

Robert G Griffin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	H detection and dynamic nuclear polarization-enhanced NMR of Aβ fibrils.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	6
301	Observation of a four-spin solid effect.. <i>Journal of Chemical Physics</i> , 2022 , 156, 174201	3.9	
300	DNPSOUP: A simulation software package for dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2021 , 334, 107107	3	1
299	Overhauser Dynamic Nuclear Polarization with Selectively Deuterated BDPA Radicals. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20281-20290	16.4	6
298	3D-printed stators & drive caps for magic-angle spinning NMR.. <i>Journal of Magnetic Resonance</i> , 2021 , 335, 107126	3	0
297	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	16.4	0
296	Tau induces formation of β-synuclein filaments with distinct molecular conformations. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 554, 145-150	3.4	3
295	Melanie Madeleine Rosay. <i>Journal of Magnetic Resonance</i> , 2021 , 327, 106979	3	1
294	Time domain DNP at 1.2 T. <i>Journal of Magnetic Resonance</i> , 2021 , 329, 107012	3	3
293	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	3.2	13
292	Structural Characterization of Cardiac Ex Vivo Transthyretin Amyloid: Insight into the Transthyretin Misfolding Pathway In Vivo. <i>Biochemistry</i> , 2020 , 59, 1800-1803	3.2	4
291	Second Harmonic 527-GHz Gyrotron for DNP-NMR: Design and Experimental Results. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 328-334	2.9	24
290	Adiabatic Solid Effect. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3416-3421	6.4	3
289	Structural characterization of the human membrane protein VDAC2 in lipid bilayers by MAS NMR. <i>Journal of Biomolecular NMR</i> , 2019 , 73, 451-460	3	7
288	Time-optimized pulsed dynamic nuclear polarization. <i>Science Advances</i> , 2019 , 5, eaav6909	14.3	27
287	High-Resolution O NMR Spectroscopy of Structural Water. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3061-3067	3.4	17
286	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	6.4	4

285	Modular, triple-resonance, transmission line DNP MAS probe for 500 MHz/330 GHz. <i>Journal of Magnetic Resonance</i> , 2019 , 307, 106573	3	2
284	Three-spin solid effect and the spin diffusion barrier in amorphous solids. <i>Science Advances</i> , 2019 , 5, eaax2743	27.43	29
283	High frequency dynamic nuclear polarization: New directions for the 21st century. <i>Journal of Magnetic Resonance</i> , 2019 , 306, 128-133	3	20
282	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	16.4	46
281	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> , 2018 , 290, 12-17	3	6
280	Overhauser effects in non-conducting solids at 1.2 K. <i>Journal of Magnetic Resonance</i> , 2018 , 286, 138-142	3	16
279	Conformation of bis-nitroxide polarizing agents by multi-frequency EPR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 25506-25517	3.6	19
278	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	11.5	31
277	The structure of a β -microglobulin fibril suggests a molecular basis for its amyloid polymorphism. <i>Nature Communications</i> , 2018 , 9, 4517	17.4	85
276	Frequency-Swept Integrated and Stretched Solid Effect Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3187-3192	6.4	18
275	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	3.1	1
274	Ramped-amplitude NOVEL. <i>Journal of Chemical Physics</i> , 2017 , 146, 154204	3.9	18
273	Peptide and Protein Dynamics and Low-Temperature/DNP Magic Angle Spinning NMR. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 4997-5006	3.4	42
272	Frequency-Swept Integrated Solid Effect. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6744-6748	6.4	31
271	3D MAS NMR Experiment Utilizing Through-Space N-N Correlations. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6518-6521	16.4	10
270	Frequency-Swept Integrated Solid Effect. <i>Angewandte Chemie</i> , 2017 , 129, 6848-6852	3.6	4
269	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	11.5	47
268	Efficient cross-effect dynamic nuclear polarization without depolarization in high-resolution MAS NMR. <i>Chemical Science</i> , 2017 , 8, 8150-8163	9.4	59

267	Proton-Assisted Recoupling (PAR) in Peptides and Proteins. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10804-10817	3.4	8
266	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	3.1	1
265	Aggregation and Fibril Structure of A β and A β . <i>Biochemistry</i> , 2017 , 56, 4850-4859	3.2	16
264	In Situ Characterization of Pharmaceutical Formulations by Dynamic Nuclear Polarization Enhanced MAS NMR. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 8132-8141	3.4	37
263	O MAS NMR Correlation Spectroscopy at High Magnetic Fields. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17953-17963	16.4	36
262	Off-resonance NOVEL. <i>Journal of Chemical Physics</i> , 2017 , 147, 164201	3.9	25
261	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	3.6	59
260	Atomic Resolution Structure of Monomorphic A β 2 Amyloid Fibrils. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9663-74	16.4	537
259	Highly branched and loop-rich gels via formation of metal-organic cages linked by polymers. <i>Nature Chemistry</i> , 2016 , 8, 33-41	17.6	179
258	Pulsed Dynamic Nuclear Polarization with Trityl Radicals. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 111-6	6.4	32
257	Three pulse recoupling and phase jump matching. <i>Journal of Magnetic Resonance</i> , 2016 , 263, 172-183	3	6
256	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> , 2016 , 120, 28533-28544	3.8	60
255	(17)O NMR Investigation of Water Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7851-8	3.4	22
254	Dynamic DMF Binding in MOF-5 Enables the Formation of Metastable Cobalt-Substituted MOF-5 Analogues. <i>ACS Central Science</i> , 2015 , 1, 252-60	16.8	99
253	Structure and Mechanism of the Influenza A M218-60 Dimer of Dimers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14877-86	16.4	81
252	Formation of Organic Molecular Nanocrystals under Soft Confinement. <i>CrystEngComm</i> , 2015 , 17, 6044-6052	6.5	13
251	Mechanisms of dynamic nuclear polarization in insulating solids. <i>Journal of Magnetic Resonance</i> , 2015 , 253, 23-35	3	91
250	Magic angle spinning NMR of proteins: high-frequency dynamic nuclear polarization and (1)H detection. <i>Annual Review of Biochemistry</i> , 2015 , 84, 465-97	29.1	101

249	Confined crystallization of fenofibrate in nanoporous silica. <i>CrystEngComm</i> , 2015 , 17, 7922-7929	3.3	42
248	N-Terminal Extensions Retard A β 2 Fibril Formation but Allow Cross-Seeding and Coaggregation with A β 2. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14673-85	16.4	51
247	Sensitivity-enhanced NMR reveals alterations in protein structure by cellular milieus. <i>Cell</i> , 2015 , 163, 620-8	56.2	103
246	One-pot synthesis of MWW zeolite nanosheets using a rationally designed organic structure-directing agent. <i>Chemical Science</i> , 2015 , 6, 6320-6324	9.4	102
245	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	5.3	29
244	Time domain DNP with the NOVEL sequence. <i>Journal of Chemical Physics</i> , 2015 , 143, 054201	3.9	45
243	Efficient Dynamic Nuclear Polarization at 800 MHz/527 GHz with Trityl-Nitroxide Biradicals. <i>Angewandte Chemie</i> , 2015 , 127, 11936-11940	3.6	27
242	Efficient Dynamic Nuclear Polarization at 800 MHz/527 GHz with Trityl-Nitroxide Biradicals. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11770-4	16.4	133
241	Biosilica-Entrapped Enzymes Studied by Using Dynamic Nuclear-Polarization-Enhanced High-Field NMR Spectroscopy. <i>ChemPhysChem</i> , 2015 , 16, 2751-2754	3.2	24
240	Neue Ansätze zur Empfindlichkeitssteigerung in der biomolekularen NMR-Spektroskopie. <i>Angewandte Chemie</i> , 2015 , 127, 9292-9317	3.6	46
239	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9162-85	16.4	208
238	High resolution structural characterization of A β 2 amyloid fibrils by magic angle spinning NMR. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7509-18	16.4	86
237	Structural Insights into Bound Water in Crystalline Amino Acids: Experimental and Theoretical (17)O NMR. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 8024-36	3.4	31
236	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	3	31
235	Low-temperature polymorphic phase transition in a crystalline tripeptide L-Ala-L-Pro-GlyH ₂ O revealed by adiabatic calorimetry. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1787-92	3.4	2
234	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	3.2	31
233	Topical Developments in High-Field Dynamic Nuclear Polarization. <i>Israel Journal of Chemistry</i> , 2014 , 54, 207-221	3.4	38
232	Distinct prion strains are defined by amyloid core structure and chaperone binding site dynamics. <i>Chemistry and Biology</i> , 2014 , 21, 295-305		60

231	Formation of Organic Molecular Nanocrystals under Rigid Confinement with Analysis by Solid State NMR. <i>CrystEngComm</i> , 2014 , 16, 9345-9352	3.3	17
230	One-pot Solvothermal Synthesis of Well-ordered Layered Sodium Aluminoalcoholate Complex: A Useful Precursor for the Preparation of Porous AlO Particles. <i>CrystEngComm</i> , 2014 , 16, 2950-2958	3.3	5
229	Dynamic nuclear polarization of (1)H, (13)C, and (59)Co in a tris(ethylenediamine)cobalt(III) crystalline lattice doped with Cr(III). <i>Journal of the American Chemical Society</i> , 2014 , 136, 11716-27	16.4	53
228	A chemically competent thiosulfuranyl radical on the Escherichia coli class III ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9001-13	16.4	25
227	DNP-enhanced MAS NMR of bovine serum albumin sediments and solutions. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 2957-65	3.4	33
226	High field dynamic nuclear polarization NMR with surfactant sheltered biradicals. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1825-30	3.4	14
225	Rapid proton-detected NMR assignment for proteins with fast magic angle spinning. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12489-97	16.4	205
224	Secondary structure in the core of amyloid fibrils formed from human I β and its truncated variant N6. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6313-25	16.4	37
223	Overhauser effects in insulating solids. <i>Journal of Chemical Physics</i> , 2014 , 141, 064202	3.9	128
222	Paramagnet induced signal quenching in MAS-DNP experiments in frozen homogeneous solutions. <i>Journal of Magnetic Resonance</i> , 2014 , 240, 113-23	3	89
221	Efficient, balanced, transmission line RF circuits by back propagation of common impedance nodes. <i>Journal of Magnetic Resonance</i> , 2013 , 231, 32-8	3	7
220	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, 257-65	3	29
219	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, 5468-73	11.5	401
218	Dynamic nuclear polarization study of inhibitor binding to the M2(18-60) proton transporter from influenza A. <i>Biochemistry</i> , 2013 , 52, 2774-82	3.2	58
217	Dynamic nuclear polarization of 17O: direct polarization. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14894-906	3.4	57
216	Photonic-band-gap traveling-wave gyrotron amplifier. <i>Physical Review Letters</i> , 2013 , 111, 235101	7.4	78
215	Selectively dispersed isotope labeling for protein structure determination by magic angle spinning NMR. <i>Journal of Biomolecular NMR</i> , 2013 , 57, 129-39	3	21
214	Higher order amyloid fibril structure by MAS NMR and DNP spectroscopy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 19237-47	16.4	70

213	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	36
212	High-field ¹³ C dynamic nuclear polarization with a radical mixture. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2935-8	16.4	53
211	High frequency dynamic nuclear polarization. <i>Accounts of Chemical Research</i> , 2013 , 46, 1933-41	24.3	409
210	Dynamic nuclear polarization of sedimented solutes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1641-4	16.4	53
209	Solvent-free dynamic nuclear polarization of amorphous and crystalline ortho-terphenyl. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3040-6	3.4	64
208	Observation of strongly forbidden solid effect dynamic nuclear polarization transitions via electron-electron double resonance detected NMR. <i>Journal of Chemical Physics</i> , 2013 , 139, 214201	3.9	9
207	Expanding the repertoire of amyloid polymorphs by co-polymerization of related protein precursors. <i>Journal of Biological Chemistry</i> , 2013 , 288, 7327-37	5.4	32
206	Deterministic schedules for robust and reproducible non-uniform sampling in multidimensional NMR. <i>Journal of Magnetic Resonance</i> , 2012 , 214, 296-301	3	16
205	Compensated second-order recoupling: application to third spin assisted recoupling. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 7246-55	3.6	13
204	Lipid dynamics and protein-lipid interactions in 2D crystals formed with the E-barrel integral membrane protein VDAC1. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6375-87	16.4	60
203	Magic-angle-spinning NMR of the drug resistant S31N M2 proton transporter from influenza A. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7215-8	16.4	52
202	Water-soluble narrow-line radicals for dynamic nuclear polarization. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14287-90	16.4	75
201	A 250 GHz gyrotron with a 3 GHz tuning bandwidth for dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2012 , 221, 147-53	3	78
200	A 140 GHz pulsed EPR/212 MHz NMR spectrometer for DNP studies. <i>Journal of Magnetic Resonance</i> , 2012 , 223, 170-9	3	31
199	Dynamic nuclear polarization at 700 MHz/460 GHz. <i>Journal of Magnetic Resonance</i> , 2012 , 224, 1-7	3	79
198	¹ H dynamic nuclear polarization based on an endogenous radical. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7055-65	3.4	56
197	Dynamic nuclear polarization with a water-soluble rigid biradical. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4537-40	16.4	81
196	Dynamic Nuclear Polarization of Oxygen-17. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2030-2034	6.4	47

195	Rigid orthogonal bis-TEMPO biradicals with improved solubility for dynamic nuclear polarization. <i>Journal of Organic Chemistry</i> , 2012 , 77, 1789-97	4.2	66
194	Solid effect in magic angle spinning dynamic nuclear polarization. <i>Journal of Chemical Physics</i> , 2012 , 137, 054201	3.9	54
193	Solid effect dynamic nuclear polarization and polarization pathways. <i>Journal of Chemical Physics</i> , 2012 , 136, 015101	3.9	82
192	An amyloid organelle, solid-state NMR evidence for cross-assembly of gas vesicles. <i>Journal of Biological Chemistry</i> , 2012 , 287, 3479-84	5.4	23
191	2011 ,		7
190	Recent progress at MIT on THz gyrotron oscillators for DNP/NMR 2011 ,		2
189	High-field dynamic nuclear polarization with high-spin transition metal ions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5648-51	16.4	108
188	THz Dynamic Nuclear Polarization NMR. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2011 , 1, 145-163	3.4	120
187	Recoupling in solid state NMR using ρ -prepared states and phase matching. <i>Journal of Magnetic Resonance</i> , 2011 , 212, 402-11	3	11
186	Dynamic nuclear polarization at 9T using a novel 250 gyrotron microwave source. <i>Journal of Magnetic Resonance</i> , 2011 , 213, 410-2	3	4
185	Dynamic nuclear polarization at 9T using a novel 250 GHz gyrotron microwave source. 2003. <i>Journal of Magnetic Resonance</i> , 2011 , 213, 404-9	3	10
184	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	2.9	122
183	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, 13967-74	16.4	146
182	Quantum mechanical theory of dynamic nuclear polarization in solid dielectrics. <i>Journal of Chemical Physics</i> , 2011 , 134, 125105	3.9	117
181	Microwave field distribution in a magic angle spinning dynamic nuclear polarization NMR probe. <i>Journal of Magnetic Resonance</i> , 2011 , 210, 16-23	3	65
180	Proton-driven spin diffusion in rotating solids via reversible and irreversible quantum dynamics. <i>Journal of Chemical Physics</i> , 2011 , 135, 134509	3.9	24
179	Heteronuclear proton assisted recoupling. <i>Journal of Chemical Physics</i> , 2011 , 134, 095101	3.9	43
178	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, 1150-1160	1.3	164

177	Solid-state NMR characterization of gas vesicle structure. <i>Biophysical Journal</i> , 2010 , 99, 1932-9	2.9	33
176	Intermolecular alignment in α -microglobulin amyloid fibrils. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17077-9	16.4	66
175	High-resolution MAS NMR analysis of PI3-SH3 amyloid fibrils: backbone conformation and implications for protofilament assembly and structure. <i>Biochemistry</i> , 2010 , 49, 7474-84	3.2	49
174	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> , 2010 , 132, 10958-60	16.4	70
173	Structural characterization of GNNQQNY amyloid fibrils by magic angle spinning NMR. <i>Biochemistry</i> , 2010 , 49, 9457-69	3.2	60
172	Magic angle spinning NMR analysis of beta2-microglobulin amyloid fibrils in two distinct morphologies. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10414-23	16.4	73
171	Accurate determination of interstrand distances and alignment in amyloid fibrils by magic angle spinning NMR. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13555-61	3.4	25
170	Resolution and polarization distribution in cryogenic DNP/MAS experiments. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5861-7	3.6	80
169	High-resolution solid-state NMR structure of a 17.6 kDa protein. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1032-40	16.4	110
168	Optimization of THz wave coupling into samples in DNP/NMR spectroscopy 2010 ,		1
167	Properties of dinitroxides for use in dynamic nuclear polarization (DNP). <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5841-5	3.6	55
166	^2H -DNP-enhanced ^2H - ^{13}C solid-state NMR correlation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5872-8	3.6	52
165	Dynamic nuclear polarization-enhanced solid-state NMR spectroscopy of GNNQQNY nanocrystals and amyloid fibrils. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5911-9	3.6	110
164	Solid-state dynamic nuclear polarization at 263 GHz: spectrometer design and experimental results. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5850-60	3.6	279
163	High-Frequency Dynamic Nuclear Polarization 2010 ,		1
162	In situ high-field dynamic nuclear polarization--direct and indirect polarization of ^{13}C nuclei. <i>ChemPhysChem</i> , 2010 , 11, 999-1001	3.2	43
161	Dynamische Kernpolarisation bei deuterierten Proteinen. <i>Angewandte Chemie</i> , 2010 , 122, 7971-7974	3.6	25
160	Dynamic nuclear polarization of deuterated proteins. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7803-6	16.4	138

159	Rapid three-dimensional MAS NMR spectroscopy at critical sensitivity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9215-8	16.4	33
158	DNP enhanced frequency-selective TEDOR experiments in bacteriorhodopsin. <i>Journal of Magnetic Resonance</i> , 2010 , 202, 9-13	3	49
157	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	2.9	9
156	Dipolar truncation in magic-angle spinning NMR recoupling experiments. <i>Journal of Chemical Physics</i> , 2009 , 130, 114506	3.9	144
155	Targeted ¹³ C- ¹³ C distance measurements in a microcrystalline protein via J-decoupled rotational resonance width measurements. <i>ChemPhysChem</i> , 2009 , 10, 1656-63	3.2	11
154	Dynamic nuclear polarization with a rigid biradical. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4996-5000	16.4	230
153	Long-range correlations between aliphatic ¹³ C nuclei in protein MAS NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5708-10	16.4	31
152	Cryogenic sample exchange NMR probe for magic angle spinning dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2009 , 198, 261-70	3	99
151	Chemical shift anisotropy selective inversion. <i>Journal of Magnetic Resonance</i> , 2009 , 200, 233-8	3	1
150	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> , 2009 , 199, 173-87	3	22
149	High-resolution solid-state NMR structure of alanyl-prolyl-glycine. <i>Journal of Magnetic Resonance</i> , 2009 , 200, 95-100	3	11
148	In situ temperature-jump dynamic nuclear polarization: enhanced sensitivity in two dimensional ¹³ C- ¹³ C correlation spectroscopy in solution. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12-3	16.4	34
147	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> , 2009 , 131, 118-28	16.4	68
146	(¹⁵ N)-(¹⁵ N) proton assisted recoupling in magic angle spinning NMR. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5769-76	16.4	49
145	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> , 2009 , 106, 9244-9	11.5	276
144	Proton assisted recoupling at high spinning frequencies. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9062-9	3.9	56
143	Synthesis of a BDPA-TEMPO biradical. <i>Organic Letters</i> , 2009 , 11, 1871-4	6.2	56
142	Dynamic nuclear polarization at high magnetic fields. <i>Journal of Chemical Physics</i> , 2008 , 128, 052211	3.9	638

141	Proton assisted recoupling and protein structure determination. <i>Journal of Chemical Physics</i> , 2008 , 129, 245101	3.9	164
140	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> , 2008 , 105, 883-8	11.5	178
139	Spin dynamics in the modulation frame: application to homonuclear recoupling in magic angle spinning solid-state NMR. <i>Journal of Chemical Physics</i> , 2008 , 128, 124503	3.9	44
138	High-frequency dynamic nuclear polarization using biradicals: a multifrequency EPR lineshape analysis. <i>Journal of Chemical Physics</i> , 2008 , 128, 052302	3.9	153
137	Radio frequency-driven recoupling at high magic-angle spinning frequencies: homonuclear recoupling sans heteronuclear decoupling. <i>Journal of Chemical Physics</i> , 2008 , 128, 052321	3.9	66
136	High-Field Dynamic Nuclear Polarization for Solid and Solution Biological NMR. <i>Applied Magnetic Resonance</i> , 2008 , 34, 237-263	0.8	266
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1	Cross polarization in the tilted frame: assignment and spectral simplification in heteronuclear spin systems		41