

Songi Han

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Evidence for Entropically Controlled Interfacial Hydration in Mesoporous Organosilicas. <i>Journal of the American Chemical Society</i> , 2022, 144, 1766-1777.	13.7	20
2	Confinement Promotes Hydrogen Bond Network Formation and Grotthuss Proton Hopping in Ion-Conducting Block Copolymers. <i>Macromolecules</i> , 2022, 55, 615-622.	4.8	12
3	Sequence Modulates Polypeptoid Hydration Water Structure and Dynamics. <i>Biomacromolecules</i> , 2022, 23, 1745-1756.	5.4	11
4	Liquid-Liquid Phase Separation of Tau Driven by Hydrophobic Interaction Facilitates Fibrillization of Tau. <i>Journal of Molecular Biology</i> , 2021, 433, 166731.	4.2	75
5	Dynamic Nuclear Polarization with Vanadium(IV) Metal Centers. <i>CheM</i> , 2021, 7, 421-435.	11.7	20
6	P-Site Structural Diversity and Evolution in a Zeosil Catalyst. <i>Journal of the American Chemical Society</i> , 2021, 143, 1968-1983.	13.7	17
7	Light-Switchable and Self-Healable Polymer Electrolytes Based on Dynamic Diarylethene and Metal-Ion Coordination. <i>Journal of the American Chemical Society</i> , 2021, 143, 1562-1569.	13.7	31
8	Redox-Active Polymeric Ionic Liquids with Pendant N-Substituted Phenothiazine. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5319-5326.	8.0	3
9	Quantifying Polypeptoid Conformational Landscapes through Integrated Experiment and Simulation. <i>Macromolecules</i> , 2021, 54, 5011-5021.	4.8	9
10	Liquid-liquid phase separation of Tau by self and complex coacervation. <i>Protein Science</i> , 2021, 30, 1393-1407.	7.6	34
11	Homo-oligomerization of the human adenosine A2A receptor is driven by the intrinsically disordered C-terminus. <i>ELife</i> , 2021, 10, .	6.0	8
12	Role of electron spin dynamics and coupling network in designing dynamic nuclear polarization. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2021, 126-127, 1-16.	7.5	11
13	Solid-state MAS NMR at ultra low temperature of hydrated alanine doped with DNP radicals. <i>Journal of Magnetic Resonance</i> , 2021, 333, 107090.	2.1	4
14	¹ H Thermal Mixing Dynamic Nuclear Polarization with BDPA as Polarizing Agents. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9195-9202.	4.6	13
15	Trigonal Bipyramidal V ³⁺ Complex as an Optically Addressable Molecular Qubit Candidate. <i>Journal of the American Chemical Society</i> , 2020, 142, 20400-20408.	13.7	46
16	End-to-End Distance Probability Distributions of Dilute Poly(ethylene oxide) in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2020, 142, 19631-19641.	13.7	22
17	Balancing dipolar and exchange coupling in biradicals to maximize cross effect dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13569-13579.	2.8	27
18	Electrostatic Environment of Proteorhodopsin Affects the pKa of Its Buried Primary Proton Acceptor. <i>Biophysical Journal</i> , 2020, 118, 1838-1849.	0.5	9

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19	Mechanisms of Heparin-Induced Tau Aggregation Revealed by a Single Nanopore. <i>ACS Sensors</i> , 2020, 5, 1158-1167.	7.8	27
20	The Role of Backbone Polarity on Aggregation and Conduction of Ions in Polymer Electrolytes. <i>Journal of the American Chemical Society</i> , 2020, 142, 7055-7065.	13.7	80
21	Water Structure and Properties at Hydrophilic and Hydrophobic Surfaces. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 523-557.	6.8	57
22	Dehydration entropy drives liquid-liquid phase separation by molecular crowding. <i>Communications Chemistry</i> , 2020, 3, .	4.5	97
23	Electrostatically Driven Complex Coacervation and Amyloid Aggregation of Tau Are Independent Processes with Overlapping Conditions. <i>ACS Chemical Neuroscience</i> , 2020, 11, 615-627.	3.5	70
24	Dressed Rabi Oscillation in a Crystalline Organic Radical. <i>Physical Review Letters</i> , 2020, 124, 047201.	7.8	3
25	Crossover from a Solid Effect to Thermal Mixing ¹ H Dynamic Nuclear Polarization with Trityl-OX063. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3718-3723.	4.6	22
26	Tuning molecular adsorption in SBA-15-type periodic mesoporous organosilicas by systematic variation of their surface polarity. <i>Chemical Science</i> , 2020, 11, 3702-3712.	7.4	10
27	The proline-rich domain promotes Tau liquid-liquid phase separation in cells. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	58
28	Structure of Membrane-Bound Huntingtin Exon 1 Reveals Membrane Interaction and Aggregation Mechanisms. <i>Structure</i> , 2019, 27, 1570-1580.e4.	3.3	25
29	Electron spin density matching for cross-effect dynamic nuclear polarization. <i>Chemical Communications</i> , 2019, 55, 7591-7594.	4.1	14
30	Protein shapes at the core of chronic traumatic encephalopathy. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 336-338.	8.2	1
31	Biradical rotamer states tune electron J coupling and MAS dynamic nuclear polarization enhancement. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 101, 12-20.	2.3	13
32	Proteorhodopsin Function Is Primarily Mediated by Oligomerization in Different Micellar Surfactant Solutions. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4180-4192.	2.6	10
33	Tau-Cofactor Complexes as Building Blocks of Tau Fibrils. <i>Frontiers in Neuroscience</i> , 2019, 13, 1339.	2.8	35
34	Pulse-Shaped Dynamic Nuclear Polarization under Magic-Angle Spinning. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7781-7788.	4.6	19
35	Cross-Effect Dynamic Nuclear Polarization Explained: Polarization, Depolarization, and Oversaturation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 548-558.	4.6	29
36	Overhauser Dynamic Nuclear Polarization for the Study of Hydration Dynamics, Explained. <i>Methods in Enzymology</i> , 2019, 615, 131-175.	1.0	16

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37	Tau Condensates. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1184, 327-339.	1.6	11
38	Narrow equilibrium window for complex coacervation of tau and RNA under cellular conditions. <i>ELife</i> , 2019, 8, .	6.0	111
39	Surface chemical heterogeneity modulates silica surface hydration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2890-2895.	7.1	105
40	Reversal of Paramagnetic Effects by Electron Spin Saturation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5578-5589.	3.1	15
41	Perspective of Overhauser dynamic nuclear polarization for the study of soft materials. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 33, 72-85.	7.4	20
42	Quantitative analysis of zero-field splitting parameter distributions in Gd(III) complexes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10470-10492.	2.8	42
43	Truncated Cross Effect Dynamic Nuclear Polarization: An Overhauser Effect Doppelgänger. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2175-2180.	4.6	29
44	Heparin-induced tau filaments are structurally heterogeneous and differ from Alzheimer's disease filaments. <i>Chemical Communications</i> , 2018, 54, 4573-4576.	4.1	60
45	Tuning conformation and properties of peptidomimetic backbones through dual N/C [±] -substitution. <i>Chemical Communications</i> , 2018, 54, 5237-5240.	4.1	15
46	Effect of water/glycerol polymorphism on dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9897-9903.	2.8	26
47	Functionally Active Membrane Proteins Incorporated in Mesoporous Silica Films. <i>Journal of the American Chemical Society</i> , 2018, 140, 3892-3906.	13.7	13
48	Maximizing NMR signal per unit time by facilitating the cross effect DNP rate. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27646-27657.	2.8	23
49	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> , 2018, 115, 13234-13239.	7.1	84
50	Effect of nitroxide spin probes on the transport properties of Nafion membranes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26660-26674.	2.8	6
51	Tuning nuclear depolarization under MAS by electron T _{1ρ} . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23976-23987.	2.8	20
52	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> , 2018, 9, 3110-3115.	4.6	20
53	Decoupling Bulk Mechanics and Mono- and Multivalent Ion Transport in Polymers Based on Metal-Ligand Coordination. <i>Chemistry of Materials</i> , 2018, 30, 5759-5769.	6.7	43
54	Heterogeneity of Network Structures and Water Dynamics in $\hat{\nu}$ -Carrageenan Gels Probed by Nanoparticle Diffusometry. <i>Langmuir</i> , 2018, 34, 11110-11120.	3.5	10

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55	Multi-step phase-cycling in a free-electron laser-powered pulsed electron paramagnetic resonance spectrometer. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18097-18109.	2.8	6
56	Gd ³⁺ –Gd ³⁺ distances exceeding 3 nm determined by very high frequency continuous wave electron paramagnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5127-5136.	2.8	23
57	Effect of electron spectral diffusion on static dynamic nuclear polarization at 7 Tesla. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3596-3605.	2.8	35
58	Arbitrary waveform modulated pulse EPR at 200 GHz. <i>Journal of Magnetic Resonance</i> , 2017, 279, 81-90.	2.1	38
59	Water Dynamics from the Surface to the Interior of a Supramolecular Nanostructure. <i>Journal of the American Chemical Society</i> , 2017, 139, 8915-8921.	13.7	53
60	Signature of an aggregation-prone conformation of tau. <i>Scientific Reports</i> , 2017, 7, 44739.	3.3	69
61	Spatially Heterogeneous Surface Water Diffusivity around Structured Protein Surfaces at Equilibrium. <i>Journal of the American Chemical Society</i> , 2017, 139, 17890-17901.	13.7	60
62	Universal Dynamics of Molecular Reorientation in Hybrid Lead Iodide Perovskites. <i>Journal of the American Chemical Society</i> , 2017, 139, 16875-16884.	13.7	129
63	Location of the TEMPO Moiety of TEMPO-PC in Lipid Bilayers. <i>Biophysical Journal</i> , 2017, 113, 966-969.	0.5	7
64	Proton-Based Structural Analysis of a Heptahelical Transmembrane Protein in Lipid Bilayers. <i>Journal of the American Chemical Society</i> , 2017, 139, 13006-13012.	13.7	47
65	Molecular and structural basis of low interfacial energy of complex coacervates in water. <i>Advances in Colloid and Interface Science</i> , 2017, 239, 61-73.	14.7	54
66	Simple peptide coacervates adapted for rapid pressure-sensitive wet adhesion. <i>Soft Matter</i> , 2017, 13, 9122-9131.	2.7	29
67	Conformation-based assay of tau protein aggregation. <i>Methods in Cell Biology</i> , 2017, 141, 89-112.	1.1	14
68	RNA stores tau reversibly in complex coacervates. <i>PLoS Biology</i> , 2017, 15, e2002183.	5.6	235
69	Communication: Contrasting effects of glycerol and DMSO on lipid membrane surface hydration dynamics and forces. <i>Journal of Chemical Physics</i> , 2016, 145, 041101.	3.0	40
70	Stability of Protein-Specific Hydration Shell on Crowding. <i>Journal of the American Chemical Society</i> , 2016, 138, 5392-5402.	13.7	33
71	Bicontinuous Fluid Structure with Low Cohesive Energy: Molecular Basis for Exceptionally Low Interfacial Tension of Complex Coacervate Fluids. <i>ACS Nano</i> , 2016, 10, 5051-5062.	14.6	49
72	Adenosine A2a receptors form distinct oligomers in protein detergent complexes. <i>FEBS Letters</i> , 2016, 590, 3295-3306.	2.8	12

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73	Hydration Dynamics of a Peripheral Membrane Protein. <i>Journal of the American Chemical Society</i> , 2016, 138, 11526-11535.	13.7	57
74	A versatile and modular quasi optics-based 200 GHz dual dynamic nuclear polarization and electron paramagnetic resonance instrument. <i>Journal of Magnetic Resonance</i> , 2016, 264, 131-153.	2.1	37
75	Surface water retardation around single-chain polymeric nanoparticles: critical for catalytic function?. <i>Chemical Science</i> , 2016, 7, 2011-2015.	7.4	38
76	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> , 2016, 113, E127-36.	7.1	69
77	Overhauser Dynamic Nuclear Polarization Studies on Local Water Dynamics. <i>Methods in Enzymology</i> , 2015, 564, 457-483.	1.0	23
78	Active cancellation of a means to zero dead-time pulse EPR. <i>Journal of Magnetic Resonance</i> , 2015, 261, 199-204.	2.1	9
79	Nanometer-scale Water and Proton Diffusion Heterogeneities across Water Channels in Polymer Electrolyte Membranes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3615-3620.	13.8	38
80	Functional Consequences of the Oligomeric Assembly of Proteorhodopsin. <i>Journal of Molecular Biology</i> , 2015, 427, 1278-1290.	4.2	39
81	DMSO Induces Dehydration near Lipid Membrane Surfaces. <i>Biophysical Journal</i> , 2015, 109, 330-339.	0.5	78
82	Ion specific effects: decoupling ion-water interactions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8306-8322.	2.8	20
83	Direct dynamic nuclear polarization targeting catalytically active ²⁷ Al sites. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25449-25454.	2.8	20
84	Tau Aggregation Propensity Engrained in Its Solution State. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14421-14432.	2.6	30
85	Anomalously Rapid Hydration Water Diffusion Dynamics Near DNA Surfaces. <i>Journal of the American Chemical Society</i> , 2015, 137, 12013-12023.	13.7	59
86	Correlating steric hydration forces with water dynamics through surface force and diffusion NMR measurements in a lipid-DMSO-H ₂ O system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10708-10713.	7.1	32
87	Mussel Coating Protein-Derived Complex Coacervates Mitigate Frictional Surface Damage. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1121-1128.	5.2	33
88	Mapping Out Protein Hydration Dynamics by Overhauser Dynamic Nuclear Polarization. <i>Biological Magnetic Resonance</i> , 2015, , 43-74.	0.4	1
89	Local water diffusivity as a molecular probe of surface hydrophilicity. <i>MRS Bulletin</i> , 2014, 39, 1082-1088.	3.5	12
90	Cholesterol enhances surface water diffusion of phospholipid bilayers. <i>Journal of Chemical Physics</i> , 2014, 141, 22D513.	3.0	26

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91	Intrinsic Surface Drying Properties of Bioadhesive Proteins. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11253-11256.	13.8	72
92	Tuning Function of the Light-Driven Proteorhodopsin Proton Pump by Formation of Oligomeric and Surfactant-Based Synthetic Complexes. <i>Biophysical Journal</i> , 2014, 106, 370a.	0.5	0
93	Determining the Oligomeric Structure of Proteorhodopsin by Gd ³⁺ -Based Pulsed Dipolar Spectroscopy of Multiple Distances. <i>Structure</i> , 2014, 22, 1677-1686.	3.3	72
94	Fluidity and water in nanoscale domains define coacervate hydrogels. <i>Chemical Science</i> , 2014, 5, 58-67.	7.4	48
95	Effect of electron spin dynamics on solid-state dynamic nuclear polarization performance. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18694-18706.	2.8	47
96	Specific Ions Modulate Diffusion Dynamics of Hydration Water on Lipid Membrane Surfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 2642-2649.	13.7	36
97	Probing Water Density and Dynamics in the Chaperonin GroEL Cavity. <i>Journal of the American Chemical Society</i> , 2014, 136, 9396-9403.	13.7	25
98	Extending the distance range accessed with continuous wave EPR with Gd ³⁺ spin probes at high magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11313.	2.8	35
99	DAC-board based X-band EPR spectrometer with arbitrary waveform control. <i>Journal of Magnetic Resonance</i> , 2013, 235, 95-108.	2.1	48
100	Overhauser dynamic nuclear polarization-enhanced NMR relaxometry. <i>Microporous and Mesoporous Materials</i> , 2013, 178, 113-118.	4.4	15
101	Transmembrane Protein Activation Refined by Site-Specific Hydration Dynamics. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1953-1958.	13.8	49
102	Temperature dependence of high field ¹³ C dynamic nuclear polarization processes with trityl radicals below 35 Kelvin. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15106.	2.8	26
103	Phase cycling with a 240 GHz, free electron laser-powered electron paramagnetic resonance spectrometer. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5707.	2.8	10
104	Oligomerization and its Effect on Function in 7-Transmembrane Proteins. <i>Biophysical Journal</i> , 2013, 104, 406a.	0.5	0
105	Quantitative cw Overhauser effect dynamic nuclear polarization for the analysis of local water dynamics. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013, 74, 33-56.	7.5	110
106	Structural Insight into Proteorhodopsin Oligomers. <i>Biophysical Journal</i> , 2013, 104, 472-481.	0.5	51
107	Nonlinear Scaling of Surface Water Diffusion with Bulk Water Viscosity of Crowded Solutions. <i>Journal of the American Chemical Society</i> , 2013, 135, 4175-4178.	13.7	34
108	Asymmetric Collapse in Biomimetic Complex Coacervates Revealed by Local Polymer and Water Dynamics. <i>Biomacromolecules</i> , 2013, 14, 1395-1402.	5.4	32

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109	Dynamic Nuclear Polarization Methods in Solids and Solutions to Explore Membrane Proteins and Membrane Systems. Annual Review of Physical Chemistry, 2013, 64, 507-532.	10.8	41
110	Hydration dynamics as an intrinsic ruler for refining protein structure at lipid membrane interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16838-16843.	7.1	71
111	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. Materials Research Society Symposia Proceedings, 2012, 1480, 1.	0.1	1
112	Hyperpolarized Water as an MR Imaging Contrast Agent: Feasibility of in Vivo Imaging in a Rat Model. Radiology, 2012, 265, 418-425.	7.3	41
113	Quantitative Analysis of Molecular Transport across Liposomal Bilayer by J-Mediated ¹³ C Overhauser Dynamic Nuclear Polarization. Analytical Chemistry, 2012, 84, 8936-8940.	6.5	14
114	Nature of Interactions between PEO-PPO-PEO Triblock Copolymers and Lipid Membranes: (II) Role of Hydration Dynamics Revealed by Dynamic Nuclear Polarization. Biomacromolecules, 2012, 13, 2624-2633.	5.4	85
115	Pulsed electron paramagnetic resonance spectroscopy powered by a free-electron laser. Nature, 2012, 489, 409-413.	27.8	125
116	Distance measurements across randomly distributed nitroxide probes from the temperature dependence of the electron spin phase memory time at 240GHz. Journal of Magnetic Resonance, 2012, 223, 198-206.	2.1	15
117	An ultrasensitive tool exploiting hydration dynamics to decipher weak lipid membrane-polymer interactions. Journal of Magnetic Resonance, 2012, 215, 115-119.	2.1	32
118	Overhauser dynamic nuclear polarization amplification of NMR flow imaging. Journal of Magnetic Resonance, 2012, 216, 94-100.	2.1	15
119	Dynamics and state of lipid bilayer-internal water unraveled with solution state 1H dynamic nuclear polarization. Physical Chemistry Chemical Physics, 2011, 13, 7732.	2.8	48
120	Probing the hydration water diffusion of macromolecular surfaces and interfaces. New Journal of Physics, 2011, 13, 015006.	2.9	50
121	Solution-State Dynamic Nuclear Polarization. Annual Reports on NMR Spectroscopy, 2011, , 83-126.	1.5	27
122	Site-Specific Hydration Dynamics in the Nonpolar Core of a Molten Globule by Dynamic Nuclear Polarization of Water. Journal of the American Chemical Society, 2011, 133, 5987-5995.	13.7	96
123	L-band Overhauser dynamic nuclear polarization. Journal of Magnetic Resonance, 2010, 203, 138-143.	2.1	16
124	Heisenberg spin exchange effects of nitroxide radicals on Overhauser dynamic nuclear polarization in the low field limit at 1.5mT. Journal of Magnetic Resonance, 2010, 204, 56-63.	2.1	20
125	Continuous flow Overhauser dynamic nuclear polarization of water in the fringe field of a clinical magnetic resonance imaging system for authentic image contrast. Journal of Magnetic Resonance, 2010, 205, 247-254.	2.1	42
126	A 200 GHz dynamic nuclear polarization spectrometer. Physical Chemistry Chemical Physics, 2010, 12, 5920.	2.8	45

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127	Dynamic nuclear polarization of ¹³ C in aqueous solutions under ambient conditions. <i>Journal of Magnetic Resonance</i> , 2009, 201, 137-145.	2.1	28
128	Overhauser dynamic nuclear polarization and molecular dynamics simulations using pyrroline and piperidine ring nitroxide radicals. <i>Journal of Magnetic Resonance</i> , 2009, 200, 137-141.	2.1	21
129	Local Water Dynamics in Coacervated Polyelectrolytes Monitored through Dynamic Nuclear Polarization-Enhanced ¹ H NMR. <i>Macromolecules</i> , 2009, 42, 7404-7412.	4.8	55
130	Overhauser Dynamic Nuclear Polarization To Study Local Water Dynamics. <i>Journal of the American Chemical Society</i> , 2009, 131, 4641-4647.	13.7	152
131	Ultrasensitive Detection of Interfacial Water Diffusion on Lipid Vesicle Surfaces at Molecular Length Scales. <i>Journal of the American Chemical Society</i> , 2009, 131, 18254-18256.	13.7	45
132	Site-specific dynamic nuclear polarization of hydration water as a generally applicable approach to monitor protein aggregation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6833.	2.8	42
133	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> , 2008, 190, 307-315.	2.1	45
134	Dynamic Nuclear Polarization Studies of Local Water Dynamics in Soft Molecular Assemblies at 9.8 GHz. <i>Applied Magnetic Resonance</i> , 2008, 34, 439-451.	1.2	9
135	Portable X-band system for solution state dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2008, 191, 273-281.	2.1	64
136	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> , 2008, 24, 10062-10072.	3.5	43
137	A new model for Overhauser enhanced nuclear magnetic resonance using nitroxide radicals. <i>Journal of Chemical Physics</i> , 2007, 127, 104508.	3.0	121
138	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> , 2007, 104, 1754-1759.	7.1	94
139	para-Hydrogen-Induced Polarization in Heterogeneous Hydrogenation Reactions. <i>Journal of the American Chemical Society</i> , 2007, 129, 5580-5586.	13.7	160
140	Auxiliary probe design adaptable to existing probes for remote detection NMR, MRI, and time-of-flight tracing. <i>Journal of Magnetic Resonance</i> , 2006, 182, 260-272.	2.1	10
141	Microfluidic gas-flow profiling using remote-detection NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14960-14963.	7.1	75
142	NMR Analysis on Microfluidic Devices by Remote Detection. <i>Analytical Chemistry</i> , 2005, 77, 8109-8114.	6.5	49
143	Time-of-Flight Flow Imaging Using NMR Remote Detection. <i>Physical Review Letters</i> , 2005, 95, 075503.	7.8	68
144	NMR-Based Biosensing with Optimized Delivery of Polarized ¹²⁹ Xe to Solutions. <i>Analytical Chemistry</i> , 2005, 77, 4008-4012.	6.5	52

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145	Three-dimensional phase-encoded chemical shift MRI in the presence of inhomogeneous fields. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8845-8847.	7.1	24
146	Imaging of a mixture of hyperpolarized ^3He and ^{129}Xe . Magnetic Resonance Imaging, 2004, 22, 1077-1083.	1.8	9
147	Proton magnetic resonance imaging of diffusion of high- and low-molecular-weight contrast agents in opaque porous media saturated with water. Magnetic Resonance Imaging, 2004, 22, 1039-1042.	1.8	15
148	Time resolved spectroscopic NMR imaging using hyperpolarized ^{129}Xe . Journal of Magnetic Resonance, 2004, 167, 298-305.	2.1	10
149	Shpol'skii spectroscopy and vibrational analysis of [N]phenylenes. Physical Chemistry Chemical Physics, 2003, 5, 4563.	2.8	15
150	Amplification of xenon NMR and MRI by remote detection. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9122-9127.	7.1	98
151	Photophysical properties of [N]phenylenes. Physical Chemistry Chemical Physics, 2002, 4, 2156-2161.	2.8	38
152	In situ observation of diffusion and reaction dynamics in gel microreactors by chemically resolved NMR microscopy. Applied Magnetic Resonance, 2002, 22, 235.	1.2	25
153	Spectrally resolved velocity exchange spectroscopy of two-phase flow. Journal of Magnetic Resonance, 2002, 159, 36-45.	2.1	6
154	Analysis of Slow Motion by Multidimensional NMR. , 2002, , 3-14.		0
155	Spatio-Temporal Correlations in Gravity-Driven and Pressure-Driven Fluid Transport Processes. , 2002, , 423-432.		0
156	NMR Imaging of Falling Water Drops. Physical Review Letters, 2001, 87, 144501.	7.8	34
157	Two-Dimensional NMR of Velocity Exchange: VEXSY and SERPENT. Journal of Magnetic Resonance, 2001, 152, 162-167.	2.1	21
158	Two-dimensional representation of position, velocity and acceleration by PFG-NMR. Applied Magnetic Resonance, 2000, 18, 101-114.	1.2	23
159	Dynamic Nuclear Polarization-Enhanced Magnetic Resonance Analysis at X-Band Using Amplified ^1H Water Signal. , 0, , 161-176.		1