

# Robert G Griffin

## List of Publications by Citations

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302  
papers

29,585  
citations

93  
h-index

162  
g-index

313  
ext. papers

31,785  
ext. citations

7.9  
avg, IF

6.93  
L-index

#	Paper	IF	Citations
302	Heteronuclear decoupling in rotating solids. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 6951-6958	3.9	1923
301	Chemical shift correlation spectroscopy in rotating solids: Radio frequency-driven dipolar recoupling and longitudinal exchange. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 8624-8627	3.9	642
300	Dynamic nuclear polarization at high magnetic fields. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 052211	3.9	638
299	Rotational resonance in solid state NMR. <i>Chemical Physics Letters</i> , <b>1988</b> , 146, 71-76	2.5	541
298	Atomic Resolution Structure of Monomorphic A $\beta$ 2 Amyloid Fibrils. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 9663-74	16.4	537
297	High-resolution molecular structure of a peptide in an amyloid fibril determined by magic angle spinning NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 711-6	11.5	461
296	TOTAPOL: a biradical polarizing agent for dynamic nuclear polarization experiments in aqueous media. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 11385-90	16.4	443
295	Cross polarization in the tilted frame: assignment and spectral simplification in heteronuclear spin systems. <i>Molecular Physics</i> , <b>1998</b> , 95, 1197-1207	1.7	434
294	Polarization-enhanced NMR spectroscopy of biomolecules in frozen solution. <i>Science</i> , <b>1997</b> , 276, 930-2	33.3	420
293	High frequency dynamic nuclear polarization. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 1933-41	24.3	409
292	SPINEVOLUTION: a powerful tool for the simulation of solid and liquid state NMR experiments. <i>Journal of Magnetic Resonance</i> , <b>2006</b> , 178, 248-82	3	405
291	Atomic structure and hierarchical assembly of a cross- $\beta$ amyloid fibril. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5468-73	11.5	401
290	Structural model for the beta-amyloid fibril based on interstrand alignment of an antiparallel-sheet comprising a C-terminal peptide. <i>Nature Structural and Molecular Biology</i> , <b>1995</b> , 2, 990-8	17.6	398
289	Theory and simulations of homonuclear spin pair systems in rotating solids. <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 6347-6364	3.9	369
288	Dynamic nuclear polarization with a cyclotron resonance maser at 5 T. <i>Physical Review Letters</i> , <b>1993</b> , 71, 3561-3564	7.4	357
287	Rotary resonance recoupling of dipolar interactions in solid-state nuclear magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 692-695	3.9	347
286	Fivefold symmetric homonuclear dipolar recoupling in rotating solids: Application to double quantum spectroscopy. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 7983-7992	3.9	322

285	Two-dimensional rotational spin-echo nuclear magnetic resonance in solids: correlation of chemical shift and dipolar interactions. <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 2529-2533	16.4	317
284	Analysis of deuterium nuclear magnetic resonance line shapes in anisotropic media. <i>Journal of Chemical Physics</i> , <b>1987</b> , 86, 5411-5420	3.9	302
283	Homonuclear radio frequency-driven recoupling in rotating solids. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 9463-9479	3.9	300
282	Dipolar recoupling in MAS spectra of biological solids. <i>Nature Structural Biology</i> , <b>1998</b> , 5 Suppl, 508-12		294
281	Dark-adapted bacteriorhodopsin contains 13-cis, 15-syn and all-trans, 15-anti retinal Schiff bases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1984</b> , 81, 1706-9	11.5	287
280	Determination of membrane protein structure by rotational resonance NMR: bacteriorhodopsin. <i>Science</i> , <b>1991</b> , 251, 783-6	33.3	284
279	Solid-state dynamic nuclear polarization at 263 GHz: spectrometer design and experimental results. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5850-60	3.6	279
278	Functional and shunt states of bacteriorhodopsin resolved by 250 GHz dynamic nuclear polarization-enhanced solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 9244-9	11.5	276
277	High-Field Dynamic Nuclear Polarization for Solid and Solution Biological NMR. <i>Applied Magnetic Resonance</i> , <b>2008</b> , 34, 237-263	0.8	266
276	Dynamic nuclear polarization with biradicals. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 10844-10846	16.4	254
275	Solid-state <sup>13</sup> C NMR detection of a perturbed 6-s-trans chromophore in bacteriorhodopsin. <i>Biochemistry</i> , <b>1985</b> , 24, 6955-62	3.2	235
274	Molecular conformation of a peptide fragment of transthyretin in an amyloid fibril. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 16748-53	11.5	234
273	De novo determination of peptide structure with solid-state magic-angle spinning NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 10260-5	11.5	232
272	Dynamic nuclear polarization with a rigid biradical. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4996-5000	16.4	230
271	3D TEDOR NMR experiments for the simultaneous measurement of multiple carbon-nitrogen distances in uniformly ( <sup>13</sup> C, <sup>15</sup> N)-labeled solids. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 10728-42	16.4	227
270	Frequency selective heteronuclear dipolar recoupling in rotating solids: accurate ( <sup>13</sup> C)-( <sup>15</sup> N) distance measurements in uniformly ( <sup>13</sup> C, <sup>15</sup> N)-labeled peptides. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 3507-19	16.4	222
269	Dynamic nuclear polarization of amyloidogenic peptide nanocrystals: GNNQQNY, a core segment of the yeast prion protein Sup35p. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10840-6	16.4	221
268	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9162-85	16.4	208

267	Site-Resolved Determination of Peptide Torsion Angle [From the Relative Orientations of Backbone N <sup>H</sup> and C <sup>H</sup> Bonds by Solid-State NMR. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 5869-5874	3.4	208
266	Rapid proton-detected NMR assignment for proteins with fast magic angle spinning. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 12489-97	16.4	205
265	Dynamic nuclear polarization at 9T using a novel 250GHz gyrotron microwave source. <i>Journal of Magnetic Resonance</i> , <b>2003</b> , 160, 85-90	3	186
264	Highly branched and loop-rich gels via formation of metal-organic cages linked by polymers. <i>Nature Chemistry</i> , <b>2016</b> , 8, 33-41	17.6	179
263	Energy transformations early in the bacteriorhodopsin photocycle revealed by DNP-enhanced solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 883-8	11.5	178
262	Nuclear magnetic resonance study of the Schiff base in bacteriorhodopsin: counterion effects on the <sup>15</sup> N shift anisotropy. <i>Biochemistry</i> , <b>1989</b> , 28, 3346-53	3.2	174
261	Quantitative Multiple-Quantum Magic-Angle-Spinning NMR Spectroscopy of Quadrupolar Nuclei in Solids. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 9326-9332	16.4	170
260	Continuous-Wave Operation of a Frequency-Tunable 460-GHz Second-Harmonic Gyrotron for Enhanced Nuclear Magnetic Resonance. <i>IEEE Transactions on Plasma Science</i> , <b>2010</b> , 38, 1150-1160	1.3	164
259	Proton assisted recoupling and protein structure determination. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 245101	3.9	164
258	Investigation of the surface morphology of capped CdSe nanocrystallites by <sup>31</sup> P nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 3297-3300	3.9	164
257	Solid-state NMR study of amyloid nanocrystals and fibrils formed by the peptide GNNQQNY from yeast prion protein Sup35p. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 5117-30	16.4	160
256	Two-dimensional nuclear magnetic resonance in rotating solids: An analysis of line shapes in chemical shift-dipolar spectra. <i>Journal of Chemical Physics</i> , <b>1982</b> , 76, 2848-2858	3.9	160
255	High frequency (140 GHz) dynamic nuclear polarization: Polarization transfer to a solute in frozen aqueous solution. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 9494-9497	3.9	157
254	. <i>IEEE Transactions on Electron Devices</i> , <b>2005</b> , 52, 798-807	2.9	156
253	Internuclear distance measurements in solid state nuclear magnetic resonance: Dipolar recoupling via rotor synchronized spin locking. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 702-707	3.9	156
252	High-frequency dynamic nuclear polarization using biradicals: a multifrequency EPR lineshape analysis. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 052302	3.9	153
251	A Spectrometer for Dynamic Nuclear Polarization and Electron Paramagnetic Resonance at High Frequencies. <i>Journal of Magnetic Resonance Series A</i> , <b>1995</b> , 117, 28-40		151
250	Proton assisted insensitive nuclei cross polarization. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 728-9	16.4	147

249	Intermolecular structure determination of amyloid fibrils with magic-angle spinning and dynamic nuclear polarization NMR. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13967-74	16.4	146
248	Solid-state nitrogen-15 nuclear magnetic resonance study of the Schiff base in bacteriorhodopsin. <i>Biochemistry</i> , <b>1983</b> , 22, 1-4	3.2	146
247	Dipolar truncation in magic-angle spinning NMR recoupling experiments. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 114506	3.9	144
246	250GHz CW gyrotron oscillator for dynamic nuclear polarization in biological solid state NMR. <i>Journal of Magnetic Resonance</i> , <b>2007</b> , 189, 251-79	3	140
245	Dynamic nuclear polarization of deuterated proteins. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7803-6	16.4	138
244	<sup>1</sup> H- <sup>1</sup> H MAS correlation spectroscopy and distance measurements in a deuterated peptide. <i>Journal of Magnetic Resonance</i> , <b>2001</b> , 151, 320-7	3	136
243	Rotary Resonance Recoupling in Heteronuclear Spin Pair Systems. <i>Israel Journal of Chemistry</i> , <b>1988</b> , 28, 271-282	3.4	135
242	<sup>19</sup> F Shielding Tensors from Coherently Narrowed NMR Powder Spectra. <i>Journal of Chemical Physics</i> , <b>1971</b> , 55, 746-755	3.9	135
241	Efficient Dynamic Nuclear Polarization at 800 MHz/527 GHz with Trityl-Nitroxide Biradicals. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11770-4	16.4	133
240	Overhauser effects in insulating solids. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 064202	3.9	128
239	Efficient Multispin Homonuclear Double-Quantum Recoupling for Magic-Angle Spinning NMR: <sup>13</sup> C- <sup>13</sup> C Correlation Spectroscopy of U- <sup>13</sup> C-Erythromycin A. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 10602-10612	16.4	128
238	Recoupling of Homo- and Heteronuclear Dipolar Interactions in Rotating Solids. <i>Nmr</i> , <b>1994</b> , 1-77		127
237	Rotational Resonance Solid-State NMR Elucidates a Structural Model of Pancreatic Amyloid. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 3539-3546	16.4	124
236	Operation of a Continuously Frequency-Tunable Second-Harmonic CW 330-GHz Gyrotron for Dynamic Nuclear Polarization. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 2777-2783	2.9	122
235	2D and 3D <sup>15</sup> N- <sup>13</sup> C- <sup>13</sup> C NMR Chemical Shift Correlation Spectroscopy of Solids: Assignment of MAS Spectra of Peptides. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 10979-10990	16.4	122
234	THz Dynamic Nuclear Polarization NMR. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2011</b> , 1, 145-163	3.4	120
233	Rotational jumps of the tyrosine side chain in crystalline enkephalin. Hydrogen-2 NMR line shapes for aromatic ring motions in solids. <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 7707-7710	16.4	118
232	Quantum mechanical theory of dynamic nuclear polarization in solid dielectrics. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 125105	3.9	117

231	Measurement of heteronuclear bond distances in polycrystalline solids by solid-state NMR techniques. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 4163-4169	16.4	116
230	Resonance Assignments for Solid Peptides by Dipolar-Mediated <sup>13</sup> C/ <sup>15</sup> N Correlation Solid-State NMR. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 7113-7114	16.4	113
229	High-frequency dynamic nuclear polarization using mixtures of TEMPO and trityl radicals. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 044512	3.9	112
228	High-resolution solid-state NMR structure of a 17.6 kDa protein. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1032-40	16.4	110
227	Dynamic nuclear polarization-enhanced solid-state NMR spectroscopy of GNNQQNY nanocrystals and amyloid fibrils. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5911-9	3.6	110
226	Deuterium NMR study of methyl group dynamics in L-alanine. <i>Journal of Chemical Physics</i> , <b>1987</b> , 86, 4730-4736	3.9	109
225	High-field dynamic nuclear polarization with high-spin transition metal ions. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5648-51	16.4	108
224	<sup>1</sup> H detected <sup>1</sup> H, <sup>15</sup> N correlation spectroscopy in rotating solids. <i>Journal of Magnetic Resonance</i> , <b>2003</b> , 160, 78-83	3	108
223	Nuclear magnetic resonance methods for measuring dipolar couplings in rotating solids. <i>Analytica Chimica Acta</i> , <b>1993</b> , 283, 1081-1101	6.6	105
222	Sensitivity-enhanced NMR reveals alterations in protein structure by cellular milieu. <i>Cell</i> , <b>2015</b> , 163, 620-8	56.2	103
221	One-pot synthesis of MWW zeolite nanosheets using a rationally designed organic structure-directing agent. <i>Chemical Science</i> , <b>2015</b> , 6, 6320-6324	9.4	102
220	Magic angle spinning NMR of proteins: high-frequency dynamic nuclear polarization and ( <sup>1</sup> H) detection. <i>Annual Review of Biochemistry</i> , <b>2015</b> , 84, 465-97	29.1	101
219	High-frequency dynamic nuclear polarization in MAS spectra of membrane and soluble proteins. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 13626-7	16.4	101
218	Continuous-Wave Operation of a 460-GHz Second Harmonic Gyrotron Oscillator. <i>IEEE Transactions on Plasma Science</i> , <b>2006</b> , 34, 524-533	1.3	100
217	Dynamic DMF Binding in MOF-5 Enables the Formation of Metastable Cobalt-Substituted MOF-5 Analogues. <i>ACS Central Science</i> , <b>2015</b> , 1, 252-60	16.8	99
216	Cryogenic sample exchange NMR probe for magic angle spinning dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 198, 261-70	3	99
215	Recoupling of heteronuclear dipolar interactions with rotational-echo double-resonance at high magic-angle spinning frequencies. <i>Journal of Magnetic Resonance</i> , <b>2000</b> , 146, 132-9	3	98
214	Low-temperature solid-state <sup>13</sup> C NMR studies of the retinal chromophore in rhodopsin. <i>Biochemistry</i> , <b>1987</b> , 26, 1606-11	3.2	98

213	Mechanism of dynamic nuclear polarization in high magnetic fields. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 4922-4933	3.9	96
212	Pulsed electron-nuclear double resonance (ENDOR) at 140 GHz. <i>Journal of Magnetic Resonance</i> , <b>1999</b> , 138, 232-43	3	96
211	Acid-base and tautomeric equilibriums in the solid state: nitrogen-15 NMR spectroscopy of histidine and imidazole. <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 1192-1196	16.4	96
210	An unusual peptide conformation may precipitate amyloid formation in Alzheimer's disease: application of solid-state NMR to the determination of protein secondary structure. <i>Biochemistry</i> , <b>1991</b> , 30, 10382-7	3.2	92
209	Mechanisms of dynamic nuclear polarization in insulating solids. <i>Journal of Magnetic Resonance</i> , <b>2015</b> , 253, 23-35	3	91
208	In situ temperature jump high-frequency dynamic nuclear polarization experiments: enhanced sensitivity in liquid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9428-32	16.4	90
207	Letter: Observation of the effect of water on the <sup>31</sup> P nuclear magnetic resonance spectra of dipalmitoyllecithin. <i>Journal of the American Chemical Society</i> , <b>1976</b> , 98, 851-3	16.4	90
206	Paramagnet induced signal quenching in MAS-DNP experiments in frozen homogeneous solutions. <i>Journal of Magnetic Resonance</i> , <b>2014</b> , 240, 113-23	3	89
205	Measurement of internuclear distances in polycrystalline solids. Rotationally enhanced transfer of nuclear spin magnetization. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 4502-4503	16.4	89
204	Rotational Resonance Tickling: Accurate Internuclear Distance Measurement in Solids. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 10821-10830	16.4	87
203	High resolution structural characterization of A $\beta$ 2 amyloid fibrils by magic angle spinning NMR. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7509-18	16.4	86
202	The structure of a $\beta$ 2-microglobulin fibril suggests a molecular basis for its amyloid polymorphism. <i>Nature Communications</i> , <b>2018</b> , 9, 4517	17.4	85
201	Rotational resonance NMR study of the active site structure in bacteriorhodopsin: conformation of the Schiff base linkage. <i>Biochemistry</i> , <b>1992</b> , 31, 7931-8	3.2	84
200	Sensitivity-enhanced NMR of biological solids: dynamic nuclear polarization of Y21M fd bacteriophage and purple membrane. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 1010-1	16.4	83
199	Solid effect dynamic nuclear polarization and polarization pathways. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 015101	3.9	82
198	Structure and Mechanism of the Influenza A M218-60 Dimer of Dimers. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14877-86	16.4	81
197	Dynamic nuclear polarization with a water-soluble rigid biradical. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 4537-40	16.4	81
196	Resolution and polarization distribution in cryogenic DNP/MAS experiments. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5861-7	3.6	80

195	High-field DNP and ENDOR with a novel multiple-frequency resonance structure. <i>Journal of Magnetic Resonance</i> , <b>1999</b> , 140, 293-9	3	80
194	Dynamic nuclear polarization at 700 MHz/460 GHz. <i>Journal of Magnetic Resonance</i> , <b>2012</b> , 224, 1-7	3	79
193	Broad band dipolar recoupling in the nuclear magnetic resonance of rotating solids. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 6742-6748	3.9	79
192	Photonic-band-gap traveling-wave gyrotron amplifier. <i>Physical Review Letters</i> , <b>2013</b> , 111, 235101	7.4	78
191	A 250 GHz gyrotron with a 3 GHz tuning bandwidth for dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , <b>2012</b> , 221, 147-53	3	78
190	3D $^{15}\text{N}$ - $^{13}\text{C}$ - $^{13}\text{C}$ Chemical Shift Correlation Spectroscopy in Rotating Solids. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 8540-8546	16.4	76
189	Solid-state NMR detection of proton exchange between the bacteriorhodopsin Schiff base and bulk water. <i>Journal of the American Chemical Society</i> , <b>1988</b> , 110, 7221-7223	16.4	76
188	Water-soluble narrow-line radicals for dynamic nuclear polarization. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 14287-90	16.4	75
187	Molecular Dynamics and Magic Angle Spinning NMR. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 11950-11956	16.4	75
186	High-resolution oxygen-17 NMR spectroscopy of solids by multiple-quantum magic-angle-spinning. <i>Chemical Physics Letters</i> , <b>1997</b> , 277, 79-83	2.5	74
185	Magic angle spinning NMR analysis of beta2-microglobulin amyloid fibrils in two distinct morphologies. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 10414-23	16.4	73
184	NH-NH vector correlation in peptides by solid-state NMR. <i>Journal of Magnetic Resonance</i> , <b>2000</b> , 145, 1323-41	16.4	72
183	Measurement of $^{13}\text{C}$ - $^{15}\text{N}$ Distances in Uniformly $^{13}\text{C}$ Labeled Biomolecules: J-Decoupled REDOR. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 10237-10238	16.4	72
182	Higher order amyloid fibril structure by MAS NMR and DNP spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 19237-47	16.4	70
181	Magic angle spinning NMR investigation of influenza A M2(18-60): support for an allosteric mechanism of inhibition. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 10958-60	16.4	70
180	Observation of a low-temperature, dynamically driven structural transition in a polypeptide by solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 118-28	16.4	68
179	Band-selective homonuclear dipolar recoupling in rotating solids. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 4973-4987	3.9	67
178	Two-dimensional solid-state proton NMR and proton exchange. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 6254-6261	16.4	67



177	Rigid orthogonal bis-TEMPO biradicals with improved solubility for dynamic nuclear polarization. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 1789-97	4.2	66
176	Intermolecular alignment in $\beta$ -microglobulin amyloid fibrils. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 17077-9	16.4	66
175	The pre-discharge chromophore in bacteriorhodopsin: a 15N solid-state NMR study of the L photointermediate. <i>Biochemistry</i> , <b>1997</b> , 36, 9316-22	3.2	66
174	Radio frequency-driven recoupling at high magic-angle spinning frequencies: homonuclear recoupling sans heteronuclear decoupling. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 052321	3.9	66
173	Early and late M intermediates in the bacteriorhodopsin photocycle: a solid-state NMR study. <i>Biochemistry</i> , <b>1998</b> , 37, 8088-96	3.2	66
172	Microwave field distribution in a magic angle spinning dynamic nuclear polarization NMR probe. <i>Journal of Magnetic Resonance</i> , <b>2011</b> , 210, 16-23	3	65
171	Solvent-free dynamic nuclear polarization of amorphous and crystalline ortho-terphenyl. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 3040-6	3.4	64
170	Solid-state nuclear magnetic resonance investigation of solvent dependence of tyrosyl ring motion in an enzyme. <i>Biotechnology and Bioengineering</i> , <b>1993</b> , 42, 87-94	4.9	63
169	Corrugated Waveguide and Directional Coupler for CW 250-GHz Gyrotron DNP Experiments. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2005</b> , 53, 1863-1869	4.1	61
168	Radio-frequency-mediated dipolar recoupling among half-integer quadrupolar spins. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 5902-5909	3.9	61
167	Distinct prion strains are defined by amyloid core structure and chaperone binding site dynamics. <i>Chemistry and Biology</i> , <b>2014</b> , 21, 295-305		60
166	Lipid dynamics and protein-lipid interactions in 2D crystals formed with the $\beta$ barrel integral membrane protein VDAC1. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6375-87	16.4	60
165	Structural characterization of GNNQQNY amyloid fibrils by magic angle spinning NMR. <i>Biochemistry</i> , <b>2010</b> , 49, 9457-69	3.2	60
164	Operational Characteristics of a 14-W 140-GHz Gyrotron for Dynamic Nuclear Polarization. <i>IEEE Transactions on Plasma Science</i> , <b>2006</b> , 34, 518-523	1.3	60
163	Two-dimensional heteronuclear chemical shift correlation spectroscopy in rotating solids. <i>Journal of the American Chemical Society</i> , <b>1984</b> , 106, 2506-2512	16.4	60
162	Interrogating the Lewis Acidity of Metal Sites in Beta Zeolites with N Pyridine Adsorption Coupled with MAS NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 28533-28544	3.8	60
161	Efficient cross-effect dynamic nuclear polarization without depolarization in high-resolution MAS NMR. <i>Chemical Science</i> , <b>2017</b> , 8, 8150-8163	9.4	59
160	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> , <b>2016</b> , 18, 27205-27218	3.6	59

159	Synergy in the spectral tuning of retinal pigments: complete accounting of the opsin shift in bacteriorhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1994</b> , 91, 8880-4	11.5	59
158	Dynamic nuclear polarization study of inhibitor binding to the M2(18-60) proton transporter from influenza A. <i>Biochemistry</i> , <b>2013</b> , 52, 2774-82	3.2	58
157	Dipolar Correlation NMR Spectroscopy of a Membrane Protein. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 10178-10181	16.4	58
156	Dynamic nuclear polarization of <sup>17</sup> O: direct polarization. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 14894-906	3.4	57
155	<sup>1</sup> H dynamic nuclear polarization based on an endogenous radical. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 7055-65	3.4	56
154	Proton assisted recoupling at high spinning frequencies. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 9062-91	3.4	56
153	Synthesis of a BDPA-TEMPO biradical. <i>Organic Letters</i> , <b>2009</b> , 11, 1871-4	6.2	56
152	Properties of dinitroxides for use in dynamic nuclear polarization (DNP). <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5841-5	3.6	55
151	Backbone and side chain assignment strategies for multiply labeled membrane peptides and proteins in the solid state. <i>Journal of Magnetic Resonance</i> , <b>2003</b> , 160, 1-12	3	55
150	Solid effect in magic angle spinning dynamic nuclear polarization. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 054201	3.9	54
149	Tyrosyl motion in peptides. Deuterium NMR line shapes and spin-lattice relaxation. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 1636-1640	16.4	54
148	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> , <b>2014</b> , 136, 11716-27	16.4	53
147	High-field <sup>13</sup> C dynamic nuclear polarization with a radical mixture. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 2935-8	16.4	53
146	Dynamic nuclear polarization of sedimented solutes. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1641-4	16.4	53
145	Magic-angle-spinning NMR of the drug resistant S31N M2 proton transporter from influenza A. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 7215-8	16.4	52
144	<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> , <b>2010</b> , 12, 5872-8	3.6	52
143	Determination of Peptide Amide Configuration in a Model Amyloid Fibril by Solid-State NMR. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 10487-10493	16.4	52
142	<sup>13</sup> C- <sup>13</sup> C rotational resonance width distance measurements in uniformly <sup>13</sup> C-labeled peptides. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 15623-9	16.4	52

141	Two-dimensional $^{13}\text{C}$ - $^{13}\text{C}$ correlation spectroscopy with magic angle spinning and dynamic nuclear polarization. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 3214-5	16.4	52
140	Pulsed ESR at 140 GHz. <i>Israel Journal of Chemistry</i> , <b>1992</b> , 32, 357-363	3.4	52
139	$^{13}\text{C}$ chemical shielding in oxalic acid, oxalic acid dihydrate, and diammonium oxalate. <i>Journal of Chemical Physics</i> , <b>1975</b> , 63, 1267-1271	3.9	52
138	N-Terminal Extensions Retard A $\beta$ 2 Fibril Formation but Allow Cross-Seeding and Coaggregation with A $\beta$ 2. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14673-85	16.4	51
137	High-resolution MAS NMR analysis of PI3-SH3 amyloid fibrils: backbone conformation and implications for protofilament assembly and structure. <i>Biochemistry</i> , <b>2010</b> , 49, 7474-84	3.2	49
136	$^{15}\text{N}$ - $^{15}\text{N}$ proton assisted recoupling in magic angle spinning NMR. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 5769-76	16.4	49
135	DNP enhanced frequency-selective TEDOR experiments in bacteriorhodopsin. <i>Journal of Magnetic Resonance</i> , <b>2010</b> , 202, 9-13	3	49
134	Arginine activity in the proton-motive photocycle of bacteriorhodopsin: solid-state NMR studies of the wild-type and D85N proteins. <i>Biochemistry</i> , <b>1999</b> , 38, 1562-72	3.2	49
133	Efficient Low-Voltage Operation of a CW Gyrotron Oscillator at 233 GHz. <i>IEEE Transactions on Plasma Science</i> , <b>2007</b> , 35, 27-30	1.3	48
132	High-frequency (140-GHz) time domain EPR and ENDOR spectroscopy: the tyrosyl radical-diiron cofactor in ribonucleotide reductase from yeast. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 3569-76	16.4	48
131	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> , <b>2017</b> , 114, 3642-3647	11.5	47
130	Dynamic Nuclear Polarization of Oxygen-17. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 2030-2034	6.4	47
129	Chromophore distortions in the bacteriorhodopsin photocycle: evolution of the H-C14-C15-H dihedral angle measured by solid-state NMR. <i>Biochemistry</i> , <b>2002</b> , 41, 431-8	3.2	47
128	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> , <b>2018</b> , 140, 4085-4091	16.4	46
127	Neue Ansätze zur Empfindlichkeitssteigerung in der biomolekularen NMR-Spektroskopie. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9292-9317	3.6	46
126	Band-selective carbonyl to aliphatic side chain $^{13}\text{C}$ - $^{13}\text{C}$ distance measurements in U- $^{13}\text{C}$ , $^{15}\text{N}$ -labeled solid peptides by magic angle spinning NMR. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 948-58	16.4	46
125	Time domain DNP with the NOVEL sequence. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 054201	3.9	45
124	Spin dynamics in the modulation frame: application to homonuclear recoupling in magic angle spinning solid-state NMR. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 124503	3.9	44

123	Heteronuclear proton assisted recoupling. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 095101	3.9	43
122	In situ high-field dynamic nuclear polarization--direct and indirect polarization of <sup>13</sup> C nuclei. <i>ChemPhysChem</i> , <b>2010</b> , 11, 999-1001	3.2	43
121	Peptide and Protein Dynamics and Low-Temperature/DNP Magic Angle Spinning NMR. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 4997-5006	3.4	42
120	Confined crystallization of fenofibrate in nanoporous silica. <i>CrystEngComm</i> , <b>2015</b> , 17, 7922-7929	3.3	42
119	NMR determination of the torsion angle psi in alpha-helical peptides and proteins: the HCCN dipolar correlation experiment. <i>Journal of Magnetic Resonance</i> , <b>2002</b> , 154, 317-24	3	41
118	High resolution phosphorus-31 and carbon-13 nuclear magnetic resonance spectra of unsonicated model membranes. <i>Journal of the American Chemical Society</i> , <b>1978</b> , 100, 1296-1298	16.4	41
117	Cross polarization in the tilted frame: assignment and spectral simplification in heteronuclear spin systems		41
116	Structural investigation of the active site in bacteriorhodopsin: geometric constraints on the roles of Asp-85 and Asp-212 in the proton-pumping mechanism from solid state NMR. <i>Biochemistry</i> , <b>2000</b> , 39, 362-71	3.2	40
115	Measurement of dipolar couplings in a uniformly ( <sup>13</sup> C),( <sup>15</sup> N)-labeled membrane protein: distances between the Schiff base and aspartic acids in the active site of bacteriorhodopsin. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 12929-30	16.4	40
114	Tilted n-fold symmetric radio frequency pulse sequences: Applications to CSA and heteronuclear dipolar recoupling in homonuclear dipolar coupled spin networks. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 7286-7293	3.9	40
113	Internuclear distance measurement in a reaction intermediate: solid-state carbon-13 NMR rotational resonance determination of the Schiff base configuration in the M photointermediate of bacteriorhodopsin. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 8515-8516	16.4	40
112	Topical Developments in High-Field Dynamic Nuclear Polarization. <i>Israel Journal of Chemistry</i> , <b>2014</b> , 54, 207-221	3.4	38
111	Secondary structure in the core of amyloid fibrils formed from human I <sub>h</sub> and its truncated variant N6. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6313-25	16.4	37
110	In Situ Characterization of Pharmaceutical Formulations by Dynamic Nuclear Polarization Enhanced MAS NMR. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 8132-8141	3.4	37
109	<sup>2</sup> H NMR Line Shapes and Spin Lattice Relaxation in Ba(ClO <sub>3</sub> ) <sub>2</sub> ·2H <sub>2</sub> O. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 988-994	2.8	37
108	Multiple-quantum magic-angle spinning spectroscopy using nonlinear sampling. <i>Journal of Magnetic Resonance</i> , <b>2003</b> , 161, 43-55	3	37
107	High-frequency dynamic nuclear polarization in the nuclear rotating frame. <i>Journal of Magnetic Resonance</i> , <b>2000</b> , 144, 134-41	3	37
106	Continuously Tunable 250 GHz Gyrotron with a Double Disk Window for DNP-NMR Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2013</b> , 34, 42-52	2.2	36

105	O MAS NMR Correlation Spectroscopy at High Magnetic Fields. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17953-17963	16.4	36
104	Electron-nuclear cross polarization. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2006</b> , 29, 66-78	3.1	35
103	Solid effect in the electron spin dressed state: A new approach for dynamic nuclear polarization. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 6795-6802	3.9	35
102	Pulsed dynamic nuclear polarization at 5 T. <i>Chemical Physics Letters</i> , <b>1992</b> , 189, 54-59	2.5	35
101	In situ temperature-jump dynamic nuclear polarization: enhanced sensitivity in two dimensional <sup>13</sup> C- <sup>13</sup> C correlation spectroscopy in solution. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12-3	16.4	34
100	Backbone motions in a crystalline protein from field-dependent <sup>2</sup> H-NMR relaxation and line-shape analysis. <i>Biopolymers</i> , <b>2000</b> , 53, 9-18	2.2	34
99	DNP-enhanced MAS NMR of bovine serum albumin sediments and solutions. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 2957-65	3.4	33
98	Solid-state NMR characterization of gas vesicle structure. <i>Biophysical Journal</i> , <b>2010</b> , 99, 1932-9	2.9	33
97	Rapid three-dimensional MAS NMR spectroscopy at critical sensitivity. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 9215-8	16.4	33
96	A Solid-State NMR Study of Tungsten Methyl Group Dynamics in [W(=CMe <sub>5</sub> )Me <sub>4</sub> ][PF <sub>6</sub> ]. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 5665-5671	16.4	33
95	Pulsed Dynamic Nuclear Polarization with Trityl Radicals. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 111-6	6.4	32
94	Expanding the repertoire of amyloid polymorphs by co-polymerization of related protein precursors. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 7327-37	5.4	32
93	Rotational resonance NMR: separation of dipolar coupling and zero quantum relaxation. <i>Journal of Magnetic Resonance</i> , <b>2003</b> , 164, 92-103	3	32
92	Multipole-multimode Floquet theory in nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 164502	3.9	32
91	Electron spin resonance of TOAC labeled peptides: folding transitions and high frequency spectroscopy. <i>Biopolymers</i> , <b>2000</b> , 55, 479-85	2.2	32
90	Frequency-Swept Integrated Solid Effect. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6744-6748	16.4	31
89	Structural Insights into Bound Water in Crystalline Amino Acids: Experimental and Theoretical ( <sup>17</sup> O) NMR. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 8024-36	3.4	31
88	Lipid bilayer-bound conformation of an integral membrane beta barrel protein by multidimensional MAS NMR. <i>Journal of Biomolecular NMR</i> , <b>2015</b> , 61, 299-310	3	31

87	Magic angle spinning nuclear magnetic resonance characterization of voltage-dependent anion channel gating in two-dimensional lipid crystalline bilayers. <i>Biochemistry</i> , <b>2015</b> , 54, 994-1005	3.2	31
86	A 140 GHz pulsed EPR/212 MHz NMR spectrometer for DNP studies. <i>Journal of Magnetic Resonance</i> , <b>2012</b> , 223, 170-9	3	31
85	Long-range correlations between aliphatic <sup>13</sup> C nuclei in protein MAS NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5708-10	16.4	31
84	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> , <b>2018</b> , 115, 10022-10027	11.5	31
83	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> , <b>2015</b> , 201, 151-159	5.3	29
82	Three-spin solid effect and the spin diffusion barrier in amorphous solids. <i>Science Advances</i> , <b>2019</b> , 5, eaax2743	2.43	29
81	Efficient resonance assignment of proteins in MAS NMR by simultaneous intra- and inter-residue 3D correlation spectroscopy. <i>Journal of Biomolecular NMR</i> , <b>2013</b> , 55, 257-65	3	29
80	Multipole-multimode Floquet theory of rotational resonance width experiments: <sup>13</sup> C- <sup>13</sup> C distance measurements in uniformly labeled solids. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 214107	3.9	29
79	Frequency-selective heteronuclear recoupling in rotating solids. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 812-814	3.9	28
78	Time-optimized pulsed dynamic nuclear polarization. <i>Science Advances</i> , <b>2019</b> , 5, eaav6909	14.3	27
77	Efficient Dynamic Nuclear Polarization at 800 MHz/527 GHz with Trityl-Nitroxide Biradicals. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11936-11940	3.6	27
76	Control of the pump cycle in bacteriorhodopsin: mechanisms elucidated by solid-state NMR of the D85N mutant. <i>Biophysical Journal</i> , <b>2002</b> , 82, 1017-29	2.9	27
75	A chemically competent thiosulfuranyl radical on the Escherichia coli class III ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9001-13	16.4	25
74	Off-resonance NOVEL. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 164201	3.9	25
73	Accurate determination of interstrand distances and alignment in amyloid fibrils by magic angle spinning NMR. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 13555-61	3.4	25
72	Dynamische Kernpolarisation bei deuterierten Proteinen. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 7971-7974	3.6	25
71	Biosilica-Entrapped Enzymes Studied by Using Dynamic Nuclear-Polarization-Enhanced High-Field NMR Spectroscopy. <i>ChemPhysChem</i> , <b>2015</b> , 16, 2751-2754	3.2	24
70	Proton-driven spin diffusion in rotating solids via reversible and irreversible quantum dynamics. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 134509	3.9	24

69	Second Harmonic 527-GHz Gyrotron for DNP-NMR: Design and Experimental Results. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 328-334	2.9	24
68	An amyloid organelle, solid-state NMR evidence for cross-assembly of gas vesicles. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 3479-84	5.4	23
67	Spectral Characteristics of a 140-GHz Long-Pulsed Gyrotron. <i>IEEE Transactions on Plasma Science</i> , <b>2007</b> , 35, 559-564	1.3	23
66	Frequency-selective heteronuclear dephasing by dipole couplings in spinning and static solids. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 10289-10299	3.9	23
65	Observation of $^{13}\text{C}$ - $^{14}\text{N}$ dipolar couplings in single crystals of glycine. <i>Journal of Chemical Physics</i> , <b>1975</b> , 63, 3676-3677	3.9	23
64	CHHC and (1)H-(1)H magnetization exchange: analysis by experimental solid-state NMR and 11-spin density-matrix simulations. <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 199, 173-87	3	22
63	Interactions between the Protonated Schiff Base and Its Counterion in the Photointermediates of Bacteriorhodopsin. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 9495-9498	16.4	22
62	A field-sweep/field-lock system for superconducting magnets--Application to high-field EPR. <i>Journal of Magnetic Resonance</i> , <b>2006</b> , 183, 303-7	3	22
61	( $^{17}\text{O}$ ) NMR Investigation of Water Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 7851-8	3.4	22
60	Selectively dispersed isotope labeling for protein structure determination by magic angle spinning NMR. <i>Journal of Biomolecular NMR</i> , <b>2013</b> , 57, 129-39	3	21
59	High-performance selective excitation pulses for solid- and liquid-state NMR spectroscopy. <i>ChemPhysChem</i> , <b>2004</b> , 5, 834-50	3.2	21
58	High frequency dynamic nuclear polarization: New directions for the 21st century. <i>Journal of Magnetic Resonance</i> , <b>2019</b> , 306, 128-133	3	20
57	Precision Field-Sweep System for Superconducting Solenoids and Its Application to High-Frequency EPR Spectroscopy. <i>Journal of Magnetic Resonance Series A</i> , <b>1993</b> , 101, 92-94		19
56	Conformation of bis-nitroxide polarizing agents by multi-frequency EPR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 25506-25517	3.6	19
55	Ramped-amplitude NOVEL. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 154204	3.9	18
54	Frequency-Swept Integrated and Stretched Solid Effect Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3187-3192	6.4	18
53	High-Resolution $^{17}\text{O}$ NMR Spectroscopy of Structural Water. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 3061-3067	3.4	17
52	Formation of Organic Molecular Nanocrystals under Rigid Confinement with Analysis by Solid State NMR. <i>CrystEngComm</i> , <b>2014</b> , 16, 9345-9352	3.3	17

51	Deterministic schedules for robust and reproducible non-uniform sampling in multidimensional NMR. <i>Journal of Magnetic Resonance</i> , <b>2012</b> , 214, 296-301	3	16
50	Aggregation and Fibril Structure of A $\beta$ and A $\beta$ . <i>Biochemistry</i> , <b>2017</b> , 56, 4850-4859	3.2	16
49	Overhauser effects in non-conducting solids at 1.2 K. <i>Journal of Magnetic Resonance</i> , <b>2018</b> , 286, 138-142	3	16
48	High field dynamic nuclear polarization NMR with surfactant sheltered biradicals. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 1825-30	3.4	14
47	Continuous-wave Submillimeter-wave Gyrotrons. <i>Proceedings of SPIE</i> , <b>2006</b> , 6373, 63730C	1.7	14
46	Formation of Organic Molecular Nanocrystals under Soft Confinement. <i>CrystEngComm</i> , <b>2015</b> , 17, 6044-6052	3.5	13
45	Disruption of the CD Loop by Enzymatic Cleavage Promotes the Formation of Toxic Transthyretin Oligomers through a Common Transthyretin Misfolding Pathway. <i>Biochemistry</i> , <b>2020</b> , 59, 2319-2327	3.2	13
44	Compensated second-order recoupling: application to third spin assisted recoupling. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 7246-55	3.6	13
43	Description of depolarization effects in double-quantum solid state nuclear magnetic resonance experiments using multipole-multimode Floquet theory. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 44510	3.9	13
42	Rotational resonance with multiple-pulse scaling in solid-state nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 5533-5545	3.9	13
41	Recoupling in solid state NMR using $\rho$ -prepared states and phase matching. <i>Journal of Magnetic Resonance</i> , <b>2011</b> , 212, 402-11	3	11
40	Targeted $^{13}\text{C}$ - $^{13}\text{C}$ distance measurements in a microcrystalline protein via J-decoupled rotational resonance width measurements. <i>ChemPhysChem</i> , <b>2009</b> , 10, 1656-63	3.2	11
39	High-resolution solid-state NMR structure of alanyl-prolyl-glycine. <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 200, 95-100	3	11
38	3D MAS NMR Experiment Utilizing Through-Space N-N Correlations. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6518-6521	16.4	10
37	Dynamic nuclear polarization at 9T using a novel 250 GHz gyrotron microwave source. 2003. <i>Journal of Magnetic Resonance</i> , <b>2011</b> , 213, 404-9	3	10
36	Observation of strongly forbidden solid effect dynamic nuclear polarization transitions via electron-electron double resonance detected NMR. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 214201	3.9	9
35	Soft-triple resonance solid-state NMR experiments for assignments of U- $^{13}\text{C}$ , $^{15}\text{N}$ labeled peptides and proteins. <i>Journal of Magnetic Resonance</i> , <b>2002</b> , 158, 157-63	3	9
34	Continuous-Wave Operation of a Frequency-Tunable 460-GHz Second-Harmonic Gyrotron for Enhanced Nuclear Magnetic Resonance. <i>IEEE Transactions on Electron Devices</i> , <b>2010</b> , 38, 1150-1159	2.9	9



33	Proton-Assisted Recoupling (PAR) in Peptides and Proteins. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 10804-10817	3.4	8
32	Structural characterization of the human membrane protein VDAC2 in lipid bilayers by MAS NMR. <i>Journal of Biomolecular NMR</i> , <b>2019</b> , 73, 451-460	3	7
31	Efficient, balanced, transmission line RF circuits by back propagation of common impedance nodes. <i>Journal of Magnetic Resonance</i> , <b>2013</b> , 231, 32-8	3	7
30	<b>2011</b> ,		7
29	High-precision measurement of the electron spin g factor of trapped atomic nitrogen in the endohedral fullerene N@C. <i>Journal of Magnetic Resonance</i> , <b>2018</b> , 290, 12-17	3	6
28	Three pulse recoupling and phase jump matching. <i>Journal of Magnetic Resonance</i> , <b>2016</b> , 263, 172-183	3	6
27	Overhauser Dynamic Nuclear Polarization with Selectively Deuterated BDPA Radicals. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 20281-20290	16.4	6
26	H detection and dynamic nuclear polarization-enhanced NMR of A $\beta$ fibrils.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	6
25	One-pot Solvothermal Synthesis of Well-ordered Layered Sodium Aluminoalcoholate Complex: A Useful Precursor for the Preparation of Porous AlO Particles. <i>CrystEngComm</i> , <b>2014</b> , 16, 2950-2958	3.3	5
24	Frequency-Swept Integrated Solid Effect. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 6848-6852	3.6	4
23	Convolutional Neural Network Analysis of Two-Dimensional Hyperfine Sublevel Correlation Electron Paramagnetic Resonance Spectra. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1115-1119	6.4	4
22	Structural Characterization of Cardiac Ex Vivo Transthyretin Amyloid: Insight into the Transthyretin Misfolding Pathway In Vivo. <i>Biochemistry</i> , <b>2020</b> , 59, 1800-1803	3.2	4
21	Dynamic nuclear polarization at 9T using a novel 250 gyrotron microwave source. <i>Journal of Magnetic Resonance</i> , <b>2011</b> , 213, 410-2	3	4
20	Deuterium quadrupole echo NMR study of methyl group dynamics in N-Acetyl-dl-(Ed6)-valine. <i>Journal of Magnetic Resonance</i> , <b>1989</b> , 84, 268-274		4
19	Tau induces formation of $\beta$ -synuclein filaments with distinct molecular conformations. <i>Biochemical and Biophysical Research Communications</i> , <b>2021</b> , 554, 145-150	3.4	3
18	Adiabatic Solid Effect. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3416-3421	6.4	3
17	Time domain DNP at 1.2 T. <i>Journal of Magnetic Resonance</i> , <b>2021</b> , 329, 107012	3	3
16	Modular, triple-resonance, transmission line DNP MAS probe for 500 MHz/330 GHz. <i>Journal of Magnetic Resonance</i> , <b>2019</b> , 307, 106573	3	2

15	Low-temperature polymorphic phase transition in a crystalline tripeptide L-Ala-L-Pro-GlyH <sub>2</sub> O revealed by adiabatic calorimetry. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 1787-92	3.4	2
14	Recent progress at MIT on THz gyrotron oscillators for DNP/NMR <b>2011</b> ,		2
13	CW second harmonic results at 460 GHz of a gyrotron oscillator - for sensitivity enhanced NMR		2
12	Localization of Cl-35 nuclei in biological solids using rotational-echo double-resonance experiments. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2017</b> , 82-83, 35-41	3.1	1
11	Reprint of: Localization of Cl-35 Nuclei in Biological Solids using Rotational-Echo Double-Resonance Experiments. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2017</b> , 84, 242-248	3.1	1
10	Optimization of THz wave coupling into samples in DNP/NMR spectroscopy <b>2010</b> ,		1
9	Chemical shift anisotropy selective inversion. <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 200, 233-8	3	1
8	High-Frequency Dynamic Nuclear Polarization <b>2010</b> ,		1
7	Organometallic Synthesis and Spectroscopic Characterization of Manganese Doped CdSe Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 582, 56		1
6	DNPSOUP: A simulation software package for dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , <b>2021</b> , 334, 107107	3	1
5	Melanie Madeleine Rosay. <i>Journal of Magnetic Resonance</i> , <b>2021</b> , 327, 106979	3	1
4	Backbone motions in a crystalline protein from field-dependent <sup>2</sup> H-NMR relaxation and line-shape analysis <b>2000</b> , 53, 9		1
3	3D-printed stators & drive caps for magic-angle spinning NMR.. <i>Journal of Magnetic Resonance</i> , <b>2021</b> , 335, 107126	3	0
2	Molecular Basis of Ca(II)-Induced Tetramerization and Transition-Metal Sequestration in Human Calprotectin. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 18073-18090	16.4	0
1	Observation of a four-spin solid effect.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 174201	3.9	