Robert G Griffin

List of Publications by Year
in descending order

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		2565	5244
305	33,580	99	171
papers	citations	h-index	g-index

313	313	313	13856
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Heteronuclear decoupling in rotating solids. Journal of Chemical Physics, 1995, 103, 6951-6958.	1.2	2,064
2	Dynamic nuclear polarization at high magnetic fields. Journal of Chemical Physics, 2008, 128, 052211.	1.2	734
3	Chemical shift correlation spectroscopy in rotating solids: Radio frequencyâ€driven dipolar recoupling and longitudinal exchange. Journal of Chemical Physics, 1992, 96, 8624-8627.	1.2	704
4	Atomic Resolution Structure of Monomorphic AÎ²₄₂ Amyloid Fibrils. Journal of the American Chemical Society, 2016, 138, 9663-9674.	6.6	695
5	Rotational resonance in solid state NMR. Chemical Physics Letters, 1988, 146, 71-76.	1.2	579
6	Cross polarization in the tilted frame: assignment and spectral simplification in heteronuclear spin systems. Molecular Physics, 1998, 95, 1197-1207.	0.8	508
7	High-resolution molecular structure of a peptide in an amyloid fibril determined by magic angle spinning NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 711-716.	3.3	495
8	TOTAPOL: A Biradical Polarizing Agent for Dynamic Nuclear Polarization Experiments in Aqueous Media. Journal of the American Chemical Society, 2006, 128, 11385-11390.	6.6	487
9	Polarization-Enhanced NMR Spectroscopy of Biomolecules in Frozen Solution. Science, 1997, 276, 930-932.	6.0	484
10	High Frequency Dynamic Nuclear Polarization. Accounts of Chemical Research, 2013, 46, 1933-1941.	7.6	480
11	Atomic structure and hierarchical assembly of a cross-Î² amyloid fibril. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5468-5473.	3.3	479
12	SPINEVOLUTION: A powerful tool for the simulation of solid and liquid state NMR experiments. Journal of Magnetic Resonance, 2006, 178, 248-282.	1.2	446
13	Structural model for the Î²-amyloid fibril based on interstrand alignment of an antiparallel-sheet comprising a C-terminal peptide. Nature Structural and Molecular Biology, 1995, 2, 990-998.	3.6	423
14	Dynamic nuclear polarization with a cyclotron resonance maser at 5 T. Physical Review Letters, 1993, 71, 3561-3564.	2.9	417
15	Theory and simulations of homonuclear spin pair systems in rotating solids. Journal of Chemical Physics, 1990, 92, 6347-6364.	1.2	405
16	Rotary resonance recoupling of dipolar interactions in solidâ€state nuclear magnetic resonance spectroscopy. Journal of Chemical Physics, 1988, 89, 692-695.	1.2	374
17	Two-dimensional rotational spin-echo nuclear magnetic resonance in solids: correlation of chemical shift and dipolar interactions. Journal of the American Chemical Society, 1981, 103, 2529-2533.	6.6	360
18	Fivefold symmetric homonuclear dipolar recoupling in rotating solids: Application to double quantum spectroscopy. Journal of Chemical Physics, 1999, 110, 7983-7992.	1.2	356

#	Article	IF	Citations
19	Analysis of deuterium nuclear magnetic resonance line shapes in anisotropic media. Journal of Chemical Physics, 1987, 86, 5411-5420.	1.2	341
20	Homonuclear radio frequency-driven recoupling in rotating solids. Journal of Chemical Physics, 1998, 108, 9463-9479.	1.2	326
21	Dipolar recoupling in MAS spectra of biological solids. Nature Structural Biology, 1998, 5, 508-512.	9.7	321
22	Solid-state dynamic nuclear polarization at 263 GHz: spectrometer design and experimental results. Physical Chemistry Chemical Physics, 2010, 12, 5850.	1.3	315
23	Dark-adapted bacteriorhodopsin contains 13-cis, 15-syn and all-trans, 15-anti retinal Schiff bases.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 1706-1709.	3.3	302
24	Dynamic Nuclear Polarization with Biradicals. Journal of the American Chemical Society, 2004, 126, 10844-10845.	6.6	301
25	Determination of membrane protein structure by rotational resonance NMR: bacteriorhodopsin. Science, 1991, 251, 783-786.	6.0	300
26	High-Field Dynamic Nuclear Polarization for Solid and Solution Biological NMR. Applied Magnetic Resonance, 2008, 34, 237-263.	0.6	296
27	Functional and shunt states of bacteriorhodopsin resolved by 250 GHz dynamic nuclear polarizationâ€“enhanced solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9244-9249.	3.3	294
28	3D TEDOR NMR Experiments for the Simultaneous Measurement of Multiple Carbonâ”Nitrogen Distances in Uniformly 13C,15N-Labeled Solids. Journal of the American Chemical Society, 2002, 124, 10728-10742.	6.6	268
29	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 9162-9185.	7.2	258
30	Dynamic Nuclear Polarization of Amyloidogenic Peptide Nanocrystals:Â GNNQQNY, a Core Segment of the Yeast Prion Protein Sup35p. Journal of the American Chemical Society, 2006, 128, 10840-10846.	6.6	255
31	Rapid Proton-Detected NMR Assignment for Proteins with Fast Magic Angle Spinning. Journal of the American Chemical Society, 2014, 136, 12489-12497.	6.6	254
32	De novo determination of peptide structure with solid-state magic-angle spinning NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10260-10265.	3.3	253
33	Solid-state carbon-13 NMR detection of a perturbed 6-s-trans chromophore in bacteriorhodopsin. Biochemistry, 1985, 24, 6955-6962.	1.2	251
34	Molecular conformation of a peptide fragment of transthyretin in an amyloid fibril. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16748-16753.	3.3	249
35	Dynamic Nuclear Polarization with a Rigid Biradical. Angewandte Chemie - International Edition, 2009, 48, 4996-5000.	7.2	248
36	Frequency Selective Heteronuclear Dipolar Recoupling in Rotating Solids:Â Accurate13Câ”15N Distance Measurements in Uniformly13C,15N-labeled Peptides. Journal of the American Chemical Society, 2001, 123, 3507-3519.	6.6	245

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37	Highly branched and loop-rich gels via formation of metalâ€“organic cages linked by polymers. Nature Chemistry, 2016, 8, 33-41.	6.6	234
38	Site-Resolved Determination of Peptide Torsion Angle Ï† from the Relative Orientations of Backbone Nâ€²H and Câ€²H Bonds by Solid-State NMR. Journal of Physical Chemistry B, 1997, 101, 5869-5874.	1.2	219
39	Continuous-Wave Operation of a Frequency-Tunable 460-GHz Second-Harmonic Gyrotron for Enhanced Nuclear Magnetic Resonance. IEEE Transactions on Plasma Science, 2010, 38, 1150-1159.	0.6	216
40	Dynamic nuclear polarization at 9T using a novel 250GHz gyrotron microwave source. Journal of Magnetic Resonance, 2003, 160, 85-90.	1.2	209
41	High field dynamic nuclear polarizationâ€”the renaissance. Physical Chemistry Chemical Physics, 2010, 12, 5737.	1.3	188
42	Energy transformations early in the bacteriorhodopsin photocycle revealed by DNP-enhanced solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 883-888.	3.3	187
43	Nuclear magnetic resonance study of the Schiff base in bacteriorhodopsin: counterion effects on the nitrogen-15 shift anisotropy. Biochemistry, 1989, 28, 3346-3353.	1.2	186
44	Investigation of the surface morphology of capped CdSe nanocrystallites by 31P nuclear magnetic resonance. Journal of Chemical Physics, 1994, 100, 3297-3300.	1.2	184
45	Proton assisted recoupling and protein structure determination. Journal of Chemical Physics, 2008, 129, 245101.	1.2	183
46	Second Harmonic Operation at 460 GHz and Broadband Continuous Frequency Tuning of a Gyrotron Oscillator. IEEE Transactions on Electron Devices, 2005, 52, 798-807.	1.6	182
47	Quantitative Multiple-Quantum Magic-Angle-Spinning NMR Spectroscopy of Quadrupolar Nuclei in Solids. Journal of the American Chemical Society, 1996, 118, 9326-9332.	6.6	181
48	Solid-State NMR Study of Amyloid Nanocrystals and Fibrils Formed by the Peptide GNNQQNY from Yeast Prion Protein Sup35p. Journal of the American Chemical Society, 2007, 129, 5117-5130.	6.6	177
49	High frequency (140 GHz) dynamic nuclear polarization: Polarization transfer to a solute in frozen aqueous solution. Journal of Chemical Physics, 1995, 102, 9494-9497.	1.2	174
50	Efficient Dynamic Nuclear Polarization at 800â€…MHz/527â€…GHz with Tritylâ€Nitroxide Biradicals. Angewandte Chemie - International Edition, 2015, 54, 11770-11774.	7.2	172
51	Twoâ€dimensional nuclear magnetic resonance in rotating solids: An analysis of line shapes in chemical shiftâ€dipolar spectra. Journal of Chemical Physics, 1982, 76, 2848-2858.	1.2	171
52	Internuclear distance measurements in solid state nuclear magnetic resonance: Dipolar recoupling via rotor synchronized spin locking. Journal of Chemical Physics, 1995, 102, 702-707.	1.2	167
53	High-frequency dynamic nuclear polarization using biradicals: A multifrequency EPR lineshape analysis. Journal of Chemical Physics, 2008, 128, 052302.	1.2	164
54	A Spectrometer for Dynamic Nuclear Polarization and Electron Paramagnetic Resonance at High Frequencies. Journal of Magnetic Resonance Series A, 1995, 117, 28-40.	1.6	163

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55	Proton Assisted Insensitive Nuclei Cross Polarization. Journal of the American Chemical Society, 2007, 129, 728-729.	6.6	163
56	Dipolar truncation in magic-angle spinning NMR recoupling experiments. Journal of Chemical Physics, 2009, 130, 114506.	1.2	162
57	THz Dynamic Nuclear Polarization NMR. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 145-163.	2.0	161
58	Intermolecular Structure Determination of Amyloid Fibrils with Magic-Angle Spinning and Dynamic Nuclear Polarization NMR. Journal of the American Chemical Society, 2011, 133, 13967-13974.	6.6	160
59	Solid-State Nitrogen- 15 Nuclear Magnetic Resonance Study of the Schiff Base in Bacteriorhodopsin. Biochemistry, 1983, 22, 1-5.	1.2	158
60	250GHz CW gyrotron oscillator for dynamic nuclear polarization in biological solid state NMR. Journal of Magnetic Resonance, 2007, 189, 251-279.	1.2	158
61	Operation of a Continuously Frequency-Tunable Second-Harmonic CW 330-GHz Gyrotron for Dynamic Nuclear Polarization. IEEE Transactions on Electron Devices, 2011, 58, 2777-2783.	1.6	157
62	Dynamic Nuclear Polarization of Deuterated Proteins. Angewandte Chemie - International Edition, 2010, 49, 7803-7806.	7.2	154
63	Overhauser effects in insulating solids. Journal of Chemical Physics, 2014, 141, 064202.	1.2	152
64	1Hâ€“1H MAS Correlation Spectroscopy and Distance Measurements in a Deuterated Peptide. Journal of Magnetic Resonance, 2001, 151, 320-327.	1.2	149
65	19F Shielding Tensors from Coherently Narrowed NMR Powder Spectra. Journal of Chemical Physics, 1971, 55, 746-755.	1.2	148
66	Rotary Resonance Recoupling in Heteronuclear Spin Pair Systems. Israel Journal of Chemistry, 1988, 28, 271-282.	1.0	144
67	Recoupling of Homo- and Heteronuclear Dipolar Interactions in Rotating Solids. Nmr, 1994, , 1-77.	0.5	143
68	2D and 3D15Nâ^'13Câ^'13C NMR Chemical Shift Correlation Spectroscopy of Solids:Â Assignment of MAS Spectra of Peptides. Journal of the American Chemical Society, 2000, 122, 10979-10990.	6.6	135
69	Efficient Multispin Homonuclear Double-Quantum Recoupling for Magic-Angle Spinning NMR:â€‰ 13Câ^'13C Correlation Spectroscopy of U-13C-Erythromycin A. Journal of the American Chemical Society, 1998, 120, 10602-10612.	6.6	134
70	Quantum mechanical theory of dynamic nuclear polarization in solid dielectrics. Journal of Chemical Physics, 2011, 134, 125105.	1.2	133
71	Rotational jumps of the tyrosine side chain in crystalline enkephalin. Hydrogen-2 NMR line shapes for aromatic ring motions in solids. Journal of the American Chemical Society, 1981, 103, 7707-7710.	6.6	132
72	Rotational Resonance Solid-State NMR Elucidates a Structural Model of Pancreatic Amyloid. Journal of the American Chemical Society, 1995, 117, 3539-3546.	6.6	130

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73	Continuous-wave operation of a 460-GHz second harmonic gyrotron oscillator. IEEE Transactions on Plasma Science, 2006, 34, 524-533.	0.6	128
74	Magic Angle Spinning NMR of Proteins: High-Frequency Dynamic Nuclear Polarization and ¹H Detection. Annual Review of Biochemistry, 2015, 84, 465-497.	5.0	128
75	Measurement of heteronuclear bond distances in polycrystalline solids by solid-state NMR techniques. Journal of the American Chemical Society, 1987, 109, 4163-4169.	6.6	127
76	Deuterium NMR study of methyl group dynamics inLâ€alanine. Journal of Chemical Physics, 1987, 86, 4730-4736.	1.2	126
77	High-frequency dynamic nuclear polarization using mixtures of TEMPO and trityl radicals. Journal of Chemical Physics, 2007, 126, 044512.	1.2	126
78	Sensitivity-Enhanced NMR Reveals Alterations in Protein Structure by Cellular Milieus. Cell, 2015, 163, 620-628.	13.5	126
79	The structure of a Î²2-microglobulin fibril suggests a molecular basis for its amyloid polymorphism. Nature Communications, 2018, 9, 4517.	5.8	124
80	Dynamic DMF Binding in MOF-5 Enables the Formation of Metastable Cobalt-Substituted MOF-5 Analogues. ACS Central Science, 2015, 1, 252-260.	5.3	123
81	1H detected 1H,15N correlation spectroscopy in rotating solids. Journal of Magnetic Resonance, 2003, 160, 78-83.	1.2	122
82	Resonance Assignments for Solid Peptides by Dipolar-Mediated13C/15N Correlation Solid-State NMR. Journal of the American Chemical Society, 1998, 120, 7113-7114.	6.6	121
83	High-Field Dynamic Nuclear Polarization with High-Spin Transition Metal Ions. Journal of the American Chemical Society, 2011, 133, 5648-5651.	6.6	119
84	One-pot synthesis of MWW zeolite nanosheets using a rationally designed organic structure-directing agent. Chemical Science, 2015, 6, 6320-6324.	3.7	118
85	High-Resolution Solid-State NMR Structure of a 17.6 kDa Protein. Journal of the American Chemical Society, 2010, 132, 1032-1040.	6.6	117
86	Dynamic nuclear polarization-enhanced solid-state NMR spectroscopy of GNNQQNY nanocrystals and amyloid fibrils. Physical Chemistry Chemical Physics, 2010, 12, 5911.	1.3	114
87	Nuclear magnetic resonance methods for measuring dipolar couplings in rotating solids. Analytica Chimica Acta, 1993, 283, 1081-1101.	2.6	113
88	Acid-base and tautomeric equilibriums in the solid state: nitrogen-15 NMR spectroscopy of histidine and imidazole. Journal of the American Chemical Society, 1982, 104, 1192-1196.	6.6	112
89	Mechanisms of dynamic nuclear polarization in insulating solids. Journal of Magnetic Resonance, 2015, 253, 23-35.	1.2	110
90	Low-temperature solid-state carbon-13 NMR studies of the retinal chromophore in rhodopsin. Biochemistry, 1987, 26, 1606-1611.	1.2	108

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91	Cryogenic sample exchange NMR probe for magic angle spinning dynamic nuclear polarization. Journal of Magnetic Resonance, 2009, 198, 261-270.	1.2	108
92	High-Frequency Dynamic Nuclear Polarization in MAS Spectra of Membrane and Soluble Proteins. Journal of the American Chemical Society, 2003, 125, 13626-13627.	6.6	107
93	Paramagnet induced signal quenching in MASâ€“DNP experiments in frozen homogeneous solutions. Journal of Magnetic Resonance, 2014, 240, 113-123.	1.2	106
94	An unusual peptide conformation may precipitate amyloid formation in Alzheimer's disease: application of solid-state NMR to the determination of protein secondary structure. Biochemistry, 1991, 30, 10382-10387.	1.2	103
95	Recoupling of Heteronuclear Dipolar Interactions with Rotational-Echo Double-Resonance at High Magic-Angle Spinning Frequencies. Journal of Magnetic Resonance, 2000, 146, 132-139.	1.2	103
96	High Resolution Structural Characterization of AÎ²₄₂ Amyloid Fibrils by Magic Angle Spinning NMR. Journal of the American Chemical Society, 2015, 137, 7509-7518.	6.6	103
97	Structure and Mechanism of the Influenza A M2_{18â€“60} Dimer of Dimers. Journal of the American Chemical Society, 2015, 137, 14877-14886.	6.6	103
98	Observation of the effect of water on the phosphorus-31 nuclear magnetic resonance spectra of dipalmitoyllecithin. Journal of the American Chemical Society, 1976, 98, 851-853.	6.6	102
99	Pulsed Electron-Nuclear Double Resonance (ENDOR) at 140 GHz. Journal of Magnetic Resonance, 1999, 138, 232-243.	1.2	102
100	Mechanism of dynamic nuclear polarization in high magnetic fields. Journal of Chemical Physics, 2001, 114, 4922-4933.	1.2	101
101	Photonic-Band-Gap Traveling-Wave Gyrotron Amplifier. Physical Review Letters, 2013, 111, 235101.	2.9	100
102	In Situ Temperature Jump High-Frequency Dynamic Nuclear Polarization Experiments:Â Enhanced Sensitivity in Liquid-State NMR Spectroscopy. Journal of the American Chemical Society, 2006, 128, 9428-9432.	6.6	99
103	Solid effect dynamic nuclear polarization and polarization pathways. Journal of Chemical Physics, 2012, 136, 015101.	1.2	99
104	Measurement of internuclear distances in polycrystalline solids. Rotationally enhanced transfer of nuclear spin magnetization. Journal of the American Chemical Society, 1989, 111, 4502-4503.	6.6	96
105	Rotational resonance NMR study of the active site structure in bacteriorhodopsin: conformation of the Schiff base linkage. Biochemistry, 1992, 31, 7931-7938.	1.2	96
106	Sensitivity-Enhanced NMR of Biological Solids:Â Dynamic Nuclear Polarization of Y21M fd Bacteriophage and Purple Membrane. Journal of the American Chemical Society, 2001, 123, 1010-1011.	6.6	94
107	Rotational Resonance Tickling:â€‰Accurate Internuclear Distance Measurement in Solids. Journal of the American Chemical Society, 1997, 119, 10821-10830.	6.6	91
108	Interrogating the Lewis Acidity of Metal Sites in Beta Zeolites with ¹⁵N Pyridine Adsorption Coupled with MAS NMR Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 28533-28544.	1.5	91

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109	Dynamic Nuclear Polarization with a Water-Soluble Rigid Biradical. Journal of the American Chemical Society, 2012, 134, 4537-4540.	6.6	89
110	High-Field DNP and ENDOR with a Novel Multiple-Frequency Resonance Structure. Journal of Magnetic Resonance, 1999, 140, 293-299.	1.2	88
111	Broad band dipolar recoupling in the nuclear magnetic resonance of rotating solids. Journal of Chemical Physics, 1993, 98, 6742-6748.	1.2	87
112	Resolution and polarization distribution in cryogenic DNP/MAS experiments. Physical Chemistry Chemical Physics, 2010, 12, 5861.	1.3	87
113	Water-Soluble Narrow-Line Radicals for Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2012, 134, 14287-14290.	6.6	87
114	A 250 GHz gyrotron with a 3 GHz tuning bandwidth for dynamic nuclear polarization. Journal of Magnetic Resonance, 2012, 221, 147-153.	1.2	87
115	Dynamic nuclear polarization at 700MHz/460GHz. Journal of Magnetic Resonance, 2012, 224, 1-7.	1.2	85
116	Solid-state NMR detection of proton exchange between the bacteriorhodopsin Schiff base and bulk water. Journal of the American Chemical Society, 1988, 110, 7221-7223.	6.6	84
117	Magic Angle Spinning NMR Investigation of Influenza A M2_{18â^'60}: Support for an Allosteric Mechanism of Inhibition. Journal of the American Chemical Society, 2010, 132, 10958-10960.	6.6	82
118	Higher Order Amyloid Fibril Structure by MAS NMR and DNP Spectroscopy. Journal of the American Chemical Society, 2013, 135, 19237-19247.	6.6	82
119	3D15Nâ^'13Câ^'13C Chemical Shift Correlation Spectroscopy in Rotating Solids. Journal of the American Chemical Society, 1997, 119, 8540-8546.	6.6	81
120	Measurement of13Câ^'15N Distances in Uniformly13C Labeled Biomolecules:ÂJ-Decoupled REDOR. Journal of the American Chemical Society, 1999, 121, 10237-10238.	6.6	81
121	Two-dimensional solid-state proton NMR and proton exchange. Journal of the American Chemical Society, 1993, 115, 6254-6261.	6.6	80
122	Observation of a Low-Temperature, Dynamically Driven Structural Transition in a Polypeptide by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 118-128.	6.6	79
123	Magic Angle Spinning NMR Analysis of Î²₂-Microglobulin Amyloid Fibrils in Two Distinct Morphologies. Journal of the American Chemical Society, 2010, 132, 10414-10423.	6.6	79
124	Molecular Dynamics and Magic Angle Spinning NMR. Journal of the American Chemical Society, 1994, 116, 11950-11956.	6.6	78
125	High-resolution oxygen-17 NMR spectroscopy of solids by multiple-quantum magic-angle-spinning. Chemical Physics Letters, 1997, 277, 79-83.	1.2	78
126	NHâ€“NH Vector Correlation in Peptides by Solid-State NMR. Journal of Magnetic Resonance, 2000, 145, 132-141.	1.2	76

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127	Gd(<scp>iii</scp>) and Mn(<scp>ii</scp>) complexes for dynamic nuclear polarization: small molecular chelate polarizing agents and applications with site-directed spin labeling of proteins. Physical Chemistry Chemical Physics, 2016, 18, 27205-27218.	1.3	76
128	Efficient cross-effect dynamic nuclear polarization without depolarization in high-resolution MAS NMR. Chemical Science, 2017, 8, 8150-8163.	3.7	76
129	Rigid Orthogonal Bis-TEMPO Biradicals with Improved Solubility for Dynamic Nuclear Polarization. Journal of Organic Chemistry, 2012, 77, 1789-1797.	1.7	75
130	Early and Late M Intermediates in the Bacteriorhodopsin Photocycle:Â A Solid-State NMR Studyâ€. Biochemistry, 1998, 37, 8088-8096.	1.2	73
131	Corrugated waveguide and directional coupler for CW 250-GHz gyrotron DNP experiments. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1863-1869.	2.9	73
132	Radio frequency-driven recoupling at high magic-angle spinning frequencies: Homonuclear recoupling sans heteronuclear decoupling. Journal of Chemical Physics, 2008, 128, 052321.	1.2	73
133	Microwave field distribution in a magic angle spinning dynamic nuclear polarization NMR probe. Journal of Magnetic Resonance, 2011, 210, 16-23.	1.2	73
134	Band-selective homonuclear dipolar recoupling in rotating solids. Journal of Chemical Physics, 2002, 117, 4973-4987.	1.2	72
135	Solvent-Free Dynamic Nuclear Polarization of Amorphous and Crystalline ortho-Terphenyl. Journal of Physical Chemistry B, 2013, 117, 3040-3046.	1.2	71
136	The Predischarge Chromophore in Bacteriorhodopsin:â€‰ A 15N Solid-State NMR Study of the L Photointermediate. Biochemistry, 1997, 36, 9316-9322.	1.2	70
137	Two-dimensional heteronuclear chemical shift correlation spectroscopy in rotating solids. Journal of the American Chemical Society, 1984, 106, 2506-2512.	6.6	69
138	Intermolecular Alignment in Î²₂-Microglobulin Amyloid Fibrils. Journal of the American Chemical Society, 2010, 132, 17077-17079.	6.6	69
139	Radio-frequency-mediated dipolar recoupling among half-integer quadrupolar spins. Journal of Chemical Physics, 2000, 112, 5902-5909.	1.2	68
140	Distinct Prion Strains Are Defined by Amyloid Core Structure and Chaperone Binding Site Dynamics. Chemistry and Biology, 2014, 21, 295-305.	6.2	68
141	Structural Characterization of GNNQQNY Amyloid Fibrils by Magic Angle Spinning NMR. Biochemistry, 2010, 49, 9457-9469.	1.2	66
142	Dynamic Nuclear Polarization Study of Inhibitor Binding to the M2_{18â€“60} Proton Transporter from Influenza A. Biochemistry, 2013, 52, 2774-2782.	1.2	66
143	Time domain DNP with the NOVEL sequence. Journal of Chemical Physics, 2015, 143, 054201.	1.2	66
144	Solid-State nuclear magnetic resonance investigation of solvent dependence of tyrosyl ring motion in an enzyme. Biotechnology and Bioengineering, 1993, 42, 87-94.	1.7	65

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145	Solid effect in magic angle spinning dynamic nuclear polarization. Journal of Chemical Physics, 2012, 137, 054201.	1.2	65
146	Lipid Dynamics and Proteinâ€“Lipid Interactions in 2D Crystals Formed with the Î²-Barrel Integral Membrane Protein VDAC1. Journal of the American Chemical Society, 2012, 134, 6375-6387.	6.6	65
147	Operational characteristics of a 14-W 140-GHz gyrotron for dynamic nuclear polarization. IEEE Transactions on Plasma Science, 2006, 34, 518-523.	0.6	64
148	Dynamic Nuclear Polarization of ¹H, ¹³C, and ⁵⁹Co in a Tris(ethylenediamine)cobalt(III) Crystalline Lattice Doped with Cr(III). Journal of the American Chemical Society, 2014, 136, 11716-11727.	6.6	64
149	Synergy in the spectral tuning of retinal pigments: complete accounting of the opsin shift in bacteriorhodopsin.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 8880-8884.	3.3	63
150	Efficient Low-Voltage Operation of a CW Gyrotron Oscillator at 233 GHz. IEEE Transactions on Plasma Science, 2007, 35, 27-30.	0.6	63
151	Proton Assisted Recoupling at High Spinning Frequencies. Journal of Physical Chemistry B, 2009, 113, 9062-9069.	1.2	63
152	Combining DNP NMR with segmental and specific labeling to study a yeast prion protein strain that is not parallel in-register. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3642-3647.	3.3	63
153	Cross polarization in the tilted frame: assignment and spectral simplification in heteronuclear spin systems. , 0, .		63
154	Dipolar Correlation NMR Spectroscopy of a Membrane Protein. Journal of the American Chemical Society, 1994, 116, 10178-10181.	6.6	62
155	Properties of dinitroxides for use in dynamic nuclear polarization (DNP). Physical Chemistry Chemical Physics, 2010, 12, 5841.	1.3	62
156	Dynamic Nuclear Polarization of17O: Direct Polarization. Journal of Physical Chemistry B, 2013, 117, 14894-14906.	1.2	62
157	High-Field ¹³C Dynamic Nuclear Polarization with a Radical Mixture. Journal of the American Chemical Society, 2013, 135, 2935-2938.	6.6	62
158	Synthesis of a BDPA-TEMPO Biradical. Organic Letters, 2009, 11, 1871-1874.	2.4	61
159	13C chemical shielding in oxalic acid, oxalic acid dihydrate, and diammonium oxalate. Journal of Chemical Physics, 1975, 63, 1267-1271.	1.2	60
160	Tyrosyl motion in peptides. Deuterium NMR line shapes and spin-lattice relaxation. Journal of the American Chemical Society, 1987, 109, 1636-1640.	6.6	60
161	Peptide and Protein Dynamics and Low-Temperature/DNP Magic Angle Spinning NMR. Journal of Physical Chemistry B, 2017, 121, 4997-5006.	1.2	60
162	Two-Dimensional 13Câ^'13C Correlation Spectroscopy with Magic Angle Spinning and Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2002, 124, 3214-3215.	6.6	59

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163	¹H Dynamic Nuclear Polarization Based on an Endogenous Radical. Journal of Physical Chemistry B, 2012, 116, 7055-7065.	1.2	59
164	13Câ^'13C Rotational Resonance Width Distance Measurements in Uniformly 13C-Labeled Peptides. Journal of the American Chemical Society, 2003, 125, 15623-15629.	6.6	58
165	N-Terminal Extensions Retard AÎ²42 Fibril Formation but Allow Cross-Seeding and Coaggregation with AÎ²42. Journal of the American Chemical Society, 2015, 137, 14673-14685.	6.6	58
166	Backbone and side chain assignment strategies for multiply labeled membrane peptides and proteins in the solid state. Journal of Magnetic Resonance, 2003, 160, 1-12.	1.2	57
167	Determination of Peptide Amide Configuration in a Model Amyloid Fibril by Solid-State NMR. Journal of the American Chemical Society, 1997, 119, 10487-10493.	6.6	56
168	¹⁵Nâ^'¹⁵N Proton Assisted Recoupling in Magic Angle Spinning NMR. Journal of the American Chemical Society, 2009, 131, 5769-5776.	6.6	56
169	Dynamic Nuclear Polarization of Sedimented Solutes. Journal of the American Chemical Society, 2013, 135, 1641-1644.	6.6	56
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