Accounts of Chemical Research, 2013, 46, 1933-1941.	15.6	480
93	Dynamic Nuclear Polarization of Sedimented Solutes. Journal of the American Chemical Society, 2013, 135, 1641-1644.	13.7	56
94	Solvent-Free Dynamic Nuclear Polarization of Amorphous and Crystalline <i>ortho</i> -Terphenyl. Journal of Physical Chemistry B, 2013, 117, 3040-3046.	2.6	71
95	Observation of strongly forbidden solid effect dynamic nuclear polarization transitions via electron-electron double resonance detected NMR. Journal of Chemical Physics, 2013, 139, 214201.	3.0	11
96	Expanding the Repertoire of Amyloid Polymorphs by Co-polymerization of Related Protein Precursors. Journal of Biological Chemistry, 2013, 288, 7327-7337.	3.4	36
97	Solid effect in magic angle spinning dynamic nuclear polarization. Journal of Chemical Physics, 2012, 137, 054201.	3.0	65
98	Solid effect dynamic nuclear polarization and polarization pathways. Journal of Chemical Physics, 2012, 136, 015101.	3.0	99
99	An Amyloid Organelle, Solid-state NMR Evidence for Cross- $\beta^2$ Assembly of Gas Vesicles. Journal of Biological Chemistry, 2012, 287, 3479-3484.	3.4	33
100	Compensated second-order recoupling: application to third spin assisted recoupling. Physical Chemistry Chemical Physics, 2012, 14, 7246.	2.8	15
101	Lipid Dynamics and Protein-Lipid Interactions in 2D Crystals Formed with the $\beta^2$ -Barrel Integral Membrane Protein VDAC1. Journal of the American Chemical Society, 2012, 134, 6375-6387.	13.7	65
102	Magic-Angle-Spinning NMR of the Drug Resistant S31N M2 Proton Transporter from Influenza A. Journal of the American Chemical Society, 2012, 134, 7215-7218.	13.7	55
103	Water-Soluble Narrow-Line Radicals for Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2012, 134, 14287-14290.	13.7	87
104	A 250 GHz gyrotron with a 3 GHz tuning bandwidth for dynamic nuclear polarization. Journal of Magnetic Resonance, 2012, 221, 147-153.	2.1	87
105	A 140GHz pulsed EPR/212MHz NMR spectrometer for DNP studies. Journal of Magnetic Resonance, 2012, 223, 170-179.	2.1	37
106	Dynamic nuclear polarization at 700MHz/460GHz. Journal of Magnetic Resonance, 2012, 224, 1-7.	2.1	85
107	<sup>1</sup> H Dynamic Nuclear Polarization Based on an Endogenous Radical. Journal of Physical Chemistry B, 2012, 116, 7055-7065.	2.6	59
108	Dynamic Nuclear Polarization with a Water-Soluble Rigid Biradical. Journal of the American Chemical Society, 2012, 134, 4537-4540.	13.7	89

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109	Dynamic Nuclear Polarization of Oxygen-17. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2030-2034.	4.6	51
110	Rigid Orthogonal Bis-TEMPO Biradicals with Improved Solubility for Dynamic Nuclear Polarization. <i>Journal of Organic Chemistry</i> , 2012, 77, 1789-1797.	3.2	75
111	Deterministic schedules for robust and reproducible non-uniform sampling in multidimensional NMR. <i>Journal of Magnetic Resonance</i> , 2012, 214, 296-301.	2.1	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.	13.7	160
113	Quantum mechanical theory of dynamic nuclear polarization in solid dielectrics. <i>Journal of Chemical Physics</i> , 2011, 134, 125105.	3.0	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.	13.7	119
117	THz Dynamic Nuclear Polarization NMR. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2011, 1, 145-163.	3.1	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.	2.1	12
119	Dynamic nuclear polarization at 9T using a novel 250 Gyrotron microwave source. <i>Journal of Magnetic Resonance</i> , 2011, 213, 410-412.	2.1	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.	2.1	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.	3.0	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.	2.1	73
123	Proton-driven spin diffusion in rotating solids via reversible and irreversible quantum dynamics. <i>Journal of Chemical Physics</i> , 2011, 135, 134509.	3.0	31
124	Heteronuclear proton assisted recoupling. <i>Journal of Chemical Physics</i> , 2011, 134, 095101.	3.0	48
125	In situ High-Field Dynamic Nuclear Polarization—Direct and Indirect Polarization of $^{13}\text{C}$ nuclei. <i>ChemPhysChem</i> , 2010, 11, 999-1001.	2.1	46
126	Dynamic Nuclear Polarization of Deuterated Proteins. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7803-7806.	13.8	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.	13.8	35
128	DNP enhanced frequency-selective TEDOR experiments in bacteriorhodopsin. <i>Journal of Magnetic Resonance</i> , 2010, 202, 9-13.	2.1	51
129	Clear signals from surfaces. <i>Nature</i> , 2010, 468, 381-382.	27.8	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.	1.3	216
131	High field dynamic nuclear polarization—the renaissance. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5737.	2.8	188
132	Solid-State NMR Characterization of Gas Vesicle Structure. <i>Biophysical Journal</i> , 2010, 99, 1932-1939.	0.5	42
133	Intermolecular Alignment in $\beta$ -Microglobulin Amyloid Fibrils. <i>Journal of the American Chemical Society</i> , 2010, 132, 17077-17079.	13.7	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.	2.5	52
135	Magic Angle Spinning NMR Investigation of Influenza A M2 <sup>H2N</sup> : Support for an Allosteric Mechanism of Inhibition. <i>Journal of the American Chemical Society</i> , 2010, 132, 10958-10960.	13.7	82
136	Structural Characterization of GNNQQNY Amyloid Fibrils by Magic Angle Spinning NMR. <i>Biochemistry</i> , 2010, 49, 9457-9469.	2.5	66
137	Magic Angle Spinning NMR Analysis of $\beta$ -Microglobulin Amyloid Fibrils in Two Distinct Morphologies. <i>Journal of the American Chemical Society</i> , 2010, 132, 10414-10423.	13.7	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.	2.6	25
139	Resolution and polarization distribution in cryogenic DNP/MAS experiments. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5861.	2.8	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.	13.7	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.	2.8	62
143	<sup>2</sup> H-DNP-enhanced <sup>2</sup> H- <sup>13</sup> C solid-state NMR correlation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5872.	2.8	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.	2.8	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.	2.8	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.	3.0	10
147	Dipolar truncation in magic-angle spinning NMR recoupling experiments. <i>Journal of Chemical Physics</i> , 2009, 130, 114506.	3.0	162
148	Targeted <sup>13</sup> C- <sup>13</sup> C Distance Measurements in a Microcrystalline Protein via $\pi$ -Decoupled Rotational Resonance Width Measurements. <i>ChemPhysChem</i> , 2009, 10, 1656-1663.	2.1	11
149	Dynamic Nuclear Polarization with a Rigid Biradical. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4996-5000.	13.8	248
150	Long-Range Correlations between Aliphatic <sup>13</sup> C Nuclei in Protein MAS NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5708-5710.	13.8	35
151	Cryogenic sample exchange NMR probe for magic angle spinning dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2009, 198, 261-270.	2.1	108
152	Chemical shift anisotropy selective inversion. <i>Journal of Magnetic Resonance</i> , 2009, 200, 233-238.	2.1	2
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154	High-resolution solid-state NMR structure of Alanyl-Prolyl-Glycine. <i>Journal of Magnetic Resonance</i> , 2009, 200, 95-100.	2.1	11
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303	19F Shielding Tensors from Coherently Narrowed NMR Powder Spectra. Journal of Chemical Physics, 1971, 55, 746-755.	3.0	148
304	CW results of a 460 GHz second harmonic gyrotron oscillator - for sensitivity enhanced NMR. , 0, , .		1
305	CW second harmonic results at 460 GHz of a gyrotron oscillator - for sensitivity enhanced NMR. , 0, , .		2