

# Songi Han

## 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.

160  
papers

4,590  
citations

40  
h-index

56  
g-index

175  
ext. papers

5,413  
ext. citations

7.3  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
160	Confinement Promotes Hydrogen Bond Network Formation and Grotthuss Proton Hopping in Ion-Conducting Block Copolymers. <i>Macromolecules</i> , <b>2022</b> , 55, 615-622	5.5	2
159	Solid-state MAS NMR at ultra low temperature of hydrated alanine doped with DNP radicals. <i>Journal of Magnetic Resonance</i> , <b>2021</b> , 333, 107090	3	2
158	Quantifying Polypeptoid Conformational Landscapes through Integrated Experiment and Simulation. <i>Macromolecules</i> , <b>2021</b> , 54, 5011-5021	5.5	2
157	Liquid-liquid phase separation of Tau by self and complex coacervation. <i>Protein Science</i> , <b>2021</b> , 30, 1393-1407	14.9	14
156	Homo-oligomerization of the human adenosine A receptor is driven by the intrinsically disordered C-terminus. <i>ELife</i> , <b>2021</b> , 10,	8.9	5
155	Liquid-Liquid Phase Separation of Tau Driven by Hydrophobic Interaction Facilitates Fibrillization of Tau. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 166731	6.5	29
154	Dynamic Nuclear Polarization with Vanadium(IV) Metal Centers. <i>Chem</i> , <b>2021</b> , 7, 421-435	16.2	8
153	P-Site Structural Diversity and Evolution in a Zeosil Catalyst. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 1968-1983	16.4	9
152	Light-Switchable and Self-Healable Polymer Electrolytes Based on Dynamic Diarylethene and Metal-Ion Coordination. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 1562-1569	16.4	11
151	Redox-Active Polymeric Ionic Liquids with Pendant N-Substituted Phenothiazine. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 5319-5326	9.5	1
150	Role of electron spin dynamics and coupling network in designing dynamic nuclear polarization. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>2021</b> , 126-127, 1-16	10.4	1
149	End-to-End Distance Probability Distributions of Dilute Poly(ethylene oxide) in Aqueous Solution. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 19631-19641	16.4	7
148	Balancing dipolar and exchange coupling in biradicals to maximize cross effect dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 13569-13579	3.6	14
147	Electrostatic Environment of Proteorhodopsin Affects the pKa of Its Buried Primary Proton Acceptor. <i>Biophysical Journal</i> , <b>2020</b> , 118, 1838-1849	2.9	5
146	Mechanisms of Heparin-Induced Tau Aggregation Revealed by a Single Nanopore. <i>ACS Sensors</i> , <b>2020</b> , 5, 1158-1167	9.2	14
145	The Role of Backbone Polarity on Aggregation and Conduction of Ions in Polymer Electrolytes. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7055-7065	16.4	53
144	Water Structure and Properties at Hydrophilic and Hydrophobic Surfaces. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2020</b> , 11, 523-557	8.9	31

143	Dehydration entropy drives liquid-liquid phase separation by molecular crowding. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	43
142	Electrostatically Driven Complex Coacervation and Amyloid Aggregation of Tau Are Independent Processes with Overlapping Conditions. <i>ACS Chemical Neuroscience</i> , <b>2020</b> , 11, 615-627	5.7	37
141	Dressed Rabi Oscillation in a Crystalline Organic Radical. <i>Physical Review Letters</i> , <b>2020</b> , 124, 047201	7.4	1
140	Crossover from a Solid Effect to Thermal Mixing H Dynamic Nuclear Polarization with Trityl-OX063. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3718-3723	6.4	8
139	The proline-rich domain promotes Tau liquid-liquid phase separation in cells. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	27
138	H Thermal Mixing Dynamic Nuclear Polarization with BDPA as Polarizing Agents. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 9195-9202	6.4	4
137	Trigonal Bipyramidal V Complex as an Optically Addressable Molecular Qubit Candidate. <i>Journal of the American Chemical Society</i> , <b>2020</b> ,	16.4	19
136	Tuning molecular adsorption in SBA-15-type periodic mesoporous organosilicas by systematic variation of their surface polarity. <i>Chemical Science</i> , <b>2020</b> , 11, 3702-3712	9.4	4
135	Structure of Membrane-Bound Huntingtin Exon 1 Reveals Membrane Interaction and Aggregation Mechanisms. <i>Structure</i> , <b>2019</b> , 27, 1570-1580.e4	5.2	11
134	Electron spin density matching for cross-effect dynamic nuclear polarization. <i>Chemical Communications</i> , <b>2019</b> , 55, 7591-7594	5.8	9
133	Biradical rotamer states tune electron J coupling and MAS dynamic nuclear polarization enhancement. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2019</b> , 101, 12-20	3.1	7
132	Proteorhodopsin Function Is Primarily Mediated by Oligomerization in Different Micellar Surfactant Solutions. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 4180-4192	3.4	6
131	Narrow equilibrium window for complex coacervation of tau and RNA under cellular conditions. <i>ELife</i> , <b>2019</b> , 8,	8.9	72
130	Tau Condensates. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1184, 327-339	3.6	6
129	Tau-Cofactor Complexes as Building Blocks of Tau Fibrils. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 1339	5.1	17
128	Pulse-Shaped Dynamic Nuclear Polarization under Magic-Angle Spinning. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7781-7788	6.4	9
127	Cross-Effect Dynamic Nuclear Polarization Explained: Polarization, Depolarization, and Oversaturation. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 548-558	6.4	19
126	Overhauser Dynamic Nuclear Polarization for the Study of Hydration Dynamics, Explained. <i>Methods in Enzymology</i> , <b>2019</b> , 615, 131-175	1.7	10

125	Surface chemical heterogeneity modulates silica surface hydration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2890-2895	11.5	57
124	Reversal of Paramagnetic Effects by Electron Spin Saturation. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5578-5589	3.8	11
123	Perspective of Overhauser dynamic nuclear polarization for the study of soft materials. <i>Current Opinion in Colloid and Interface Science</i> , <b>2018</b> , 33, 72-85	7.6	16
122	Quantitative analysis of zero-field splitting parameter distributions in Gd(III) complexes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 10470-10492	3.6	24
121	Truncated Cross Effect Dynamic Nuclear Polarization: An Overhauser Effect Doppelgänger. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2175-2180	6.4	20
120	Heparin-induced tau filaments are structurally heterogeneous and differ from Alzheimer's disease filaments. <i>Chemical Communications</i> , <b>2018</b> , 54, 4573-4576	5.8	37
119	Tuning conformation and properties of peptidomimetic backbones through dual N/C-substitution. <i>Chemical Communications</i> , <b>2018</b> , 54, 5237-5240	5.8	10
118	Effect of water/glycerol polymorphism on dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 9897-9903	3.6	16
117	Functionally Active Membrane Proteins Incorporated in Mesostructured Silica Films. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3892-3906	16.4	7
116	Decoupling Bulk Mechanics and Mono- and Multivalent Ion Transport in Polymers Based on Metal-Ligand Coordination. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5759-5769	9.6	34
115	Heterogeneity of Network Structures and Water Dynamics in Carrageenan Gels Probed by Nanoparticle Diffusometry. <i>Langmuir</i> , <b>2018</b> , 34, 11110-11120	4	6
114	Multi-step phase-cycling in a free-electron laser-powered pulsed electron paramagnetic resonance spectrometer. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 18097-18109	3.6	5
113	Maximizing NMR signal per unit time by facilitating the e-e-n cross effect DNP rate. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 27646-27657	3.6	15
112	Cofactors are essential constituents of stable and seeding-active tau fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 13234-13239	11.5	47
111	Effect of nitroxide spin probes on the transport properties of Nafion membranes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 26660-26674	3.6	4
110	Tuning nuclear depolarization under MAS by electron T. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 23976-23987	3.6	11
109	Amplification of Dynamic Nuclear Polarization at 200 GHz by Arbitrary Pulse Shaping of the Electron Spin Saturation Profile. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3110-3115	6.4	12
108	Gd-Gd distances exceeding 3 nm determined by very high frequency continuous wave electron paramagnetic resonance. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 5127-5136	3.6	14

107	Effect of electron spectral diffusion on static dynamic nuclear polarization at 7 Tesla. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 3596-3605	3.6	26
106	Arbitrary waveform modulated pulse EPR at 200GHz. <i>Journal of Magnetic Resonance</i> , <b>2017</b> , 279, 81-90	3	26
105	Water Dynamics from the Surface to the Interior of a Supramolecular Nanostructure. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8915-8921	16.4	43
104	Signature of an aggregation-prone conformation of tau. <i>Scientific Reports</i> , <b>2017</b> , 7, 44739	4.9	48
103	Spatially Heterogeneous Surface Water Diffusivity around Structured Protein Surfaces at Equilibrium. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17890-17901	16.4	39
102	Universal Dynamics of Molecular Reorientation in Hybrid Lead Iodide Perovskites. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 16875-16884	16.4	103
101	Location of the TEMPO Moiety of TEMPO-PC in Lipid Bilayers. <i>Biophysical Journal</i> , <b>2017</b> , 113, 966-969	2.9	4
100	Proton-Based Structural Analysis of a Heptahelical Transmembrane Protein in Lipid Bilayers. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13006-13012	16.4	32
99	Molecular and structural basis of low interfacial energy of complex coacervates in water. <i>Advances in Colloid and Interface Science</i> , <b>2017</b> , 239, 61-73	14.3	33
98	Simple peptide coacervates adapted for rapid pressure-sensitive wet adhesion. <i>Soft Matter</i> , <b>2017</b> , 13, 9122-9131	3.6	18
97	Conformation-based assay of tau protein aggregation. <i>Methods in Cell Biology</i> , <b>2017</b> , 141, 89-112	1.8	10
96	RNA stores tau reversibly in complex coacervates. <i>PLoS Biology</i> , <b>2017</b> , 15, e2002183	9.7	158
95	Adenosine A2a receptors form distinct oligomers in protein detergent complexes. <i>FEBS Letters</i> , <b>2016</b> , 590, 3295-306	3.8	9
94	Hydration Dynamics of a Peripheral Membrane Protein. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 11526-35	16.4	40
93	A versatile and modular quasi optics-based 200GHz dual dynamic nuclear polarization and electron paramagnetic resonance instrument. <i>Journal of Magnetic Resonance</i> , <b>2016</b> , 264, 131-153	3	28
92	Surface water retardation around single-chain polymeric nanoparticles: critical for catalytic function?. <i>Chemical Science</i> , <b>2016</b> , 7, 2011-2015	9.4	30
91	Protein structural and surface water rearrangement constitute major events in the earliest aggregation stages of tau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E127-36	11.5	48
90	Communication: Contrasting effects of glycerol and DMSO on lipid membrane surface hydration dynamics and forces. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 041101	3.9	34

89	Stability of Protein-Specific Hydration Shell on Crowding. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5392-402	16.4	29
88	Bicontinuous Fluid Structure with Low Cohesive Energy: Molecular Basis for Exceptionally Low Interfacial Tension of Complex Coacervate Fluids. <i>ACS Nano</i> , <b>2016</b> , 10, 5051-62	16.7	38
87	Functional consequences of the oligomeric assembly of proteorhodopsin. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 1278-1290	6.5	29
86	DMSO induces dehydration near lipid membrane surfaces. <i>Biophysical Journal</i> , <b>2015</b> , 109, 330-9	2.9	57
85	Ion specific effects: decoupling ion-ion and ion-water interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8306-22	3.6	16
84	Direct dynamic nuclear polarization targeting catalytically active (27)Al sites. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 25449-54	3.6	16
83	Tau Aggregation Propensity Engrained in Its Solution State. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 14421-32	3.4	21
82	Anomalously Rapid Hydration Water Diffusion Dynamics Near DNA Surfaces. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 12013-23	16.4	48
81	Correlating steric hydration forces with water dynamics through surface force and diffusion NMR measurements in a lipid-DMSO-H <sub>2</sub> O system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 10708-13	11.5	24
80	Mussel Coating Protein-Derived Complex Coacervates Mitigate Frictional Surface Damage. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 1121-1128	5.5	27
79	Overhauser Dynamic Nuclear Polarization Studies on Local Water Dynamics. <i>Methods in Enzymology</i> , <b>2015</b> , 564, 457-83	1.7	18
78	Active cancellation - A means to zero dead-time pulse EPR. <i>Journal of Magnetic Resonance</i> , <b>2015</b> , 261, 199-204	3	8
77	Nanometer-scale water- and proton-diffusion heterogeneities across water channels in polymer electrolyte membranes. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3615-20	16.4	36
76	Mapping Out Protein Hydration Dynamics by Overhauser Dynamic Nuclear Polarization. <i>Biological Magnetic Resonance</i> , <b>2015</b> , 43-74	0.5	1
75	Determining the oligomeric structure of proteorhodopsin by Gd <sup>3+</sup> -based pulsed dipolar spectroscopy of multiple distances. <i>Structure</i> , <b>2014</b> , 22, 1677-86	5.2	64
74	Fluidity and water in nanoscale domains define coacervate hydrogels. <i>Chemical Science</i> , <b>2014</b> , 5, 58-67	9.4	40
73	Effect of electron spin dynamics on solid-state dynamic nuclear polarization performance. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 18694-706	3.6	40
72	Specific ions modulate diffusion dynamics of hydration water on lipid membrane surfaces. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 2642-9	16.4	32

71	Probing water density and dynamics in the chaperonin GroEL cavity. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9396-403	16.4	20
70	Local water diffusivity as a molecular probe of surface hydrophilicity. <i>MRS Bulletin</i> , <b>2014</b> , 39, 1082-1088	3.2	10
69	Cholesterol enhances surface water diffusion of phospholipid bilayers. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 22D513	3.9	16
68	Intrinsic surface-drying properties of bioadhesive proteins. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11253-6	16.4	57
67	Intrinsic Surface-Drying Properties of Bioadhesive Proteins. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 11435-11438	3.6	23
66	Extending the distance range accessed with continuous wave EPR with Gd3+ spin probes at high magnetic fields. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11313-26	3.6	24
65	DAC-board based X-band EPR spectrometer with arbitrary waveform control. <i>Journal of Magnetic Resonance</i> , <b>2013</b> , 235, 95-108	3	42
64	Overhauser Dynamic Nuclear Polarization-Enhanced NMR Relaxometry. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 178, 113-118	5.3	12
63	Transmembrane protein activation refined by site-specific hydration dynamics. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 1953-8	16.4	43
62	Temperature dependence of high field 13C dynamic nuclear polarization processes with trityl radicals below 35 Kelvin. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 15106-20	3.6	22
61	Phase cycling with a 240 GHz, free electron laser-powered electron paramagnetic resonance spectrometer. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 5707-19	3.6	10
60	Quantitative cw Overhauser effect dynamic nuclear polarization for the analysis of local water dynamics. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>2013</b> , 74, 33-56	10.4	81
59	Structural insight into proteorhodopsin oligomers. <i>Biophysical Journal</i> , <b>2013</b> , 104, 472-81	2.9	47
58	Nonlinear scaling of surface water diffusion with bulk water viscosity of crowded solutions. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 4175-8	16.4	29
57	Asymmetric collapse in biomimetic complex coacervates revealed by local polymer and water dynamics. <i>Biomacromolecules</i> , <b>2013</b> , 14, 1395-402	6.9	29
56	Dynamic nuclear polarization methods in solids and solutions to explore membrane proteins and membrane systems. <i>Annual Review of Physical Chemistry</i> , <b>2013</b> , 64, 507-32	15.7	38
55	Hydration dynamics as an intrinsic ruler for refining protein structure at lipid membrane interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16838-43	11.5	60
54	Transmembrane Protein Activation Refined by Site-Specific Hydration Dynamics. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 2007-2012	3.6	5

53	An ultrasensitive tool exploiting hydration dynamics to decipher weak lipid membrane-polymer interactions. <i>Journal of Magnetic Resonance</i> , <b>2012</b> , 215, 115-9	3	28
52	Overhauser dynamic nuclear polarization amplification of NMR flow imaging. <i>Journal of Magnetic Resonance</i> , <b>2012</b> , 216, 94-100	3	12
51	Quantitative analysis of molecular transport across liposomal bilayer by J-mediated <sup>13</sup> C Overhauser dynamic nuclear polarization. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8936-40	7.8	11
50	Nature of interactions between PEO-PPO-PEO triblock copolymers and lipid membranes: (II) role of hydration dynamics revealed by dynamic nuclear polarization. <i>Biomacromolecules</i> , <b>2012</b> , 13, 2624-33	6.9	75
49	Pulsed electron paramagnetic resonance spectroscopy powered by a free-electron laser. <i>Nature</i> , <b>2012</b> , 489, 409-13	50.4	75
48	Distance measurements across randomly distributed nitroxide probes from the temperature dependence of the electron spin phase memory time at 240 GHz. <i>Journal of Magnetic Resonance</i> , <b>2012</b> , 223, 198-206	3	13
47	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1480, 1		
46	Hyperpolarized water as an MR imaging contrast agent: feasibility of in vivo imaging in a rat model. <i>Radiology</i> , <b>2012</b> , 265, 418-25	20.5	38
45	Solution-State Dynamic Nuclear Polarization. <i>Annual Reports on NMR Spectroscopy</i> , <b>2011</b> , 83-126	1.7	23
44	Site-specific hydration dynamics in the nonpolar core of a molten globule by dynamic nuclear polarization of water. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5987-95	16.4	88
43	Dynamics and state of lipid bilayer-internal water unraveled with solution state <sup>1</sup> H dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7732-46	3.6	43
42	Probing the hydration water diffusion of macromolecular surfaces and interfaces. <i>New Journal of Physics</i> , <b>2011</b> , 13, 015006	2.9	46
41	A 200 GHz dynamic nuclear polarization spectrometer. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5920-6	3.6	42
40	L-band Overhauser dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , <b>2010</b> , 203, 138-43	3	14
39	Heisenberg spin exchange effects of nitroxide radicals on Overhauser dynamic nuclear polarization in the low field limit at 1.5mT. <i>Journal of Magnetic Resonance</i> , <b>2010</b> , 204, 56-63	3	19
38	Continuous flow Overhauser dynamic nuclear polarization of water in the fringe field of a clinical magnetic resonance imaging system for authentic image contrast. <i>Journal of Magnetic Resonance</i> , <b>2010</b> , 205, 247-54	3	40
37	Dynamic nuclear polarization of <sup>13</sup> C in aqueous solutions under ambient conditions. <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 201, 137-45	3	28
36	Overhauser dynamic nuclear polarization and molecular dynamics simulations using pyrroline and piperidine ring nitroxide radicals. <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 200, 137-41	3	20



35	Local Water Dynamics in Coacervated Polyelectrolytes Monitored Through Dynamic Nuclear Polarization-Enhanced H NMR. <i>Macromolecules</i> , <b>2009</b> , 42, 7404-7412	5.5	49
34	Overhauser dynamic nuclear polarization to study local water dynamics. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 4641-7	16.4	123
33	Ultrasensitive detection of interfacial water diffusion on lipid vesicle surfaces at molecular length scales. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 18254-6	16.4	39
32	Site-specific dynamic nuclear polarization of hydration water as a generally applicable approach to monitor protein aggregation. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 6833-9	3.6	35
31	Dynamic nuclear polarization enhanced nuclear magnetic resonance and electron spin resonance studies of hydration and local water dynamics in micelle and vesicle assemblies. <i>Langmuir</i> , <b>2008</b> , 24, 10062-72	4.2	39
30	Spin-labeled gel for the production of radical-free dynamic nuclear polarization enhanced molecules for NMR spectroscopy and imaging. <i>Journal of Magnetic Resonance</i> , <b>2008</b> , 190, 307-15	3	40
29	Dynamic Nuclear Polarization Studies of Local Water Dynamics in Soft Molecular Assemblies at 9.8 GHz. <i>Applied Magnetic Resonance</i> , <b>2008</b> , 34, 439-451	0.8	8
28	Portable X-band system for solution state dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , <b>2008</b> , 191, 273-81	3	55
27	para-Hydrogen-induced polarization in heterogeneous hydrogenation reactions. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 5580-6	16.4	140
26	A new model for Overhauser enhanced nuclear magnetic resonance using nitroxide radicals. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 104508	3.9	112
25	Hyperpolarized water as an authentic magnetic resonance imaging contrast agent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 1754-9	11.5	88
24	Auxiliary probe design adaptable to existing probes for remote detection NMR, MRI, and time-of-flight tracing. <i>Journal of Magnetic Resonance</i> , <b>2006</b> , 182, 260-72	3	9
23	NMR analysis on microfluidic devices by remote detection. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 8109-14	7.8	43
22	Time-of-flight flow imaging using NMR remote detection. <i>Physical Review Letters</i> , <b>2005</b> , 95, 075503	7.4	65
21	NMR-based biosensing with optimized delivery of polarized <sup>129</sup> Xe to solutions. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 4008-12	7.8	49
20	Microfluidic gas-flow profiling using remote-detection NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 14960-3	11.5	72
19	Three-dimensional phase-encoded chemical shift MRI in the presence of inhomogeneous fields. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 8845-7	11.5	22
18	Imaging of a mixture of hyperpolarized <sup>3</sup> He and <sup>129</sup> Xe. <i>Magnetic Resonance Imaging</i> , <b>2004</b> , 22, 1077-83	3.3	8

17	Proton magnetic resonance imaging of diffusion of high- and low-molecular-weight contrast agents in opaque porous media saturated with water. <i>Magnetic Resonance Imaging</i> , <b>2004</b> , 22, 1039-42	3.3	14
16	Time resolved spectroscopic NMR imaging using hyperpolarized <sup>129</sup> Xe. <i>Journal of Magnetic Resonance</i> , <b>2004</b> , 167, 298-305	3	8
15	Amplification of xenon NMR and MRI by remote detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 9122-7	11.5	96
14	Shpol'skii spectroscopy and vibrational analysis of [N]phenylenes. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 4563	3.6	12
13	In situ observation of diffusion and reaction dynamics in gel microreactors by chemically resolved NMR microscopy. <i>Applied Magnetic Resonance</i> , <b>2002</b> , 22, 235	0.8	21
12	Spectrally resolved velocity exchange spectroscopy of two-phase flow. <i>Journal of Magnetic Resonance</i> , <b>2002</b> , 159, 36-45	3	4
11	Photophysical properties of [N]phenylenes. <i>Physical Chemistry Chemical Physics</i> , <b>2002</b> , 4, 2156-2161	3.6	33
10	Analysis of Slow Motion by Multidimensional NMR <b>2002</b> , 3-14		
9	Spatio-Temporal Correlations in Gravity-Driven and Pressure-Driven Fluid Transport Processes <b>2002</b> , 423-432		
8	Two-dimensional NMR of velocity exchange: VEXSY and SERPENT. <i>Journal of Magnetic Resonance</i> , <b>2001</b> , 152, 162-7	3	18
7	NMR imaging of falling water drops. <i>Physical Review Letters</i> , <b>2001</b> , 87, 144501	7.4	28
6	Two-dimensional representation of position, velocity and acceleration by PFG-NMR. <i>Applied Magnetic Resonance</i> , <b>2000</b> , 18, 101-114	0.8	17
5	Dynamic Nuclear Polarization-Enhanced Magnetic Resonance Analysis at X-Band Using Amplified <sup>1</sup> H Water Signal 161-176		1
4	Oligomerization of the Human Adenosine A2A Receptor is Driven by the Intrinsically Disordered C-terminus		1
3	RNA Stores Tau Reversibly in Complex Coacervates		4
2	Narrow equilibrium window for complex coacervation of tau and RNA under cellular conditions		4
1	Liquid-liquid phase separation and fibrillization of tau are independent processes with overlapping conditions		1