Songi Han

List of Publications by Citations

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	RNA stores tau reversibly in complex coacervates. *PLoS Biology*, **2017**, 15, e2002183	9.7	158
159	para-Hydrogen-induced polarization in heterogeneous hydrogenation reactions. *Journal of the American Chemical Society*, **2007**, 129, 5580-6	16.4	140
158	Overhauser dynamic nuclear polarization to study local water dynamics. *Journal of the American Chemical Society*, **2009**, 131, 4641-7	16.4	123
157	A new model for Overhauser enhanced nuclear magnetic resonance using nitroxide radicals. *Journal of Chemical Physics*, **2007**, 127, 104508	3.9	112
156	Universal Dynamics of Molecular Reorientation in Hybrid Lead Iodide Perovskites. *Journal of the American Chemical Society*, **2017**, 139, 16875-16884	16.4	103
155	Amplification of xenon NMR and MRI by remote detection. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 9122-7	11.5	96
154	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, 5987-95	16.4	88
153	Hyperpolarized water as an authentic magnetic resonance imaging contrast agent. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 1754-9	11.5	88
152	Quantitative cw Overhauser effect dynamic nuclear polarization for the analysis of local water dynamics. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2013**, 74, 33-56	10.4	81
151	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, 2624-33	6.9	75
150	Pulsed electron paramagnetic resonance spectroscopy powered by a free-electron laser. *Nature*, **2012**, 489, 409-13	50.4	75
149	Microfluidic gas-flow profiling using remote-detection NMR. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14960-3	11.5	72
148	Narrow equilibrium window for complex coacervation of tau and RNA under cellular conditions. *ELife*, **2019**, 8,	8.9	72
147	Time-of-flight flow imaging using NMR remote detection. *Physical Review Letters*, **2005**, 95, 075503	7.4	65
146	Determining the oligomeric structure of proteorhodopsin by Gd3+ -based pulsed dipolar spectroscopy of multiple distances. *Structure*, **2014**, 22, 1677-86	5.2	64
145	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, 16838-43	11.5	60
144	DMSO induces dehydration near lipid membrane surfaces. *Biophysical Journal*, **2015**, 109, 330-9	2.9	57

143	Surface chemical heterogeneity modulates silica surface hydration. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2890-2895	11.5	57
142	Intrinsic surface-drying properties of bioadhesive proteins. *Angewandte Chemie - International Edition*, **2014**, 53, 11253-6	16.4	57
141	Portable X-band system for solution state dynamic nuclear polarization. *Journal of Magnetic Resonance*, **2008**, 191, 273-81	3	55
140	The Role of Backbone Polarity on Aggregation and Conduction of Ions in Polymer Electrolytes. *Journal of the American Chemical Society*, **2020**, 142, 7055-7065	16.4	53
139	Local Water Dynamics in Coacervated Polyelectrolytes Monitored Through Dynamic Nuclear Polarization-Enhanced H NMR. *Macromolecules*, **2009**, 42, 7404-7412	5.5	49
138	NMR-based biosensing with optimized delivery of polarized 129Xe to solutions. *Analytical Chemistry*, **2005**, 77, 4008-12	7.8	49
137	Signature of an aggregation-prone conformation of tau. *Scientific Reports*, **2017**, 7, 44739	4.9	48
136	Anomalously Rapid Hydration Water Diffusion Dynamics Near DNA Surfaces. *Journal of the American Chemical Society*, **2015**, 137, 12013-23	16.4	48
135	Protein structural and surface water rearrangement constitute major events in the earliest aggregation stages of tau. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E127-36	11.5	48
134	Structural insight into proteorhodopsin oligomers. *Biophysical Journal*, **2013**, 104, 472-81	2.9	47
133	Cofactors are essential constituents of stable and seeding-active tau fibrils. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 13234-13239	11.5	47
132	Probing the hydration water diffusion of macromolecular surfaces and interfaces. *New Journal of Physics*, **2011**, 13, 015006	2.9	46
131	Water Dynamics from the Surface to the Interior of a Supramolecular Nanostructure. *Journal of the American Chemical Society*, **2017**, 139, 8915-8921	16.4	43
130	Dehydration entropy drives liquid-liquid phase separation by molecular crowding. *Communications Chemistry*, **2020**, 3,	6.3	43
129	Transmembrane protein activation refined by site-specific hydration dynamics. *Angewandte Chemie - International Edition*, **2013**, 52, 1953-8	16.4	43
128	Dynamics and state of lipid bilayer-internal water unraveled with solution state 1H dynamic nuclear polarization. *Physical Chemistry Chemical Physics*, **2011**, 13, 7732-46	3.6	43
127	NMR analysis on microfluidic devices by remote detection. *Analytical Chemistry*, **2005**, 77, 8109-14	7.8	43
126	DAC-board based X-band EPR spectrometer with arbitrary waveform control. *Journal of Magnetic Resonance*, **2013**, 235, 95-108	3	42

125	A 200 GHz dynamic nuclear polarization spectrometer. *Physical Chemistry Chemical Physics*, **2010**, 12, 5920-6	3.6	42
124	Hydration Dynamics of a Peripheral Membrane Protein. *Journal of the American Chemical Society*, **2016**, 138, 11526-35	16.4	40
123	Fluidity and water in nanoscale domains define coacervate hydrogels. *Chemical Science*, **2014**, 5, 58-67	9.4	40
122	Effect of electron spin dynamics on solid-state dynamic nuclear polarization performance. *Physical Chemistry Chemical Physics*, **2014**, 16, 18694-706	3.6	40
121	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, 247-54	3	40
120	Spin-labeled gel for the production of radical-free dynamic nuclear polarization enhanced molecules for NMR spectroscopy and imaging. *Journal of Magnetic Resonance*, **2008**, 190, 307-15	3	40
119	Spatially Heterogeneous Surface Water Diffusivity around Structured Protein Surfaces at Equilibrium. *Journal of the American Chemical Society*, **2017**, 139, 17890-17901	16.4	39
118	Ultrasensitive detection of interfacial water diffusion on lipid vesicle surfaces at molecular length scales. *Journal of the American Chemical Society*, **2009**, 131, 18254-6	16.4	39
117	Dynamic nuclear polarization enhanced nuclear magnetic resonance and electron spin resonance studies of hydration and local water dynamics in micelle and vesicle assemblies. *Langmuir*, **2008**, 24, 10062-72	4	39
116	Dynamic nuclear polarization methods in solids and solutions to explore membrane proteins and membrane systems. *Annual Review of Physical Chemistry*, **2013**, 64, 507-32	15.7	38
115	Hyperpolarized water as an MR imaging contrast agent: feasibility of in vivo imaging in a rat model. *Radiology*, **2012**, 265, 418-25	20.5	38
114	Bicontinuous Fluid Structure with Low Cohesive Energy: Molecular Basis for Exceptionally Low Interfacial Tension of Complex Coacervate Fluids. *ACS Nano*, **2016**, 10, 5051-62	16.7	38
113	Electrostatically Driven Complex Coacervation and Amyloid Aggregation of Tau Are Independent Processes with Overlapping Conditions. *ACS Chemical Neuroscience*, **2020**, 11, 615-627	5.7	37
112	Heparin-induced tau filaments are structurally heterogeneous and differ from Alzheimer's disease filaments. *Chemical Communications*, **2018**, 54, 4573-4576	5.8	37
111	Nanometer-scale water- and proton-diffusion heterogeneities across water channels in polymer electrolyte membranes. *Angewandte Chemie - International Edition*, **2015**, 54, 3615-20	16.4	36
110	Site-specific dynamic nuclear polarization of hydration water as a generally applicable approach to monitor protein aggregation. *Physical Chemistry Chemical Physics*, **2009**, 11, 6833-9	3.6	35
109	Decoupling Bulk Mechanics and Mono- and Multivalent Ion Transport in Polymers Based on Metal–Ligand Coordination. *Chemistry of Materials*, **2018**, 30, 5759-5769	9.6	34
108	Communication: Contrasting effects of glycerol and DMSO on lipid membrane surface hydration dynamics and forces. *Journal of Chemical Physics*, **2016**, 145, 041101	3.9	34

107	Molecular and structural basis of low interfacial energy of complex coacervates in water. *Advances in Colloid and Interface Science*, **2017**, 239, 61-73	14.3	33
106	Photophysical properties of [N]phenylenes. *Physical Chemistry Chemical Physics*, **2002**, 4, 2156-2161	3.6	33
105	Specific ions modulate diffusion dynamics of hydration water on lipid membrane surfaces. *Journal of the American Chemical Society*, **2014**, 136, 2642-9	16.4	32
104	Proton-Based Structural Analysis of a Heptahelical Transmembrane Protein in Lipid Bilayers. *Journal of the American Chemical Society*, **2017**, 139, 13006-13012	16.4	32
103	Water Structure and Properties at Hydrophilic and Hydrophobic Surfaces. *Annual Review of Chemical and Biomolecular Engineering*, **2020**, 11, 523-557	8.9	31
102	Surface water retardation around single-chain polymeric nanoparticles: critical for catalytic function?. *Chemical Science*, **2016**, 7, 2011-2015	9.4	30
101	Functional consequences of the oligomeric assembly of proteorhodopsin. *Journal of Molecular Biology*, **2015**, 427, 1278-1290	6.5	29
100	Nonlinear scaling of surface water diffusion with bulk water viscosity of crowded solutions. *Journal of the American Chemical Society*, **2013**, 135, 4175-8	16.4	29
99	Asymmetric collapse in biomimetic complex coacervates revealed by local polymer and water dynamics. *Biomacromolecules*, **2013**, 14, 1395-402	6.9	29
98	Stability of Protein-Specific Hydration Shell on Crowding. *Journal of the American Chemical Society*, **2016**, 138, 5392-402	16.4	29
97	Liquid-Liquid Phase Separation of Tau Driven by Hydrophobic Interaction Facilitates Fibrillization of Tau. *Journal of Molecular Biology*, **2021**, 433, 166731	6.5	29
96	A versatile and modular quasi optics-based 200GHz dual dynamic nuclear polarization and electron paramagnetic resonance instrument. *Journal of Magnetic Resonance*, **2016**, 264, 131-153	3	28
95	An ultrasensitive tool exploiting hydration dynamics to decipher weak lipid membrane-polymer interactions. *Journal of Magnetic Resonance*, **2012**, 215, 115-9	3	28
94	Dynamic nuclear polarization of 13C in aqueous solutions under ambient conditions. *Journal of Magnetic Resonance*, **2009**, 201, 137-45	3	28
93	NMR imaging of falling water drops. *Physical Review Letters*, **2001**, 87, 144501	7.4	28
92	Mussel Coating Protein-Derived Complex Coacervates Mitigate Frictional Surface Damage. *ACS Biomaterials Science and Engineering*, **2015**, 1, 1121-1128	5.5	27
91	The proline-rich domain promotes Tau liquid-liquid phase separation in cells. *Journal of Cell Biology*, **2020**, 219,	7.3	27
90	Effect of electron spectral diffusion on static dynamic nuclear polarization at 7 Tesla. *Physical Chemistry Chemical Physics*, **2017**, 19, 3596-3605	3.6	26

89	Arbitrary waveform modulated pulse EPR at 200GHz. *Journal of Magnetic Resonance*, **2017**, 279, 81-90	3	26
88	Correlating steric hydration forces with water dynamics through surface force and diffusion NMR measurements in a lipid-DMSO-H2O system. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10708-13	11.5	24
87	Quantitative analysis of zero-field splitting parameter distributions in Gd(iii) complexes. *Physical Chemistry Chemical Physics*, **2018**, 20, 10470-10492	3.6	24
86	Extending the distance range accessed with continuous wave EPR with Gd3+ spin probes at high magnetic fields. *Physical Chemistry Chemical Physics*, **2013**, 15, 11313-26	3.6	24
85	Intrinsic Surface-Drying Properties of Bioadhesive Proteins. *Angewandte Chemie*, **2014**, 126, 11435-11438	3.6	23
84	Solution-State Dynamic Nuclear Polarization. *Annual Reports on NMR Spectroscopy*, **2011**, 83-126	1.7	23
83	Temperature dependence of high field 13C dynamic nuclear polarization processes with trityl radicals below 35 Kelvin. *Physical Chemistry Chemical Physics*, **2013**, 15, 15106-20	3.6	22
82	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, 8845-7	11.5	22
81	Tau Aggregation Propensity Engrained in Its Solution State. *Journal of Physical Chemistry B*, **2015**, 119, 14421-32	3.4	21
80	In situ observation of diffusion and reaction dynamics in gel microreactors by chemically resolved NMR microscopy. *Applied Magnetic Resonance*, **2002**, 22, 235	0.8	21
79	Truncated Cross Effect Dynamic Nuclear Polarization: An Overhauser Effect Doppelgänger. *Journal of Physical Chemistry Letters*, **2018**, 9, 2175-2180	6.4	20
78	Probing water density and dynamics in the chaperonin GroEL cavity. *Journal of the American Chemical Society*, **2014**, 136, 9396-403	16.4	20
77	Overhauser dynamic nuclear polarization and molecular dynamics simulations using pyrroline and piperidine ring nitroxide radicals. *Journal of Magnetic Resonance*, **2009**, 200, 137-41	3	20
76	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	3	19
75	Trigonal Bipyramidal V Complex as an Optically Addressable Molecular Qubit Candidate. *Journal of the American Chemical Society*, **2020**,	16.4	19
74	Cross-Effect Dynamic Nuclear Polarization Explained: Polarization, Depolarization, and Oversaturation. *Journal of Physical Chemistry Letters*, **2019**, 10, 548-558	6.4	19
73	Simple peptide coacervates adapted for rapid pressure-sensitive wet adhesion. *Soft Matter*, **2017**, 13, 9122-9131	3.6	18
72	Overhauser Dynamic Nuclear Polarization Studies on Local Water Dynamics. *Methods in Enzymology* , **2015**, 564, 457-83	1.7	18

71	Two-dimensional NMR of velocity exchange: VEXSY and SERPENT. *Journal of Magnetic Resonance*, **2001**, 152, 162-7	3	18
70	Two-dimensional representation of position, velocity and acceleration by PFG-NMR. *Applied Magnetic Resonance*, **2000**, 18, 101-114	0.8	17
69	Tau-Cofactor Complexes as Building Blocks of Tau Fibrils. *Frontiers in Neuroscience*, **2019**, 13, 1339	5.1	17
68	Ion specific effects: decoupling ion-ion and ion-water interactions. *Physical Chemistry Chemical Physics*, **2015**, 17, 8306-22	3.6	16
67	Direct dynamic nuclear polarization targeting catalytically active (27)Al sites. *Physical Chemistry Chemical Physics*, **2015**, 17, 25449-54	3.6	16
66	Perspective of Overhauser dynamic nuclear polarization for the study of soft materials. *Current Opinion in Colloid and Interface Science*, **2018**, 33, 72-85	7.6	16
65	Effect of water/glycerol polymorphism on dynamic nuclear polarization. *Physical Chemistry Chemical Physics*, **2018**, 20, 9897-9903	3.6	16
64	Cholesterol enhances surface water diffusion of phospholipid bilayers. *Journal of Chemical Physics*, **2014**, 141, 22D513	3.9	16
63	Maximizing NMR signal per unit time by facilitating the e-e-n cross effect DNP rate. *Physical Chemistry Chemical Physics*, **2018**, 20, 27646-27657	3.6	15
62	Gd-Gd distances exceeding 3 nm determined by very high frequency continuous wave electron paramagnetic resonance. *Physical Chemistry Chemical Physics*, **2017**, 19, 5127-5136	3.6	14
61	Balancing dipolar and exchange coupling in biradicals to maximize cross effect dynamic nuclear polarization. *Physical Chemistry Chemical Physics*, **2020**, 22, 13569-13579	3.6	14
60	Mechanisms of Heparin-Induced Tau Aggregation Revealed by a Single Nanopore. *ACS Sensors*, **2020**, 5, 1158-1167	9.2	14
59	L-band Overhauser dynamic nuclear polarization. *Journal of Magnetic Resonance*, **2010**, 203, 138-43	3	14
58	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, 1039-42	3.3	14
57	Liquid-liquid phase separation of Tau by self and complex coacervation. *Protein Science*, **2021**, 30, 1393-1407	6.9	14
56	Distance measurements across randomly distributed nitroxide probes from the temperature dependence of the electron spin phase memory time at 240 GHz. *Journal of Magnetic Resonance*, **2012**, 223, 198-206	3	13
55	Overhauser dynamic nuclear polarization amplification of NMR flow imaging. *Journal of Magnetic Resonance*, **2012**, 216, 94-100	3	12
54	Overhauser Dynamic Nuclear Polarization-Enhanced NMR Relaxometry. *Microporous and Mesoporous Materials*, **2013**, 178, 113-118	5.3	12

53	Shpolskii spectroscopy and vibrational analysis of [N]phenylenes. *Physical Chemistry Chemical Physics*, **2003**, 5, 4563	3.6	12
52	Amplification of Dynamic Nuclear Polarization at 200 GHz by Arbitrary Pulse Shaping of the Electron Spin Saturation Profile. *Journal of Physical Chemistry Letters*, **2018**, 9, 3110-3115	6.4	12
51	Structure of Membrane-Bound Huntingtin Exon 1 Reveals Membrane Interaction and Aggregation Mechanisms. *Structure*, **2019**, 27, 1570-1580.e4	5.2	11
50	Reversal of Paramagnetic Effects by Electron Spin Saturation. *Journal of Physical Chemistry C*, **2018**, 122, 5578-5589	3.8	11
49	Quantitative analysis of molecular transport across liposomal bilayer by J-mediated 13C Overhauser dynamic nuclear polarization. *Analytical Chemistry*, **2012**, 84, 8936-40	7.8	11
48	Light-Switchable and Self-Healable Polymer Electrolytes Based on Dynamic Diarylethene and Metal-Ion Coordination. *Journal of the American Chemical Society*, **2021**, 143, 1562-1569	16.4	11
47	Tuning nuclear depolarization under MAS by electron T. *Physical Chemistry Chemical Physics*, **2018**, 20, 23976-23987	3.6	11
46	Tuning conformation and properties of peptidomimetic backbones through dual N/C-substitution. *Chemical Communications*, **2018**, 54, 5237-5240	5.8	10
45	Phase cycling with a 240 GHz, free electron laser-powered electron paramagnetic resonance spectrometer. *Physical Chemistry Chemical Physics*, **2013**, 15, 5707-19	3.6	10
44	Conformation-based assay of tau protein aggregation. *Methods in Cell Biology*, **2017**, 141, 89-112	1.8	10
43	Local water diffusivity as a molecular probe of surface hydrophilicity. *MRS Bulletin*, **2014**, 39, 1082-1088	3.2	10
42	Overhauser Dynamic Nuclear Polarization for the Study of Hydration Dynamics, Explained. *Methods in Enzymology*, **2019**, 615, 131-175	1.7	10
41	Electron spin density matching for cross-effect dynamic nuclear polarization. *Chemical Communications*, **2019**, 55, 7591-7594	5.8	9
40	Adenosine A2a receptors form distinct oligomers in protein detergent complexes. *FEBS Letters*, **2016**, 590, 3295-306	3.8	9
39	Auxiliary probe design adaptable to existing probes for remote detection NMR, MRI, and time-of-flight tracing. *Journal of Magnetic Resonance*, **2006**, 182, 260-72	3	9
38	Pulse-Shaped Dynamic Nuclear Polarization under Magic-Angle Spinning. *Journal of Physical Chemistry Letters*, **2019**, 10, 7781-7788	6.4	9
37	P-Site Structural Diversity and Evolution in a Zeosil Catalyst. *Journal of the American Chemical Society*, **2021**, 143, 1968-1983	16.4	9
36	Crossover from a Solid Effect to Thermal Mixing H Dynamic Nuclear Polarization with Trityl-OX063. *Journal of Physical Chemistry Letters*, **2020**, 11, 3718-3723	6.4	8

35	Active cancellation - A means to zero dead-time pulse EPR. *Journal of Magnetic Resonance*, **2015**, 261, 199-204	3	8
34	Dynamic Nuclear Polarization Studies of Local Water Dynamics in Soft Molecular Assemblies at 9.8 GHz. *Applied Magnetic Resonance*, **2008**, 34, 439-451	0.8	8
33	Imaging of a mixture of hyperpolarized 3He and 129Xe. *Magnetic Resonance Imaging*, **2004**, 22, 1077-83	3.3	8
32	Time resolved spectroscopic NMR imaging using hyperpolarized 129Xe. *Journal of Magnetic Resonance*, **2004**, 167, 298-305	3	8
31	Dynamic Nuclear Polarization with Vanadium(IV) Metal Centers. *CheM*, **2021**, 7, 421-435	16.2	8
30	Biradical rotamer states tune electron J coupling and MAS dynamic nuclear polarization enhancement. *Solid State Nuclear Magnetic Resonance*, **2019**, 101, 12-20	3.1	7
29	End-to-End Distance Probability Distributions of Dilute Poly(ethylene oxide) in Aqueous Solution. *Journal of the American Chemical Society*, **2020**, 142, 19631-19641	16.4	7
28	Functionally Active Membrane Proteins Incorporated in Mesostructured Silica Films. *Journal of the American Chemical Society*, **2018**, 140, 3892-3906	16.4	7
27	Proteorhodopsin Function Is Primarily Mediated by Oligomerization in Different Micellar Surfactant Solutions. *Journal of Physical Chemistry B*, **2019**, 123, 4180-4192	3.4	6
26	Heterogeneity of Network Structures and Water Dynamics in κ-Carrageenan Gels Probed by Nanoparticle Diffusometry. *Langmuir*, **2018**, 34, 11110-11120	4	6
25	Tau Condensates. *Advances in Experimental Medicine and Biology*, **2019**, 1184, 327-339	3.6	6
24	Electrostatic Environment of Proteorhodopsin Affects the pKa of Its Buried Primary Proton Acceptor. *Biophysical Journal*, **2020**, 118, 1838-1849	2.9	5
23	Multi-step phase-cycling in a free-electron laser-powered pulsed electron paramagnetic resonance spectrometer. *Physical Chemistry Chemical Physics*, **2018**, 20, 18097-18109	3.6	5
22	Transmembrane Protein Activation Refined by Site-Specific Hydration Dynamics. *Angewandte Chemie*, **2013**, 125, 2007-2012	3.6	5
21	Homo-oligomerization of the human adenosine A receptor is driven by the intrinsically disordered C-terminus. *ELife*, **2021**, 10,	8.9	5
20	Location of the TEMPO Moiety of TEMPO-PC in Lipid Bilayers. *Biophysical Journal*, **2017**, 113, 966-969	2.9	4
19	Spectrally resolved velocity exchange spectroscopy of two-phase flow. *Journal of Magnetic Resonance*, **2002**, 159, 36-45	3	4
18	RNA Stores Tau Reversibly in Complex Coacervates		4

17	Narrow equilibrium window for complex coacervation of tau and RNA under cellular conditions		4
16	H Thermal Mixing Dynamic Nuclear Polarization with BDPA as Polarizing Agents. *Journal of Physical Chemistry Letters*, **2020**, 11, 9195-9202	6.4	4
15	Tuning molecular adsorption in SBA-15-type periodic mesoporous organosilicas by systematic variation of their surface polarity. *Chemical Science*, **2020**, 11, 3702-3712	9.4	4
14	Effect of nitroxide spin probes on the transport properties of Nafion membranes. *Physical Chemistry Chemical Physics*, **2018**, 20, 26660-26674	3.6	4
13	Confinement Promotes Hydrogen Bond Network Formation and Grotthuss Proton Hopping in Ion-Conducting Block Copolymers. *Macromolecules*, **2022**, 55, 615-622	5.5	2
12	Solid-state MAS NMR at ultra low temperature of hydrated alanine doped with DNP radicals. *Journal of Magnetic Resonance*, **2021**, 333, 107090	3	2
11	Quantifying Polypeptoid Conformational Landscapes through Integrated Experiment and Simulation. *Macromolecules*, **2021**, 54, 5011-5021	5.5	2
10	Dressed Rabi Oscillation in a Crystalline Organic Radical. *Physical Review Letters*, **2020**, 124, 047201	7.4	1
9	Dynamic Nuclear Polarization-Enhanced Magnetic Resonance Analysis at X-Band Using Amplified 1H Water Signal161-176		1
8	Oligomerization of the Human Adenosine A2A Receptor is Driven by the Intrinsically Disordered C-terminus		1
7	Mapping Out Protein Hydration Dynamics by Overhauser Dynamic Nuclear Polarization. *Biological Magnetic Resonance*, **2015**, 43-74	0.5	1
6	Liquid-liquid phase separation and fibrillization of tau are independent processes with overlapping conditions		1
5	Redox-Active Polymeric Ionic Liquids with Pendant N-Substituted Phenothiazine. *ACS Applied Materials & Interfaces*, **2021**, 13, 5319-5326	9.5	1
4	Role of electron spin dynamics and coupling network in designing dynamic nuclear polarization. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2021**, 126-127, 1-16	10.4	1
3	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. *Materials Research Society Symposia Proceedings*, **2012**, 1480, 1		
2	Analysis of Slow Motion by Multidimensional NMR **2002**, 3-14		
1	Spatio-Temporal Correlations in Gravity-Driven and Pressure-Driven Fluid Transport Processes **2002**, 423-432		