Lyndon Emsley

List of Publications by Year
in descending order

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374 papers	28,624 citations	3159 92 h-index	8630 146 g-index
395 all docs	395 docs citations	395 times ranked	16295 citing authors

#	Article	IF	Citations
1	Multiâ€Length Scale Structure of 2D/3D Dionâ€“Jacobson Hybrid Perovskites Based on an Aromatic Diammonium Spacer. Small, 2022, 18, e2104287.	10.0	10
2	Hyperpolarized Solution-State NMR Spectroscopy with Optically Polarized Crystals. Journal of the American Chemical Society, 2022, 144, 2511-2519.	13.7	25
3	Colloidal-ALD-Grown Hybrid Shells Nucleate via a Ligandâ€“Precursor Complex. Journal of the American Chemical Society, 2022, 144, 3998-4008.	13.7	12
4	Efficient and Stable Large Bandgap MAPbBr₃ Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. ACS Energy Letters, 2022, 7, 1112-1119.	17.4	21
5	Spatial Distribution of Functional Groups in Cellulose Ethers by DNP-Enhanced Solid-State NMR Spectroscopy. Macromolecules, 2022, 55, 2952-2958.	4.8	11
6	In-Cell Quantification of Drugs by Magic-Angle Spinning Dynamic Nuclear Polarization NMR. Journal of the American Chemical Society, 2022, 144, 6734-6741.	13.7	13
7	De Novo Crystal Structure Determination from Machine Learned Chemical Shifts. Journal of the American Chemical Society, 2022, 144, 7215-7223.	13.7	14
8	¹H Detected Relayed Dynamic Nuclear Polarization. Journal of Physical Chemistry C, 2022, 126, 7564-7570.	3.1	7
9	Design Principles for the Development of Gd(III) Polarizing Agents for Magic Angle Spinning Dynamic Nuclear Polarization. Journal of Physical Chemistry C, 2022, 126, 11310-11317.	3.1	10
10	Hyperpolarization transfer pathways in inorganic materials. Journal of Magnetic Resonance, 2021, 323, 106888.	2.1	6
11	Scaling analyses for hyperpolarization transfer across a spin-diffusion barrier and into bulk solid media. Physical Chemistry Chemical Physics, 2021, 23, 1006-1020.	2.8	35
12	High Sensitivity Detection of a Solubility Limiting Surface Transformation of Drug Particles by DNP SENS. Journal of Pharmaceutical Sciences, 2021, 110, 2452-2456.	3.3	3
13	Solid-state NMR spectroscopy. Nature Reviews Methods Primers, 2021, 1, .	21.2	196
14	Similarities and Differences among Protein Dynamics Studied by Variable Temperature Nuclear Magnetic Resonance Relaxation. Journal of Physical Chemistry B, 2021, 125, 2212-2221.	2.6	6
15	Pseudo-halide anion engineering for Î±-FAPbI3 perovskite solar cells. Nature, 2021, 592, 381-385.	27.8	2,095
16	The Atomic-Level Structure of Cementitious Calcium Aluminate Silicate Hydrate Determined by NMR. Chimia, 2021, 75, 272-275.	0.6	1
17	Iron incorporation in synthetic precipitated calcium silicate hydrates. Cement and Concrete Research, 2021, 142, 106365.	11.0	14
18	Benzylammoniumâ€Mediated Formamidinium Lead Iodide Perovskite Phase Stabilization for Photovoltaics. Advanced Functional Materials, 2021, 31, 2101163.	14.9	28

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19	Structure determination of an amorphous drug through large-scale NMR predictions. Nature Communications, 2021, 12, 2964.	12.8	35
20	Two-step immobilization of metronidazole prodrug on TEMPO cellulose nanofibrils through thiol-yne click chemistry for in situ controlled release. Carbohydrate Polymers, 2021, 262, 117952.	10.2	9
21	Advanced characterization of regioselectively substituted methylcellulose model compounds by DNP enhanced solid-state NMR spectroscopy. Carbohydrate Polymers, 2021, 262, 117944.	10.2	18
22	Multimodal hostâ€“guest complexation for efficient and stable perovskite photovoltaics. Nature Communications, 2021, 12, 3383.	12.8	72
23	Pure Isotropic Proton Solid State NMR. Journal of the American Chemical Society, 2021, 143, 9834-9841.	13.7	15
24	Theory and simulations of homonuclear three-spin systems in rotating solids. Journal of Chemical Physics, 2021, 155, 084201.	3.0	10
25	Endogenous ¹⁷O Dynamic Nuclear Polarization of Gd-Doped CeO₂ from 100 to 370 K. Journal of Physical Chemistry C, 2021, 125, 18799-18809.	3.1	18
26	Naphthalenediimide/Formamidinium-Based Low-Dimensional Perovskites. Chemistry of Materials, 2021, 33, 6412-6420.	6.7	16
27	NMR spectroscopy probes microstructure, dynamics and doping of metal halide perovskites. Nature Reviews Chemistry, 2021, 5, 624-645.	30.2	73
28	Quantification of magic angle spinning dynamic nuclear polarization NMR spectra. Journal of Magnetic Resonance, 2021, 329, 107030.	2.1	6
29	Nanoscale Phase Segregation in Supramolecular Ï€-Templating for Hybrid Perovskite Photovoltaics from NMR Crystallography. Journal of the American Chemical Society, 2021, 143, 1529-1538.	13.7	55
30	A Magic Angle Spinning Activated ¹⁷O DNP Raser. Journal of Physical Chemistry Letters, 2021, 12, 345-349.	4.6	23
31	Unravelling the Behavior of Dionâ€“Jacobson Layered Hybrid Perovskites in Humid Environments. ACS Energy Letters, 2021, 6, 337-344.	17.4	44
32	Bayesian probabilistic assignment of chemical shifts in organic solids. Science Advances, 2021, 7, eabk2341.	10.3	13
33	Cellulose phosphorylation comparison and analysis of phosphorate position on cellulose fibers. Carbohydrate Polymers, 2020, 229, 115294.	10.2	61
34	Supramolecular Modulation of Hybrid Perovskite Solar Cells via Bifunctional Halogen Bonding Revealed by Two-Dimensional ¹⁹F Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2020, 142, 1645-1654.	13.7	69
35	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. Joule, 2020, 4, 222-234.	24.0	88
36	Structural and DNA binding properties of mycobacterial integration host factor mIHF. Journal of Structural Biology, 2020, 209, 107434.	2.8	3

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37	Guanineâ€Stabilized Formamidinium Lead Iodide Perovskites. Angewandte Chemie - International Edition, 2020, 59, 4691-4697.	13.8	61
38	Guanineâ€Stabilized Formamidinium Lead Iodide Perovskites. Angewandte Chemie, 2020, 132, 4721-4727.	2.0	0
39	Fast remote correlation experiments for 1H homonuclear decoupling in solids. Journal of Magnetic Resonance, 2020, 321, 106856.	2.1	8
40	Picometer Resolution Structure of the Coordination Sphere in the Metal-Binding Site in a Metalloprotein by NMR. Journal of the American Chemical Society, 2020, 142, 16757-16765.	13.7	33
41	Sensitivity Enhancements in Lithium Titanates by Incipient Wetness Impregnation DNP NMR. Journal of Physical Chemistry C, 2020, 124, 16524-16528.	3.1	13
42	Dynamic Nuclear Polarization Enhancement of 200 at 21.15 T Enabled by 65 kHz Magic Angle Spinning. Journal of Physical Chemistry Letters, 2020, 11, 8386-8391.	4.6	66
43	Open and Closed Radicals: Local Geometry around Unpaired Electrons Governs Magic-Angle Spinning Dynamic Nuclear Polarization Performance. Journal of the American Chemical Society, 2020, 142, 16587-16599.	13.7	42
44	¹¹³Cd Solid-State NMR at 21.1 T Reveals the Local Structure and Passivation Mechanism of Cadmium in Hybrid and All-Inorganic Halide Perovskites. ACS Energy Letters, 2020, 5, 2964-2971.	17.4	20
45	Multimodal Response to Copper Binding in Superoxide Dismutase Dynamics. Journal of the American Chemical Society, 2020, 142, 19660-19667.	13.7	15
46	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 19980-19991.	13.7	145
47	The Atomic-Level Structure of Cementitious Calcium Aluminate Silicate Hydrate. Journal of the American Chemical Society, 2020, 142, 11060-11071.	13.7	107
48	Local Structure and Dynamics in Methylammonium, Formamidinium, and Cesium Tin(II) Mixed-Halide Perovskites from ¹¹⁹Sn Solid-State NMR. Journal of the American Chemical Society, 2020, 142, 7813-7826.	13.7	66
49	Enhanced Intersystem Crossing and Transient Electron Spin Polarization in a Photoexcited Pentaceneâ€“Trityl Radical. Journal of Physical Chemistry A, 2020, 124, 6068-6075.	2.5	19
50	Homonuclear Decoupling in 1 Hâ€…NMR of Solids by Remote Correlation. Angewandte Chemie, 2020, 132, 6294-6297.	2.0	3
51	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. Joule, 2020, 4, 507-508.	24.0	4
52	Atomistic Origins of the Limited Phase Stability of Cs⁺-Rich FA_xCs_(1â€“x)PbI₃ Mixtures. Chemistry of Materials, 2020, 32, 2605-2614.	6.7	24
53	Colloidal-ALD-Grown Core/Shell CdSe/CdS Nanoplatelets as Seen by DNP Enhanced PASSâ€“PIETA NMR Spectroscopy. Nano Letters, 2020, 20, 3003-3018.	9.1	24
54	Homonuclear Decoupling in ¹Hâ€…NMR of Solids by Remote Correlation. Angewandte Chemie - International Edition, 2020, 59, 6235-6238.	13.8	22

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55	TinyPols: a family of water-soluble binitroxides tailored for dynamic nuclear polarization enhanced NMR spectroscopy at 18.8 and 21.1 T. Chemical Science, 2020, 11, 2810-2818.	7.4	72
56	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI ₃ perovskite solar cells. Science, 2020, 370, .	12.6	530
57	Measurement of Proton Spin Diffusivity in Hydrated Cementitious Solids. Journal of Physical Chemistry Letters, 2019, 10, 5064-5069.	4.6	4
58	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. Nature Communications, 2019, 10, 3008.	12.8	268
59	Line narrowing in 1H NMR of powdered organic solids with TOP-CT-MAS experiments at ultra-fast MAS. Journal of Magnetic Resonance, 2019, 305, 131-137.	2.1	13
60	Atomic-Level Microstructure of Efficient Formamidinium-Based Perovskite Solar Cells Stabilized by 5-Ammonium Valeric Acid Iodide Revealed by Multinuclear and Two-Dimensional Solid-State NMR. Journal of the American Chemical Society, 2019, 141, 17659-17669.	13.7	104
61	Ba-induced phase segregation and band gap reduction in mixed-halide inorganic perovskite solar cells. Nature Communications, 2019, 10, 4686.	12.8	105
62	High-resolution 1H NMR of powdered solids by homonuclear dipolar decoupling. Journal of Magnetic Resonance, 2019, 309, 106598.	2.1	22
63	Chemical exchange at the ferroelectric phase transition of lead germanate revealed by solid state ²⁰⁷Pb nuclear magnetic resonance. Physical Chemistry Chemical Physics, 2019, 21, 1100-1109.	2.8	11
64	Maximizing nuclear hyperpolarization in pulse cooling under MAS. Journal of Magnetic Resonance, 2019, 300, 142-148.	2.1	16
65	A Factor Two Improvement in High-Field Dynamic Nuclear Polarization from Gd(III) Complexes by Design. Journal of the American Chemical Society, 2019, 141, 8746-8751.	13.7	28
66	Dynamic Nuclear Polarization Magic-Angle Spinning Nuclear Magnetic Resonance Combined with Molecular Dynamics Simulations Permits Detection of Order and Disorder in Viral Assemblies. Journal of Physical Chemistry B, 2019, 123, 5048-5058.	2.6	31
67	19 F Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. Angewandte Chemie, 2019, 131, 7327-7331.	2.0	2
68	Structural description of surfaces and interfaces in biominerals by DNP SENS. Solid State Nuclear Magnetic Resonance, 2019, 102, 2-11.	2.3	25
69	Rapid Structure Determination of Molecular Solids Using Chemical Shifts Directed by Unambiguous Prior Constraints. Journal of the American Chemical Society, 2019, 141, 16624-16634.	13.7	47
70	Leadâ€“Oxygen Bond Length Distributions of the Relaxor Ferroelectric 0.67PbMg1/3Nb2/3O3â€“0.33PbTiO3 from 207Pb Nuclear Magnetic Resonance. Journal of Physical Chemistry C, 2019, 123, 15744-15750.	3.1	5
71	Multifunctional Molecular Modulation for Efficient and Stable Hybrid Perovskite Solar Cells. Chimia, 2019, 73, 317.	0.6	19
72	Nucleobase pairing and photodimerization in a biologically derived metal-organic framework nanoreactor. Nature Communications, 2019, 10, 1612.	12.8	58

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73	Supramolecular Engineering for Formamidiniumâ€Based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solidâ€State NMR Spectroscopy. Advanced Energy Materials, 2019, 9, 1900284.	19.5	89
74	¹⁹F Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 7249-7253.	13.8	18
75	One- and Two-Dimensional High-Resolution NMR from Flat Surfaces. ACS Central Science, 2019, 5, 515-523.	11.3	17
76	Topology of Pretreated Wood Fibers Using Dynamic Nuclear Polarization. Journal of Physical Chemistry C, 2019, 123, 30407-30415.	3.1	22
77	A Bayesian approach to NMR crystal structure determination. Physical Chemistry Chemical Physics, 2019, 21, 23385-23400.	2.8	39
78	Doping and phase segregation in Mn²⁺- and Co²⁺-doped lead halide perovskites from¹³³Cs and¹H NMR relaxation enhancement. Journal of Materials Chemistry A, 2019, 7, 2326-2333.	10.3	59
79	Europium-Doped CsPbI2Br for Stable and Highly Efficient Inorganic Perovskite Solar Cells. Joule, 2019, 3, 205-214.	24.0	387
80	Elucidating an Amorphous Form Stabilization Mechanism for Tenapanor Hydrochloride: Crystal Structure Analysis Using X-ray Diffraction, NMR Crystallography, and Molecular Modeling. Molecular Pharmaceutics, 2018, 15, 1476-1487.	4.6	32
81	DNP enhanced NMR with flip-back recovery. Journal of Magnetic Resonance, 2018, 288, 69-75.	2.1	19
82	Formation of Stable Mixed Guanidiniumâ€“Methylammonium Phases with Exceptionally Long Carrier Lifetimes for High-Efficiency Lead Iodide-Based Perovskite Photovoltaics. Journal of the American Chemical Society, 2018, 140, 3345-3351.	13.7	235
83	Structure of Lipid Nanoparticles Containing siRNA or mRNA by Dynamic Nuclear Polarization-Enhanced NMR Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 2073-2081.	2.6	121
84	One-step mechanochemical incorporation of an insoluble cesium additive for high performance planar heterojunction solar cells. Nano Energy, 2018, 49, 523-528.	16.0	95
85	Conformational dynamics in crystals reveal the molecular bases for D76N beta-2 microglobulin aggregation propensity. Nature Communications, 2018, 9, 1658.	12.8	53
86	Predicting the DNP-SENS efficiency in reactive heterogeneous catalysts from hydrophilicity. Chemical Science, 2018, 9, 4866-4872.	7.4	24
87	Hyperpolarized long-lived nuclear spin states in monodeuterated methyl groups. Physical Chemistry Chemical Physics, 2018, 20, 9755-9759.	2.8	23
88	DNPâ€enhanced solidâ€state NMR spectroscopy of active pharmaceutical ingredients. Magnetic Resonance in Chemistry, 2018, 56, 583-609.	1.9	61
89	Addition of adamantylammonium iodide to hole transport layers enables highly efficient and electroluminescent perovskite solar cells. Energy and Environmental Science, 2018, 11, 3310-3320.	30.8	137
90	Probing Protein Dynamics Using Multifield Variable Temperature NMR Relaxation and Molecular Dynamics Simulation. Journal of Physical Chemistry B, 2018, 122, 9697-9702.	2.6	15

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91	BDPA-Nitroxide Biradicals Tailored for Efficient Dynamic Nuclear Polarization Enhanced Solid-State NMR at Magnetic Fields up to 21.1 T. Journal of the American Chemical Society, 2018, 140, 13340-13349.	13.7	99
92	Multifunctional molecular modulators for perovskite solar cells with over 20% efficiency and high operational stability. Nature Communications, 2018, 9, 4482.	12.8	266
93	Coreâ€“Shell Structure of Organic Crystalline Nanoparticles Determined by Relayed Dynamic Nuclear Polarization NMR. Journal of Physical Chemistry A, 2018, 122, 8802-8807.	2.5	22
94	Chemical shifts in molecular solids by machine learning. Nature Communications, 2018, 9, 4501.	12.8	170
95	Phase Segregation in Potassium-Doped Lead Halide Perovskites from ³⁹K Solid-State NMR at 21.1 T. Journal of the American Chemical Society, 2018, 140, 7232-7238.	13.7	130
96	Bulk Nuclear Hyperpolarization of Inorganic Solids by Relay from the Surface. Journal of the American Chemical Society, 2018, 140, 7946-7951.	13.7	50
97	Refocused linewidths less than 10â€Hz in 1H solid-state NMR. Journal of Magnetic Resonance, 2018, 293, 41-46.	2.1	5
98	Resolving the Core and the Surface of CdSe Quantum Dots and Nanoplatelets Using Dynamic Nuclear Polarization Enhanced PASSâ€“PIETA NMR Spectroscopy. ACS Central Science, 2018, 4, 1113-1125.	11.3	46
99	Transportable hyperpolarized metabolites. Nature Communications, 2017, 8, 13975.	12.8	86
100	Positional Variance in NMR Crystallography. Journal of the American Chemical Society, 2017, 139, 2573-2576.	13.7	48
101	Oxygen-17 dynamic nuclear polarisation enhanced solid-state NMR spectroscopy at 18.8 T. Chemical Communications, 2017, 53, 2563-2566.	4.1	39
102	Donorâ€“acceptor stacking arrangements in bulk and thin-film high-mobility conjugated polymers characterized using molecular modelling and MAS and surface-enhanced solid-state NMR spectroscopy. Chemical Science, 2017, 8, 3126-3136.	7.4	64
103	Solvent suppression in DNP enhanced solid state NMR. Journal of Magnetic Resonance, 2017, 277, 149-153.	2.1	31
104	Improving Sensitivity of Solid-state NMR Spectroscopy by Rational Design of Polarizing Agents for Dynamic Nuclear Polarization. Chimia, 2017, 71, 190-194.	0.6	4
105	Tailored Polarizing Hybrid Solids with Nitroxide Radicals Localized in Mesostructured Silica Walls. Helvetica Chimica Acta, 2017, 100, e1700101.	1.6	24
106	Does Zâ€² equal 1 or 2? Enhanced powder NMR crystallography verification of a disordered room temperature crystal structure of a p38 inhibitor for chronic obstructive pulmonary disease. Physical Chemistry Chemical Physics, 2017, 19, 16650-16661.	2.8	25
107	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. Angewandte Chemie - International Edition, 2017, 56, 8726-8730.	13.8	26
108	Cation Dynamics in Mixed-Cation (MA)_x(FA)_{1â€“x}PbI₃ Hybrid Perovskites from Solid-State NMR. Journal of the American Chemical Society, 2017, 139, 10055-10061.	13.7	209

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109	Paramagnetic Properties of a Crystalline Ironâ€“Sulfur Protein by Magic-Angle Spinning NMR Spectroscopy. Inorganic Chemistry, 2017, 56, 6624-6629.	4.0	19
110	The Atomic-Level Structure of Cementitious Calcium Silicate Hydrate. Journal of Physical Chemistry C, 2017, 121, 17188-17196.	3.1	178
111	The structure and binding mode of citrate in the stabilization of gold nanoparticles. Nature Chemistry, 2017, 9, 890-895.	13.6	222
112	Three-Dimensional Structure Determination of Surface Sites. Journal of the American Chemical Society, 2017, 139, 849-855.	13.7	75
113	Determining the Surface Structure of Silicated Alumina Catalysts via Isotopic Enrichment and Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 22977-22984.	3.1	34
114	Phase Segregation in Cs-, Rb- and K-Doped Mixed-Cation (MA)_x(FA)_{1â€“x}PbI₃ Hybrid Perovskites from Solid-State NMR. Journal of the American Chemical Society, 2017, 139, 14173-14180.	13.7	317
115	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. Angewandte Chemie, 2017, 129, 8852-8856.	2.0	2
116	Structure of outer membrane protein G in lipid bilayers. Nature Communications, 2017, 8, 2073.	12.8	91
117	Dynamic Nuclear Polarization Efficiency Increased by Very Fast Magic Angle Spinning. Journal of the American Chemical Society, 2017, 139, 10609-10612.	13.7	52
118	Measuring Nano- to Microstructures from Relayed Dynamic Nuclear Polarization NMR. Journal of Physical Chemistry C, 2017, 121, 15993-16005.	3.1	88
119	Local Structures and Heterogeneity of Silica-Supported M(III) Sites Evidenced by EPR, IR, NMR, and Luminescence Spectroscopies. Journal of the American Chemical Society, 2017, 139, 8855-8867.	13.7	58
120	Reactive surface organometallic complexes observed using dynamic nuclear polarization surface enhanced NMR spectroscopy. Chemical Science, 2017, 8, 284-290.	7.4	55
121	Dendritic polarizing agents for DNP SENS. Chemical Science, 2017, 8, 416-422.	7.4	35
122	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. Angewandte Chemie, 2016, 128, 4821-4825.	2.0	6
123	Monolayer Doping of Silicon through Grafting a Tailored Molecular Phosphorus Precursor onto Oxide-Passivated Silicon Surfaces. Chemistry of Materials, 2016, 28, 3634-3640.	6.7	50
124	Structure elucidation of a complex CO₂-based organic framework material by NMR crystallography. Chemical Science, 2016, 7, 4379-4390.	7.4	39
125	Correlating Synthetic Methods, Morphology, Atomic-Level Structure, and Catalytic Activity of Sn-Î² Catalysts. ACS Catalysis, 2016, 6, 4047-4063.	11.2	106
126	Molecular Level Characterization of the Structure and Interactions in Peptideâ€Functionalized Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2016, 22, 16531-16538.	3.3	27

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127	³⁵Cl dynamic nuclear polarization solid-state NMR of active pharmaceutical ingredients. Physical Chemistry Chemical Physics, 2016, 18, 25893-25904.	2.8	87
128	Structure of fully protonated proteins by proton-detected magic-angle spinning NMR. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9187-9192.	7.1	224
129	Hyperpolarization of Frozen Hydrocarbon Gases by Dynamic Nuclear Polarization at 1.2 K. Journal of Physical Chemistry Letters, 2016, 7, 3235-3239.	4.6	18
130	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. Angewandte Chemie - International Edition, 2016, 55, 4743-4747.	13.8	52
131	Weak and Transient Protein Interactions Determined by Solidâ€State NMR. Angewandte Chemie - International Edition, 2016, 55, 6638-6641.	13.8	28
132	Atomic-level organization of vicinal acidâ€“base pairs through the chemisorption of aniline and derivatives onto mesoporous SBA15. Chemical Science, 2016, 7, 6099-6105.	7.4	16
133	Weak and Transient Protein Interactions Determined by Solidâ€State NMR. Angewandte Chemie, 2016, 128, 6750-6753.	2.0	14
134	Dynamic nuclear polarization at 40 kHz magic angle spinning. Physical Chemistry Chemical Physics, 2016, 18, 10616-10622.	2.8	74
135	Rational design of dinitroxide biradicals for efficient cross-effect dynamic nuclear polarization. Chemical Science, 2016, 7, 550-558.	7.4	141
136	Iridium(I)/Nâ€Heterocyclic Carbene Hybrid Materials: Surface Stabilization of Lowâ€Valent Iridium Species for High Catalytic Hydrogenation Performance. Angewandte Chemie - International Edition, 2015, 54, 12937-12941.	13.8	33
137	Solid-State Dynamic Nuclear Polarization at 9.4 and 18.8 T from 100 K to Room Temperature. Journal of the American Chemical Society, 2015, 137, 14558-14561.	13.7	87
138	Lipid bilayer-bound conformation of an integral membrane beta barrel protein by multidimensional MAS NMR. Journal of Biomolecular NMR, 2015, 61, 299-310.	2.8	38
139	Alkane Metathesis with the Tantalum Methylidene [(â‰¡SiO)Ta(â•CH₂)Me₂]/[(â‰¡SiO)₂Ta(â•CH₂)Me] Generated from Well-Defined Surface Organometallic Complex [(â‰¡SiO)Ta^VMe₄]. Journal of the American Chemical Society, 2015, 137, 588-591.	13.7	65
140	Atomistic Description of Thiostannate-Capped CdSe Nanocrystals: Retention of Four-Coordinate SnS4 Motif and Preservation of Cd-Rich Stoichiometry. Journal of the American Chemical Society, 2015, 137, 1862-1874.	13.7	48
141	Sensitivity and resolution of proton detected spectra of a deuterated protein at 40 and 60ÂkHz magic-angle-spinning. Journal of Biomolecular NMR, 2015, 61, 161-171.	2.8	34
142	Protein residue linking in a single spectrum for magic-angle spinning NMR assignment. Journal of Biomolecular NMR, 2015, 62, 253-261.	2.8	44
143	Influences of Dilute Organic Adsorbates on the Hydration of Low-Surface-Area Silicates. Journal of the American Chemical Society, 2015, 137, 8096-8112.	13.7	85
144	Structure and Mechanism of the Influenza A M2_{18â€“60} Dimer of Dimers. Journal of the American Chemical Society, 2015, 137, 14877-14886.	13.7	103

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145	Direct observation of hierarchical protein dynamics. Science, 2015, 348, 578-581.	12.6	222
146	Macroscopic nuclear spin diffusion constants of rotating polycrystalline solids from first-principles simulation. Journal of Magnetic Resonance, 2015, 254, 48-55.	2.1	18
147	Cooperative Effect of Monopodal Silica-Supported Niobium Complex Pairs Enhancing Catalytic Cyclic Carbonate Production. Journal of the American Chemical Society, 2015, 137, 7728-7739.	13.7	123
148	Superstructure of a Substituted Zeolitic Imidazolate Metalâ€“Organic Framework Determined by Combining Proton Solidâ€State NMR Spectroscopy and DFT Calculations. Angewandte Chemie - International Edition, 2015, 54, 5971-5976.	13.8	38
149	High-resolution NMR of hydrogen in organic solids by DNP enhanced natural abundance deuterium spectroscopy. Journal of Magnetic Resonance, 2015, 259, 192-198.	2.1	26
150	Nanostructure of Materials Determined by Relayed Paramagnetic Relaxation Enhancement. Journal of the American Chemical Society, 2015, 137, 12482-12485.	13.7	19
151	Polymorphs of Theophylline Characterized by DNP Enhanced Solid-State NMR. Molecular Pharmaceutics, 2015, 12, 4146-4153.	4.6	77
152	Structure of Colloidal Quantum Dots from Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. Journal of the American Chemical Society, 2015, 137, 13964-13971.	13.7	105
153	Atomic Description of the Interface between Silica and Alumina in Aluminosilicates through Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy and First-Principles Calculations. Journal of the American Chemical Society, 2015, 137, 10710-10719.	13.7	129
154	A solid-state NMR method to determine domain sizes in multi-component polymer formulations. Journal of Magnetic Resonance, 2015, 261, 43-48.	2.1	14
155	Highâ€Resolution ¹H Solidâ€State NMR Spectroscopy Using Windowed LG4 Homonuclear Dipolar Decoupling. Israel Journal of Chemistry, 2014, 54, 136-146.	2.3	13
156	NMR Signatures of the Active Sites in Snâ€Î²â€…Zeolite. Angewandte Chemie, 2014, 126, 10343-10347.	2.0	46
157	Silica-surface reorganization during organotin grafting evidenced by 119Sn DNP SENS: a tandem reaction of gem-silanols and strained siloxane bridges. Physical Chemistry Chemical Physics, 2014, 16, 17822-17827.	2.8	40
158	Metabolic expressivity of human genetic variants: NMR metabotyping of MEN1 pathogenic mutants. Journal of Pharmaceutical and Biomedical Analysis, 2014, 93, 118-124.	2.8	4
159	Dynamic Nuclear Polarization Enhanced NMR Spectroscopy for Pharmaceutical Formulations. Journal of the American Chemical Society, 2014, 136, 2324-2334.	13.7	145
160	Amplifying Dynamic Nuclear Polarization of Frozen Solutions by Incorporating Dielectric Particles. Journal of the American Chemical Society, 2014, 136, 15711-15718.	13.7	103
161	NMR Signatures of the Active Sites in Snâ€Î²â€…Zeolite. Angewandte Chemie - International Edition, 2014, 53, 10179-10183.	13.8	157
162	Homonuclear Decoupling of ¹H Dipolar Interactions in Solids by means of Heteronuclear Recoupling. Israel Journal of Chemistry, 2014, 54, 154-162.	2.3	2

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163	Sn surface-enriched Ptâ€“Sn bimetallic nanoparticles as a selective and stable catalyst for propane dehydrogenation. Journal of Catalysis, 2014, 320, 52-62.	6.2	144
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