

# Lyndon Emsley

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7832035/publications.pdf>

Version: 2024-02-01

374  
papers

28,624  
citations

3668

92  
h-index

9865

146  
g-index

395  
all docs

395  
docs citations

395  
times ranked

18529  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudo-halide anion engineering for $\pm$ -FAPbI <sub>3</sub> perovskite solar cells. <i>Nature</i> , 2021, 592, 381-385.	13.7	2,095
2	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI <sub>3</sub> perovskite solar cells. <i>Science</i> , 2020, 370, .	6.0	530
3	Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2013, 46, 1942-1951.	7.6	524
4	Surface Enhanced NMR Spectroscopy by Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2010, 132, 15459-15461.	6.6	488
5	Through-Bond Carbon <sup>13</sup> Carbon Connectivities in Disordered Solids by NMR. <i>Journal of the American Chemical Society</i> , 1999, 121, 10987-10993.	6.6	412
6	Europium-Doped CsPbI <sub>2</sub> Br for Stable and Highly Efficient Inorganic Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 205-214.	11.7	387
7	Large Molecular Weight Nitroxide Biradicals Providing Efficient Dynamic Nuclear Polarization at Temperatures up to 200 K. <i>Journal of the American Chemical Society</i> , 2013, 135, 12790-12797.	6.6	355
8	Gaussian pulse cascades: New analytical functions for rectangular selective inversion and in-phase excitation in NMR. <i>Chemical Physics Letters</i> , 1990, 165, 469-476.	1.2	323
9	Phase Segregation in Cs-, Rb- and K-Doped Mixed-Cation (MA) <sub>1-x</sub> (FA) <sub>x</sub> PbI <sub>3</sub> Hybrid Perovskites from Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2017, 139, 14173-14180.	6.6	317
10	Homonuclear dipolar decoupling in solid-state NMR using continuous phase modulation. <i>Chemical Physics Letters</i> , 2000, 319, 253-260.	1.2	282
11	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 3008.	5.8	268
12	Multifunctional molecular modulators for perovskite solar cells with over 20% efficiency and high operational stability. <i>Nature Communications</i> , 2018, 9, 4482.	5.8	266
13	Fast Characterization of Functionalized Silica Materials by Silicon-29 Surface-Enhanced NMR Spectroscopy Using Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2011, 133, 2104-2107.	6.6	254
14	Rapid Proton-Detected NMR Assignment for Proteins with Fast Magic Angle Spinning. <i>Journal of the American Chemical Society</i> , 2014, 136, 12489-12497.	6.6	254
15	Dynamic Nuclear Polarization NMR Spectroscopy of Microcrystalline Solids. <i>Journal of the American Chemical Society</i> , 2012, 134, 16899-16908.	6.6	242
16	Characterization of different water pools in solid-state NMR protein samples. <i>Journal of Biomolecular NMR</i> , 2009, 45, 319-327.	1.6	239
17	Formation of Stable Mixed Guanidinium <sup>+</sup> Methylammonium Phases with Exceptionally Long Carrier Lifetimes for High-Efficiency Lead Iodide-Based Perovskite Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018, 140, 3345-3351.	6.6	235
18	Structure of fully protonated proteins by proton-detected magic-angle spinning NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9187-9192.	3.3	224

#	ARTICLE	IF	CITATIONS
19	Direct observation of hierarchical protein dynamics. <i>Science</i> , 2015, 348, 578-581.	6.0	222
20	The structure and binding mode of citrate in the stabilization of gold nanoparticles. <i>Nature Chemistry</i> , 2017, 9, 890-895.	6.6	222
21	Determination of Through-Bond Carbon <sup>13</sup> Carbon Connectivities in Solid-State NMR Using the INADEQUATE Experiment. <i>Journal of the American Chemical Society</i> , 1997, 119, 7867-7868.	6.6	210
22	Cation Dynamics in Mixed-Cation (MA) <sub>1-x</sub> (FA) <sub>1-x</sub> Pb <sub>3</sub> Hybrid Perovskites from Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2017, 139, 10055-10061.	6.6	209
23	Carbon <sup>13</sup> Proton Chemical Shift Correlation in Solid-State NMR by Through-Bond Multiple-Quantum Spectroscopy. <i>Journal of the American Chemical Society</i> , 1998, 120, 13194-13201.	6.6	206
24	Sensitivity enhancement of the central transition NMR signal of quadrupolar nuclei under magic-angle spinning. <i>Chemical Physics Letters</i> , 2000, 327, 85-90.	1.2	204
25	Powder Crystallography by Combined Crystal Structure Prediction and High-Resolution <sup>1</sup> H Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 2564-2566.	6.6	201
26	Solid-state NMR spectroscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	196
27	Direct spectral optimisation of proton <sup>15</sup> proton homonuclear dipolar decoupling in solid-state NMR. <i>Chemical Physics Letters</i> , 2004, 398, 532-538.	1.2	188
28	A Slowly Relaxing Rigid Biradical for Efficient Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy: Expedient Characterization of Functional Group Manipulation in Hybrid Materials. <i>Journal of the American Chemical Society</i> , 2012, 134, 2284-2291.	6.6	182
29	Powder NMR crystallography of thymol. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2610.	1.3	180
30	The Atomic-Level Structure of Cementitious Calcium Silicate Hydrate. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17188-17196.	1.5	178
31	Structure and backbone dynamics of a microcrystalline metalloprotein by solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11095-11100.	3.3	173
32	<i>De Novo</i> Determination of the Crystal Structure of a Large Drug Molecule by Crystal Structure Prediction-Based Powder NMR Crystallography. <i>Journal of the American Chemical Society</i> , 2013, 135, 17501-17507.	6.6	173
33	Chemical shifts in molecular solids by machine learning. <i>Nature Communications</i> , 2018, 9, 4501.	5.8	170
34	Experimental aspects of proton NMR spectroscopy in solids using phase-modulated homonuclear dipolar decoupling. <i>Journal of Magnetic Resonance</i> , 2003, 163, 105-113.	1.2	169
35	Molecular Structure Determination in Powders by NMR Crystallography from Proton Spin Diffusion. <i>Journal of the American Chemical Society</i> , 2006, 128, 9555-9560.	6.6	165
36	Powder Crystallography by Proton Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 9140-9146.	6.6	164

#	ARTICLE	IF	CITATIONS
37	Complete Assignment of Heteronuclear Protein Resonances by Protonless NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3089-3092.	7.2	162
38	Dynamic Nuclear Polarization Enhanced Solid-State NMR Spectroscopy of Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 123-127.	7.2	161
39	Fast Resonance Assignment and Fold Determination of Human Superoxide Dismutase by High-Resolution Proton-Detected Solid-State MAS NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11697-11701.	7.2	157
40	NMR Signatures of the Active Sites in Sn <sup>2+</sup> -Zeolite. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10179-10183.	7.2	157
41	Surface versus Molecular Siloxy Ligands in Well-Defined Olefin Metathesis Catalysts: [(RO) <sub>3</sub> SiO]Mo( $\eta^3$ Ar)( $\eta^3$ CHtBu)(CH <sub>2</sub> tBu). <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1216-1220.	7.2	155
42	Non-aqueous solvents for DNP surface enhanced NMR spectroscopy. <i>Chemical Communications</i> , 2012, 48, 654-656.	2.2	155
43	Powder crystallography of pharmaceutical materials by combined crystal structure prediction and solid-state 1H NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8069.	1.3	155
44	Dynamic Nuclear Polarization Enhanced NMR Spectroscopy for Pharmaceutical Formulations. <i>Journal of the American Chemical Society</i> , 2014, 136, 2324-2334.	6.6	145
45	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 19980-19991.	6.6	145
46	Sn surface-enriched Pt-Sn bimetallic nanoparticles as a selective and stable catalyst for propane dehydrogenation. <i>Journal of Catalysis</i> , 2014, 320, 52-62.	3.1	144
47	Assigning carbon-13 NMR spectra to crystal structures by the INADEQUATE pulse sequence and first principles computation: a case study of two forms of testosterone. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 137-143.	1.3	142
48	One hundred fold overall sensitivity enhancements for Silicon-29 NMR spectroscopy of surfaces by dynamic nuclear polarization with CPMG acquisition. <i>Chemical Science</i> , 2012, 3, 108-115.	3.7	141
49	Rational design of dinitroxide biradicals for efficient cross-effect dynamic nuclear polarization. <i>Chemical Science</i> , 2016, 7, 550-558.	3.7	141
50	Proton to Carbon-13 INEPT in Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 17296-17302.	6.6	138
51	Addition of adamantylammonium iodide to hole transport layers enables highly efficient and electroluminescent perovskite solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 3310-3320.	15.6	137
52	Detailed Structural Investigation of the Grafting of [Ta(CHtBu)(CH <sub>2</sub> tBu) <sub>3</sub> ] and [Cp*TaMe <sub>4</sub> ] on Silica Partially Dehydroxylated at 700 °C and the Activity of the Grafted Complexes toward Alkane Metathesis. <i>Journal of the American Chemical Society</i> , 2004, 126, 13391-13399.	6.6	136
53	Phase Segregation in Potassium-Doped Lead Halide Perovskites from <sup>39</sup> K Solid-State NMR at 21.1 T. <i>Journal of the American Chemical Society</i> , 2018, 140, 7232-7238.	6.6	130
54	Atomic Description of the Interface between Silica and Alumina in Aluminosilicates through Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy and First-Principles Calculations. <i>Journal of the American Chemical Society</i> , 2015, 137, 10710-10719.	6.6	129

#	ARTICLE	IF	CITATIONS
55	Molecular Understanding of the Formation of Surface Zirconium Hydrides upon Thermal Treatment under Hydrogen of $[(\text{SiO})\text{Zr}(\text{CH}_2\text{tBu})_3]$ by Using Advanced Solid-State NMR Techniques. <i>Journal of the American Chemical Society</i> , 2004, 126, 12541-12550.	6.6	127
56	NMR Crystallography of Campho[2,3-c]pyrazole ( $Z = 6$ ): Combining High-Resolution $^1\text{H}$ - $^{13}\text{C}$ Solid-State MAS NMR Spectroscopy and GIPAW Chemical-Shift Calculations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10435-10442.	1.1	127
57	Enhanced Resolution and Coherence Lifetimes in the Solid-State NMR Spectroscopy of Perdeuterated Proteins under Ultrafast Magic-Angle Spinning. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2205-2211.	2.1	123
58	Dynamic nuclear polarization of quadrupolar nuclei using cross polarization from protons: surface-enhanced aluminium-27 NMR. <i>Chemical Communications</i> , 2012, 48, 1988.	2.2	123
59	Cooperative Effect of Monopodal Silica-Supported Niobium Complex Pairs Enhancing Catalytic Cyclic Carbonate Production. <i>Journal of the American Chemical Society</i> , 2015, 137, 7728-7739.	6.6	123
60	Spin-Transfer Pathways in Paramagnetic Lithium Transition-Metal Phosphates from Combined Broadband Isotropic Solid-State MAS NMR Spectroscopy and DFT Calculations. <i>Journal of the American Chemical Society</i> , 2012, 134, 17178-17185.	6.6	122
61	Structure of Lipid Nanoparticles Containing siRNA or mRNA by Dynamic Nuclear Polarization-Enhanced NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2073-2081.	1.2	121
62	Resolving Structures from Powders by NMR Crystallography Using Combined Proton Spin Diffusion and Plane Wave DFT Calculations. <i>Journal of the American Chemical Society</i> , 2007, 129, 8932-8933.	6.6	120
63	Probing Proton-Proton Proximities in the Solid State: A High-Resolution Two-Dimensional $^1\text{H}$ - $^1\text{H}$ Double-Quantum CRAMPS NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 13230-13231.	6.6	118
64	Perhydrocarbyl ReVII Complexes: Comparison of Molecular and Surface Complexes. <i>Journal of the American Chemical Society</i> , 2003, 125, 492-504.	6.6	116
65	Solid-State NMR of a Paramagnetic DIAD-FelI Catalyst: A Sensitivity, Resolution Enhancement, and Structure-Based Assignments. <i>Journal of the American Chemical Society</i> , 2006, 128, 13545-13552.	6.6	112
66	Fast adiabatic pulses for solid-state NMR of paramagnetic systems. <i>Chemical Physics Letters</i> , 2007, 435, 157-162.	1.2	112
67	Quantitative Analysis of Backbone Dynamics in a Crystalline Protein from Nitrogen-15 Spin Lattice Relaxation. <i>Journal of the American Chemical Society</i> , 2005, 127, 18190-18201.	6.6	111
68	Gold Nanoparticles Supported on Passivated Silica: Access to an Efficient Aerobic Epoxidation Catalyst and the Intrinsic Oxidation Activity of Gold. <i>Journal of the American Chemical Society</i> , 2009, 131, 14667-14669.	6.6	111
69	High-Resolution NMR Correlation Spectra of Disordered Solids. <i>Journal of the American Chemical Society</i> , 2003, 125, 4376-4380.	6.6	110
70	NMR studies of the surface structure and dynamics of semiconductor nanocrystals. <i>Chemical Physics Letters</i> , 1992, 198, 431-436.	1.2	109
71	Fast acquisition of multi-dimensional spectra in solid-state NMR enabled by ultra-fast MAS. <i>Journal of Magnetic Resonance</i> , 2009, 196, 133-141.	1.2	109
72	Ultrafast MAS Solid-State NMR Permits Extensive $^{13}\text{C}$ and $^1\text{H}$ Detection in Paramagnetic Metalloproteins. <i>Journal of the American Chemical Society</i> , 2010, 132, 5558-5559.	6.6	109

#	ARTICLE	IF	CITATIONS
73	Metabotyping of <i>Caenorhabditis elegans</i> reveals latent phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19808-19812.	3.3	107
74	The Atomic-Level Structure of Cementitious Calcium Aluminate Silicate Hydrate. <i>Journal of the American Chemical Society</i> , 2020, 142, 11060-11071.	6.6	107
75	The reliability of the determination of tensor parameters by solid-state nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1997, 107, 4808-4816.	1.2	106
76	Correlating Synthetic Methods, Morphology, Atomic-Level Structure, and Catalytic Activity of Sn <sup>II</sup> Catalysts. <i>ACS Catalysis</i> , 2016, 6, 4047-4063.	5.5	106
77	Site-Specific Measurement of Slow Motions in Proteins. <i>Journal of the American Chemical Society</i> , 2011, 133, 16762-16765.	6.6	105
78	Structure of Colloidal Quantum Dots from Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 13964-13971.	6.6	105
79	Ba-induced phase segregation and band gap reduction in mixed-halide inorganic perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 4686.	5.8	105
80	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. <i>Journal of the American Chemical Society</i> , 2019, 141, 17659-17669.	6.6	104
81	Amplifying Dynamic Nuclear Polarization of Frozen Solutions by Incorporating Dielectric Particles. <i>Journal of the American Chemical Society</i> , 2014, 136, 15711-15718.	6.6	103
82	Structure and Mechanism of the Influenza A M2 <sup>60</sup> Dimer of Dimers. <i>Journal of the American Chemical Society</i> , 2015, 137, 14877-14886.	6.6	103
83	Optimization of shaped selective pulses for NMR using a quaternion description of their overall propagators. <i>Journal of Magnetic Resonance</i> , 1992, 97, 135-148.	0.5	102
84	NMR crystallography of oxybuprocaine hydrochloride, Modification II <sup>o</sup> . <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 360-368.	1.3	102
85	Solid-State NMR Spectroscopy of a Paramagnetic Protein: Assignment and Study of Human Dimeric Oxidized Cu <sup>II</sup> Superoxide Dismutase (SOD). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1079-1082.	7.2	100
86	Through-Bond Heteronuclear Single-Quantum Correlation Spectroscopy in Solid-State NMR, and Comparison to Other Through-Bond and Through-Space Experiments. <i>Journal of Magnetic Resonance</i> , 2001, 148, 449-454.	1.2	99
87	BDPA-Nitroxide Biradicals Tailored for Efficient Dynamic Nuclear Polarization Enhanced Solid-State NMR at Magnetic Fields up to 21.1 T. <i>Journal of the American Chemical Society</i> , 2018, 140, 13340-13349.	6.6	99
88	Dynamics of Silica-Supported Catalysts Determined by Combining Solid-State NMR Spectroscopy and DFT Calculations. <i>Journal of the American Chemical Society</i> , 2008, 130, 5886-5900.	6.6	98
89	High resolution solid state NMR spectroscopy in surface organometallic chemistry: access to molecular understanding of active sites of well-defined heterogeneous catalysts. <i>Chemical Society Reviews</i> , 2008, 37, 518-526.	18.7	97
90	Evidence for Metal <sup>II</sup> Surface Interactions and Their Role in Stabilizing Well-Defined Immobilized Ru <sup>II</sup> -NHC Alkene Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2013, 135, 3193-3199.	6.6	96

#	ARTICLE	IF	CITATIONS
91	<sup>129</sup> Xe NMR Spectroscopy of Deuterium-Labeled Cryptophane-A Xenon Complexes: A Investigation of Host-Guest Complexation Dynamics. <i>Journal of the American Chemical Society</i> , 2000, 122, 1171-1174.	6.6	95
92	Backbone Assignment of Fully Protonated Solid Proteins by <sup>1</sup> H Detection and Ultrafast Magic-Angle Spinning NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10756-10759.	7.2	95
93	One-step mechanochemical incorporation of an insoluble cesium additive for high performance planar heterojunction solar cells. <i>Nano Energy</i> , 2018, 49, 523-528.	8.2	95
94	Hybrid polarizing solids for pure hyperpolarized liquids through dissolution dynamic nuclear polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14693-14697.	3.3	93
95	Structure of outer membrane protein G in lipid bilayers. <i>Nature Communications</i> , 2017, 8, 2073.	5.8	91
96	Supramolecular Engineering for Formamidinium-Based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solid-State NMR Spectroscopy. <i>Advanced Energy Materials</i> , 2019, 9, 1900284.	10.2	89
97	Statistical Recoupling Prior to Significance Testing in Nuclear Magnetic Resonance Based Metabonomics. <i>Analytical Chemistry</i> , 2009, 81, 6242-6251.	3.2	88
98	Measuring Nano- to Microstructures from Relayed Dynamic Nuclear Polarization NMR. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15993-16005.	1.5	88
99	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. <i>Joule</i> , 2020, 4, 222-234.	11.7	88
100	Site-Specific Backbone Dynamics from a Crystalline Protein by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 11422-11423.	6.6	87
101	Unraveling the Core-Shell Structure of Ligand-Capped Sn/SnO <sub>x</sub> Nanoparticles by Surface-Enhanced Nuclear Magnetic Resonance, Mössbauer, and X-ray Absorption Spectroscopies. <i>ACS Nano</i> , 2014, 8, 2639-2648.	7.3	87
102	Solid-State Dynamic Nuclear Polarization at 9.4 and 18.8 T from 100 K to Room Temperature. <i>Journal of the American Chemical Society</i> , 2015, 137, 14558-14561.	6.6	87
103	<sup>35</sup> Cl dynamic nuclear polarization solid-state NMR of active pharmaceutical ingredients. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25893-25904.	1.3	87
104	Carbon-13 Spectral Editing in Solid-State NMR Using Heteronuclear Scalar Couplings. <i>Journal of the American Chemical Society</i> , 1998, 120, 7095-7100.	6.6	86
105	Direct observation of reaction intermediates for a well defined heterogeneous alkene metathesis catalyst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12123-12127.	3.3	86
106	Transportable hyperpolarized metabolites. <i>Nature Communications</i> , 2017, 8, 13975.	5.8	86
107	Measurement of Carbon-Proton Dipolar Couplings in Liquid Crystals by Local Dipolar Field NMR Spectroscopy. <i>The Journal of Physical Chemistry</i> , 1996, 100, 18696-18701.	2.9	85
108	Influences of Dilute Organic Adsorbates on the Hydration of Low-Surface-Area Silicates. <i>Journal of the American Chemical Society</i> , 2015, 137, 8096-8112.	6.6	85

#	ARTICLE	IF	CITATIONS
109	Principles of Spin-Echo Modulation by J-Couplings in Magic-Angle-Spinning Solid-State NMR. <i>ChemPhysChem</i> , 2004, 5, 815-833.	1.0	84
110	WMe <sub>6</sub> Tamed by Silica: WMe <sub>5</sub> as an Efficient, Well-Defined Species for Alkane Metathesis, Leading to the Observation of a Supported Methyl/Methyldiyne Species. <i>Journal of the American Chemical Society</i> , 2014, 136, 1054-1061.	6.6	84
111	Complete <sup>1</sup> H resonance assignment of <sup>12</sup> C-maltose from <sup>1</sup> H- <sup>1</sup> H DQ-SQ CRAMPS and <sup>1</sup> H (DQ-DUMBO)- <sup>13</sup> C SQ refocused INEPT 2D solid-state NMR spectra and first principles GIPAW calculations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6970.	1.3	83
112	A Well-Defined Silica-Supported Tungsten Oxo Alkylidene Is a Highly Active Alkene Metathesis Catalyst. <i>Journal of the American Chemical Society</i> , 2013, 135, 19068-19070.	6.6	83
113	Through-space contributions to two-dimensional double-quantum J correlation NMR spectra of magic-angle-spinning solids. <i>Journal of Chemical Physics</i> , 2005, 122, 194313.	1.2	82
114	Band-Selective <sup>13</sup> C Cross-Polarization in Fast Magic Angle Spinning Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 17216-17217.	6.6	81
115	Enhanced sensitivity in high-resolution <sup>1</sup> H solid-state NMR spectroscopy with DUMBO dipolar decoupling under ultra-fast MAS. <i>Chemical Physics Letters</i> , 2009, 469, 336-341.	1.2	80
116	Measurement of Site-Specific <sup>13</sup> C Spin Lattice Relaxation in a Crystalline Protein. <i>Journal of the American Chemical Society</i> , 2010, 132, 8252-8254.	6.6	80
117	Well-Defined Surface Tungstenocarbonyl Complexes through the Reaction of [W( <sup>o</sup> CtBu)(CH <sub>2</sub> tBu) <sub>3</sub> ] with Silica. <i>Organometallics</i> , 2005, 24, 4274-4279.	1.1	79
118	Assigning powders to crystal structures by high-resolution <sup>1</sup> H- <sup>1</sup> H double quantum and <sup>1</sup> H- <sup>13</sup> C J-INEPT solid-state NMR spectroscopy and first principles computation. A case study of penicillin G. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3418-3422.	1.3	79
119	Well-Defined Surface Imido Amido Tantalum(V) Species from Ammonia and Silica-Supported Tantalum Hydrides. <i>Journal of the American Chemical Society</i> , 2007, 129, 176-186.	6.6	79
120	Magic Angle Spinning NMR of Paramagnetic Proteins. <i>Accounts of Chemical Research</i> , 2013, 46, 2108-2116.	7.6	78
121	Phase shifts induced by transient Bloch-Siegert effects in NMR. <i>Chemical Physics Letters</i> , 1990, 168, 297-303.	1.2	77
122	The Direct Detection of a Hydrogen Bond in the Solid State by NMR through the Observation of a Hydrogen-Bond Mediated <sup>15</sup> N- <sup>15</sup> N Coupling. <i>Journal of the American Chemical Society</i> , 2002, 124, 1152-1153.	6.6	77
123	Observation of a H-Agostic Bond in a Highly Active Rhenium Alkylidene Olefin Metathesis Heterogeneous Catalyst by Two-Dimensional Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4535-4538.	7.2	77
124	Polymorphs of Theophylline Characterized by DNP Enhanced Solid-State NMR. <i>Molecular Pharmaceutics</i> , 2015, 12, 4146-4153.	2.3	77
125	Molecular Insight Into Surface Organometallic Chemistry Through the Combined Use of 2D HETCOR Solid-State NMR Spectroscopy and Silsesquioxane Analogues We are also indebted to the CNRS, ENS Lyon, and ESCPE Lyon for financial support. M.C. is grateful to the French ministry of education, research, and technology (MENRT) for a pre-doctoral fellowship. E.A.Q. gratefully acknowledges Università di Pisa and S.N.A.M. for financial support. 2D HETCOR=two-dimensional heteronuclear correlation. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4493.	7.2	76
126	The refocused INADEQUATE MAS NMR experiment in multiple spin-systems: Interpreting observed correlation peaks and optimising lineshapes. <i>Journal of Magnetic Resonance</i> , 2007, 188, 24-34.	1.2	76

#	ARTICLE	IF	CITATIONS
127	Computation and NMR crystallography of terbutaline sulfate. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, S103-S112.	1.1	76
128	Two-dimensional spin-exchange solid-state NMR studies of <sup>13</sup> C-enriched wood. <i>Solid State Nuclear Magnetic Resonance</i> , 1997, 8, 25-32.	1.5	75
129	Three-Dimensional Structure Determination of Surface Sites. <i>Journal of the American Chemical Society</i> , 2017, 139, 849-855.	6.6	75
130	Synthesis of Deuterium-Labeled Cryptophane-A and Investigation of Xe@Cryptophane Complexation Dynamics by 1D-EXSY NMR Experiments. <i>Chemistry - A European Journal</i> , 2001, 7, 1561-1573.	1.7	74
131	Dynamic nuclear polarization at 40 kHz magic angle spinning. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10616-10622.	1.3	74
132	Complete Resonance Assignment of a Natural Abundance Solid Peptide by Through-Bond Heteronuclear Correlation Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2000, 122, 9739-9744.	6.6	73
133	NMR spectroscopy probes microstructure, dynamics and doping of metal halide perovskites. <i>Nature Reviews Chemistry</i> , 2021, 5, 624-645.	13.8	73
134	Characterization of Surface Organometallic Complexes Using High Resolution 2D Solid-State NMR Spectroscopy. Application to the Full Characterization of a Silica Supported Metal Carbyne: $\text{SiO}_2\text{-Mo}(\text{C}\equiv\text{C}-\text{Bu}-\text{t})_2$ . <i>Journal of the American Chemical Society</i> , 2001, 123, 3820-3821.	6.6	72
135	The performance of phase modulated heteronuclear dipolar decoupling schemes in fast magic-angle-spinning nuclear magnetic resonance experiments. <i>Journal of Chemical Physics</i> , 2003, 119, 4833-4841.	1.2	72
136	Multimodal host-guest complexation for efficient and stable perovskite photovoltaics. <i>Nature Communications</i> , 2021, 12, 3383.	5.8	72
137	TinyPols: a family of water-soluble binitroxides tailored for dynamic nuclear polarization enhanced NMR spectroscopy at 18.8 and 21.1 T. <i>Chemical Science</i> , 2020, 11, 2810-2818.	3.7	72
138	Improved Resolution in Proton NMR Spectroscopy of Powdered Solids. <i>Journal of the American Chemical Society</i> , 2001, 123, 5747-5752.	6.6	71
139	Chemical Shift Correlations in Disordered Solids. <i>Journal of the American Chemical Society</i> , 2005, 127, 4466-4476.	6.6	71
140	Investigation of Dipolar-Mediated Water-Protein Interactions in Microcrystalline Crh by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 8246-8255.	6.6	69
141	Supramolecular Modulation of Hybrid Perovskite Solar Cells via Bifunctional Halogen Bonding Revealed by Two-Dimensional <sup>19</sup> F Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 1645-1654.	6.6	69
142	Self-refocusing effect of 270° Gaussian pulses. Applications to selective two-dimensional exchange spectroscopy. <i>Journal of Magnetic Resonance</i> , 1989, 82, 211-221.	0.5	68
143	Solution-State NMR Studies of the Surface Structure and Dynamics of Semiconductor Nanocrystals. <i>Journal of Physical Chemistry B</i> , 1998, 102, 10117-10128.	1.2	67
144	The Accuracy of Distance Measurements in Solid-State NMR. <i>Journal of Magnetic Resonance</i> , 1999, 139, 46-59.	1.2	67

#	ARTICLE	IF	CITATIONS
145	Through-bond phosphorus <sup>31</sup> P phosphorus connectivities in crystalline and disordered phosphates by solid-state NMR. <i>Chemical Communications</i> , 2002, , 1702-1703.	2.2	66
146	Spin-state selection in solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2003, 164, 187-195.	1.2	66
147	Resolution Enhancement in Multidimensional Solid-State NMR Spectroscopy of Proteins Using Spin-State Selection. <i>Journal of the American Chemical Society</i> , 2003, 125, 11816-11817.	6.6	66
148	Dynamic Nuclear Polarization Enhancement of <sup>200</sup> Tl at 21.15 T Enabled by 65 kHz Magic Angle Spinning. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8386-8391.	2.1	66
149	Local Structure and Dynamics in Methylammonium, Formamidinium, and Cesium Tin(II) Mixed-Halide Perovskites from <sup>119</sup> Sn Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2020, 142, 7813-7826.	6.6	66
150	Alkane Metathesis with the Tantalum Methylidene [( <sup>18</sup> O) <sub>2</sub> Ta(=CH) <sub>2</sub> Me] <sub>2</sub> Generated from Well-Defined Surface Organometallic Complex [( <sup>18</sup> O) <sub>2</sub> Ta(=V)Me <sub>4</sub> ]. <i>Journal of the American Chemical Society</i> , 2015, 137, 588-591.	6.6	65
151	Donor-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. <i>Chemical Science</i> , 2017, 8, 3126-3136.	3.7	64
152	Improved heteronuclear decoupling schemes for solid-state magic angle spinning NMR by direct spectral optimization. <i>Chemical Physics Letters</i> , 2003, 376, 259-267.	1.2	63
153	Crystal Structure Determination of Powdered Paramagnetic Lanthanide Complexes by Proton NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3082-3086.	7.2	63
154	A Well-Defined Pd Hybrid Material for the <sup>13</sup> C-Selective Semihydrogenation of Alkynes Characterized at the Molecular Level by DNP SENS. <i>Chemistry - A European Journal</i> , 2013, 19, 12234-12238.	1.7	61
155	DNP-Enhanced solid-state NMR spectroscopy of active pharmaceutical ingredients. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 583-609.	1.1	61
156	Cellulose phosphorylation comparison and analysis of phosphate position on cellulose fibers. <i>Carbohydrate Polymers</i> , 2020, 229, 115294.	5.1	61
157	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4691-4697.	7.2	61
158	Doping and phase segregation in Mn <sup>2+</sup> - and Co <sup>2+</sup> -doped lead halide perovskites from <sup>133</sup> Cs and <sup>1</sup> H NMR relaxation enhancement. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2326-2333.	5.2	59
159	Absence of Curie Relaxation in Paramagnetic Solids Yields Long <sup>1</sup> H Coherence Lifetimes. <i>Journal of the American Chemical Society</i> , 2007, 129, 14118-14119.	6.6	58
160	Improved Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy through Controlled Incorporation of Deuterated Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1222-1225.	7.2	58
161	Local Structures and Heterogeneity of Silica-Supported M(III) Sites Evidenced by EPR, IR, NMR, and Luminescence Spectroscopies. <i>Journal of the American Chemical Society</i> , 2017, 139, 8855-8867.	6.6	58
162	Nucleobase pairing and photodimerization in a biologically derived metal-organic framework nanoreactor. <i>Nature Communications</i> , 2019, 10, 1612.	5.8	58

#	ARTICLE	IF	CITATIONS
163	Solid-state NMR characterization of hydration effects on polymer mobility in onion cell-wall material. <i>Carbohydrate Research</i> , 1999, 322, 102-112.	1.1	57
164	The influence of nitrogen-15 proton-driven spin diffusion on the measurement of nitrogen-15 longitudinal relaxation times. <i>Journal of Magnetic Resonance</i> , 2007, 184, 51-61.	1.2	57
165	Solid-Phase Polarization Matrixes for Dynamic Nuclear Polarization from Homogeneously Distributed Radicals in Mesostructured Hybrid Silica Materials. <i>Journal of the American Chemical Society</i> , 2013, 135, 15459-15466.	6.6	56
166	Molecular-level characterization of the structure and the surface chemistry of periodic mesoporous organosilicates using DNP-surface enhanced NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13270.	1.3	56
167	Reactive surface organometallic complexes observed using dynamic nuclear polarization surface enhanced NMR spectroscopy. <i>Chemical Science</i> , 2017, 8, 284-290.	3.7	55
168	Nanoscale Phase Segregation in Supramolecular $\pi$ -Templating for Hybrid Perovskite Photovoltaics from NMR Crystallography. <i>Journal of the American Chemical Society</i> , 2021, 143, 1529-1538.	6.6	55
169	Out-and-back $^{13}\text{C}$ - $^{13}\text{C}$ scalar transfers in protein resonance assignment by proton-detected solid-state NMR under ultra-fast MAS. <i>Journal of Biomolecular NMR</i> , 2013, 56, 379-386.	1.6	54
170	Well-Defined Silica-Supported $\text{Mo}^{\text{VI}}$ -Alkylidene Catalyst Precursors Containing One OR Substituent: Methods of Preparation and Structure-Reactivity Relationship in Alkene Metathesis. <i>Chemistry - A European Journal</i> , 2009, 15, 5083-5089.	1.7	53
171	Rapid Measurement of Pseudocontact Shifts in Metalloproteins by Proton-Detected Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2012, 134, 14730-14733.	6.6	53
172	Conformational dynamics in crystals reveal the molecular bases for D76N beta-2 microglobulin aggregation propensity. <i>Nature Communications</i> , 2018, 9, 1658.	5.8	53
173	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4743-4747.	7.2	52
174	Dynamic Nuclear Polarization Efficiency Increased by Very Fast Magic Angle Spinning. <i>Journal of the American Chemical Society</i> , 2017, 139, 10609-10612.	6.6	52
175	Metabolic Profiling Strategy of <i>Caenorhabditis elegans</i> by Whole-Organism Nuclear Magnetic Resonance. <i>Journal of Proteome Research</i> , 2009, 8, 2542-2550.	1.8	51
176	Characterization of heteronuclear decoupling through proton spin dynamics in solid-state nuclear magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2004, 121, 3165-3180.	1.2	50
177	Water-Protein Hydrogen Exchange in the Micro-Crystalline Protein Crh as Observed by Solid State NMR Spectroscopy. <i>Journal of Biomolecular NMR</i> , 2005, 32, 195-207.	1.6	50
178	Characterising local environments in high energy density Li-ion battery cathodes: a combined NMR and first principles study of $\text{LiFe}_x\text{Co}_{1-x}\text{PO}_4$ . <i>Journal of Materials Chemistry A</i> , 2014, 2, 11948-11957.	5.2	50
179	Monolayer Doping of Silicon through Grafting a Tailored Molecular Phosphorus Precursor onto Oxide-Passivated Silicon Surfaces. <i>Chemistry of Materials</i> , 2016, 28, 3634-3640.	3.2	50
180	Bulk Nuclear Hyperpolarization of Inorganic Solids by Relay from the Surface. <i>Journal of the American Chemical Society</i> , 2018, 140, 7946-7951.	6.6	50

#	ARTICLE	IF	CITATIONS
181	Superadiabaticity in magnetic resonance. <i>Journal of Chemical Physics</i> , 2008, 129, 204110.	1.2	49
182	Selective NMR Measurements of Homonuclear Scalar Couplings in Isotopically Enriched Solids. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16982-16991.	1.2	48
183	Atomistic Description of Thiostannate-Capped CdSe Nanocrystals: Retention of Four-Coordinate SnS <sub>4</sub> Motif and Preservation of Cd-Rich Stoichiometry. <i>Journal of the American Chemical Society</i> , 2015, 137, 1862-1874.	6.6	48
184	Positional Variance in NMR Crystallography. <i>Journal of the American Chemical Society</i> , 2017, 139, 2573-2576.	6.6	48
185	Characterizing Slight Structural Disorder in Solids by Combined Solid-State NMR and First Principles Calculations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 902-911.	1.1	47
186	Two-Dimensional Statistical Recoupling for the Identification of Perturbed Metabolic Networks from NMR Spectroscopy. <i>Journal of Proteome Research</i> , 2010, 9, 4513-4520.	1.8	47
187	Atomic-Resolution Structural Dynamics in Crystalline Proteins from NMR and Molecular Simulation. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3657-3662.	2.1	47
188	Rapid Structure Determination of Molecular Solids Using Chemical Shifts Directed by Unambiguous Prior Constraints. <i>Journal of the American Chemical Society</i> , 2019, 141, 16624-16634.	6.6	47
189	Dynamics and Disorder in Surfactant-Templated Silicate Layers Studied by Solid-State NMR Dephasing Times and Correlated Line Shapes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9145-9154.	1.5	46
190	NMR Signatures of the Active Sites in Sn <sup>2+</sup> -Zeolite. <i>Angewandte Chemie</i> , 2014, 126, 10343-10347.	1.6	46
191	Resolving the Core and the Surface of CdSe Quantum Dots and Nanoplatelets Using Dynamic Nuclear Polarization Enhanced PASS-PIETA NMR Spectroscopy. <i>ACS Central Science</i> , 2018, 4, 1113-1125.	5.3	46
192	Polarization Transfer over the Water-Protein Interface in Solids. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5851-5854.	7.2	44
193	Protein residue linking in a single spectrum for magic-angle spinning NMR assignment. <i>Journal of Biomolecular NMR</i> , 2015, 62, 253-261.	1.6	44
194	Unravelling the Behavior of Dion-Jacobson Layered Hybrid Perovskites in Humid Environments. <i>ACS Energy Letters</i> , 2021, 6, 337-344.	8.8	44
195	Spectral Editing in Solid-State NMR Using Scalar Multiple Quantum Filters. <i>Journal of Magnetic Resonance</i> , 2001, 151, 40-47.	1.2	43
196	Anisotropic Collective Motion Contributes to Nuclear Spin Relaxation in Crystalline Proteins. <i>Journal of the American Chemical Society</i> , 2010, 132, 1246-1248.	6.6	43
197	Heteronuclear decoupling in NMR of Liquid Crystals using continuous phase modulation. <i>Chemical Physics Letters</i> , 2003, 368, 511-522.	1.2	42
198	Open and Closed Radicals: Local Geometry around Unpaired Electrons Governs Magic-Angle Spinning Dynamic Nuclear Polarization Performance. <i>Journal of the American Chemical Society</i> , 2020, 142, 16587-16599.	6.6	42

#	ARTICLE	IF	CITATIONS
199	Unidirectional Steady State Rates of Central Metabolism Enzymes Measured Simultaneously in a Living Plant Tissue. <i>Journal of Biological Chemistry</i> , 1998, 273, 25053-25061.	1.6	41
200	Broadband inversion for MAS NMR with single-sideband-selective adiabatic pulses. <i>Journal of Chemical Physics</i> , 2011, 134, 024117.	1.2	41
201	Frequency-stepped acquisition in nuclear magnetic resonance spectroscopy under magic angle spinning. <i>Journal of Chemical Physics</i> , 2013, 138, 114201.	1.2	40
202	Silica-surface reorganization during organotin grafting evidenced by $^{119}\text{Sn}$ DNP SENS: a tandem reaction of gem-silanols and strained siloxane bridges. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17822-17827.	1.3	40
203	Dynamics of large nuclear-spin systems from low-order correlations in Liouville space. <i>Chemical Physics Letters</i> , 2009, 477, 377-381.	1.2	39
204	Homonuclear dipolar decoupling with very large scaling factors for high-resolution ultrafast magic angle spinning $^1\text{H}$ solid-state NMR spectroscopy. <i>Chemical Physics Letters</i> , 2010, 498, 214-220.	1.2	39
205	Structure elucidation of a complex $\text{CO}_2$ -based organic framework material by NMR crystallography. <i>Chemical Science</i> , 2016, 7, 4379-4390.	3.7	39
206	Oxygen-17 dynamic nuclear polarisation enhanced solid-state NMR spectroscopy at 18.8 T. <i>Chemical Communications</i> , 2017, 53, 2563-2566.	2.2	39
207	A Bayesian approach to NMR crystal structure determination. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23385-23400.	1.3	39
208	Accurate Measurements of $^{13}\text{C}$ - $^{13}\text{C}$ Couplings in the Rhodopsin Chromophore by Double-Quantum Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 3878-3879.	6.6	38
209	High-resolution and sensitivity through-bond correlations in ultra-fast magic angle spinning (MAS) solid-state NMR. <i>Chemical Science</i> , 2011, 2, 345-348.	3.7	38
210	Lipid bilayer-bound conformation of an integral membrane beta barrel protein by multidimensional MAS NMR. <i>Journal of Biomolecular NMR</i> , 2015, 61, 299-310.	1.6	38
211	Superstructure of a Substituted Zeolitic Imidazolate Metal-Organic Framework Determined by Combining Proton Solid-State NMR Spectroscopy and DFT Calculations. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5971-5976.	7.2	38
212	Observation of Heteronuclear Overhauser Effects Confirms the $^{15}\text{N}$ - $^1\text{H}$ Dipolar Relaxation Mechanism in a Crystalline Protein. <i>Journal of the American Chemical Society</i> , 2006, 128, 12398-12399.	6.6	36
213	Triple-quantum correlation NMR experiments in solids using J-couplings. <i>Journal of Magnetic Resonance</i> , 2006, 179, 49-57.	1.2	36
214	Transverse-Dephasing Optimized Homonuclear J-Decoupling in Solid-State NMR Spectroscopy of Uniformly $^{13}\text{C}$ -Labeled Proteins. <i>Journal of the American Chemical Society</i> , 2009, 131, 10816-10817.	6.6	36
215	The 2D MAS NMR spin-echo experiment: the determination of $^{13}\text{C}$ - $^{13}\text{C}$ J couplings in a solid-state cellulose sample. <i>Journal of Magnetic Resonance</i> , 2004, 171, 43-47.	1.2	35
216	Dynamic nuclear polarisation enhanced $^{14}\text{N}$ overtone MAS NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12890-12899.	1.3	35

#	ARTICLE	IF	CITATIONS
217	Dendritic polarizing agents for DNP SENS. <i>Chemical Science</i> , 2017, 8, 416-422.	3.7	35
218	Scaling analyses for hyperpolarization transfer across a spin-diffusion barrier and into bulk solid media. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1006-1020.	1.3	35
219	Structure determination of an amorphous drug through large-scale NMR predictions. <i>Nature Communications</i> , 2021, 12, 2964.	5.8	35
220	Carbon-13 lineshapes in solid-state NMR of labeled compounds. Effects of coherent CSA dipolar cross-correlation. <i>Journal of Magnetic Resonance</i> , 2003, 162, 90-101.	1.2	34
221	Transverse Dephasing Optimised NMR Spectroscopy in Solids: Natural-Abundance $^{13}\text{C}$ Correlation Spectra. <i>ChemPhysChem</i> , 2004, 5, 869-875.	1.0	34
222	Ab initio simulation of proton spin diffusion. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9172.	1.3	34
223	Sensitivity and resolution of proton detected spectra of a deuterated protein at 40 and 60 kHz magic-angle-spinning. <i>Journal of Biomolecular NMR</i> , 2015, 61, 161-171.	1.6	34
224	Determining the Surface Structure of Silicated Alumina Catalysts via Isotopic Enrichment and Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22977-22984.	1.5	34
225	NMR measurements of scalar-coupling distributions in disordered solids. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 92-103.	1.3	33
226	Bipodal Surface Organometallic Complexes with Surface N-Donor Ligands and Application to the Catalytic Cleavage of C-H and C-C Bonds in n-Butane. <i>Journal of the American Chemical Society</i> , 2013, 135, 17943-17951.	6.6	33
227	Iridium(I)/N-Heterocyclic Carbene Hybrid Materials: Surface Stabilization of Low-Valent Iridium Species for High Catalytic Hydrogenation Performance. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12937-12941.	7.2	33
228	Picometer Resolution Structure of the Coordination Sphere in the Metal-Binding Site in a Metalloprotein by NMR. <i>Journal of the American Chemical Society</i> , 2020, 142, 16757-16765.	6.6	33
229	[5] Selective pulses and their applications to assignment and structure determination in nuclear magnetic resonance. <i>Methods in Enzymology</i> , 1994, 239, 207-246.	0.4	32
230	Simulation of extended periodic systems of nuclear spins. <i>Chemical Physics Letters</i> , 2000, 326, 515-522.	1.2	32
231	Fibrillar vs Crystalline Full-Length $\beta$ 2-Microglobulin Studied by High-Resolution Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 5556-5557.	6.6	32
232	Elucidating an Amorphous Form Stabilization Mechanism for Tenapanor Hydrochloride: Crystal Structure Analysis Using X-ray Diffraction, NMR Crystallography, and Molecular Modeling. <i>Molecular Pharmaceutics</i> , 2018, 15, 1476-1487.	2.3	32
233	Carbon-13 Solid-State NMR Studies on Synthetic Model Compounds of $[\text{4Fe}^{\text{II}}\text{4S}]$ Clusters in the 2+ State. <i>Journal of Physical Chemistry A</i> , 2000, 104, 9990-10000.	1.1	31
234	Solvent suppression in DNP enhanced solid state NMR. <i>Journal of Magnetic Resonance</i> , 2017, 277, 149-153.	1.2	31

#	ARTICLE	IF	CITATIONS
235	Dynamic Nuclear Polarization Magic-Angle Spinning Nuclear Magnetic Resonance Combined with Molecular Dynamics Simulations Permits Detection of Order and Disorder in Viral Assemblies. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5048-5058.	1.2	31
236	Experimental observation of periodic quasi-equilibria in solid-state NMR. <i>Chemical Physics Letters</i> , 1999, 308, 381-389.	1.2	30
237	Resonator with reduced sample heating and increased homogeneity for solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2008, 191, 78-92.	1.2	30
238	Insights into the Structure and Dynamics of Measles Virus Nucleocapsids by <sup>1</sup> H-detected Solid-state NMR. <i>Biophysical Journal</i> , 2014, 107, 941-946.	0.2	30
239	The effect of spin decoupling on line shapes in solid-state nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1996, 104, 2518-2528.	1.2	29
240	Numerical simulation of free evolution in solid-state nuclear magnetic resonance using low-order correlations in Liouville space. <i>Journal of Chemical Physics</i> , 2010, 133, 224501.	1.2	29
241	Assignment and Measurement of Deuterium Quadrupolar Couplings in Liquid Crystals by Deuterium- <sup>13</sup> C Carbon NMR Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3718-3723.	1.2	28
242	Weak and Transient Protein Interactions Determined by Solid-State NMR. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6638-6641.	7.2	28
243	A Factor Two Improvement in High-Field Dynamic Nuclear Polarization from Gd(III) Complexes by Design. <i>Journal of the American Chemical Society</i> , 2019, 141, 8746-8751.	6.6	28
244	Benzylammonium-Mediated Formamidinium Lead Iodide Perovskite Phase Stabilization for Photovoltaics. <i>Advanced Functional Materials</i> , 2021, 31, 2101163.	7.8	28
245	Proton-Proton Constraints in Powdered Solids from <sup>1</sup> H- <sup>1</sup> H and <sup>1</sup> H- <sup>1</sup> H- <sup>13</sup> C Three-Dimensional NMR Chemical Shift Correlation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 5604-5605.	6.6	27
246	A New NMR Method for the Study of Local Mobility in Solids and Application to Hydration of Biopolymers in Plant Cell Walls. <i>Macromolecules</i> , 2002, 35, 5078-5084.	2.2	27
247	Correlation of fast and slow chemical shift spinning sideband patterns under fast magic-angle spinning. <i>Journal of Magnetic Resonance</i> , 2003, 160, 40-46.	1.2	27
248	Motional heterogeneity in single-site silica-supported species revealed by deuterium NMR. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6962.	1.3	27
249	Orthogonal Filtered Recoupled-STOCSY to Extract Metabolic Networks Associated with Minor Perturbations from NMR Spectroscopy. <i>Journal of Proteome Research</i> , 2011, 10, 4342-4348.	1.8	27
250	Molecular Level Characterization of the Structure and Interactions in Peptide-Functionalized Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2016, 22, 16531-16538.	1.7	27
251	High-resolution NMR of hydrogen in organic solids by DNP enhanced natural abundance deuterium spectroscopy. <i>Journal of Magnetic Resonance</i> , 2015, 259, 192-198.	1.2	26
252	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8726-8730.	7.2	26

#	ARTICLE	IF	CITATIONS
253	Unraveling Overlapping Multiplets in Two-Dimensional NMR Correlation Spectra by Selective Inversion of Coupling Partners. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 517-520.	4.4	25
254	Better Characterization of Surface Organometallic Catalysts through Resolution Enhancement in Proton Solid State NMR Spectra. <i>Inorganic Chemistry</i> , 2006, 45, 9587-9592.	1.9	25
255	A well-defined mesoporous amine silica surface via a selective treatment of SBA-15 with ammonia. <i>Chemical Communications</i> , 2012, 48, 3067.	2.2	25
256	Does $\chi^2$ 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. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16650-16661.	1.3	25
257	Structural description of surfaces and interfaces in biominerals by DNP SENS. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 102, 2-11.	1.5	25
258	Hyperpolarized Solution-State NMR Spectroscopy with Optically Polarized Crystals. <i>Journal of the American Chemical Society</i> , 2022, 144, 2511-2519.	6.6	25
259	Long-Range Dipolar Couplings in Liquid Crystals Measured by Three-Dimensional NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 1996, 118, 12224-12225.	6.6	24
260	A master-equation approach to the description of proton-driven spin diffusion from crystal geometry using simulated zero-quantum lineshapes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7363.	1.3	24
261	Methane Reacts with Heteropolyacids Chemisorbed on Silica to Produce Acetic Acid under Soft Conditions. <i>Journal of the American Chemical Society</i> , 2013, 135, 804-810.	6.6	24
262	Tailored Polarizing Hybrid Solids with Nitroxide Radicals Localized in Mesostructured Silica Walls. <i>Helvetica Chimica Acta</i> , 2017, 100, e1700101.	1.0	24
263	Predicting the DNP-SENS efficiency in reactive heterogeneous catalysts from hydrophilicity. <i>Chemical Science</i> , 2018, 9, 4866-4872.	3.7	24
264	Atomistic Origins of the Limited Phase Stability of Cs <sup>+</sup> -Rich FA <sub>x</sub> Cs <sub>(1-x)</sub> Pb <sub>3</sub> Mixtures. <i>Chemistry of Materials</i> , 2020, 32, 2605-2614.	3.2	24
265	Colloidal-ALD-Grown Core/Shell CdSe/CdS Nanoplatelets as Seen by DNP Enhanced PASS-PIETA NMR Spectroscopy. <i>Nano Letters</i> , 2020, 20, 3003-3018.	4.5	24
266	Hydrophobic radicals embedded in neutral surfactants for dynamic nuclear polarization of aqueous environments at 9.4 Tesla. <i>Chemical Communications</i> , 2014, 50, 10198-10201.	2.2	23
267	Hyperpolarized long-lived nuclear spin states in monodeuterated methyl groups. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9755-9759.	1.3	23
268	A Magic Angle Spinning Activated <sup>17</sup> O DNP Raser. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 345-349.	2.1	23
269	Deuterium- <sup>13</sup> C Carbon NMR Correlation Spectroscopy in Oriented Materials. <i>Journal of the American Chemical Society</i> , 1997, 119, 12000-12001.	6.6	22
270	A Silica-Supported Double-Decker Silsesquioxane Provides a Second Skin for the Selective Generation of Bipodal Surface Organometallic Complexes. <i>Organometallics</i> , 2012, 31, 7610-7617.	1.1	22

#	ARTICLE	IF	CITATIONS
271	Core-Shell Structure of Organic Crystalline Nanoparticles Determined by Relayed Dynamic Nuclear Polarization NMR. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8802-8807.	1.1	22
272	High-resolution <sup>1</sup> H NMR of powdered solids by homonuclear dipolar decoupling. <i>Journal of Magnetic Resonance</i> , 2019, 309, 106598.	1.2	22
273	Topology of Pretreated Wood Fibers Using Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30407-30415.	1.5	22
274	Homonuclear Decoupling in <sup>1</sup> H NMR of Solids by Remote Correlation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6235-6238.	7.2	22
275	Selective two-dimensional NMR experiments for topological filtration of fragments of coupling networks. <i>Journal of the American Chemical Society</i> , 1991, 113, 3309-3316.	6.6	21
276	Deuterium to carbon cross-polarization in liquid crystals. <i>Journal of Chemical Physics</i> , 1998, 109, 1873-1884.	1.2	21
277	Combination of DQ and ZQ Coherences for Sensitive Through-Bond NMR Correlation Experiments in Biosolids under Ultra-Fast MAS. <i>ChemPhysChem</i> , 2012, 13, 2405-2411.	1.0	21
278	Efficient and Stable Large Bandgap MAPbBr <sub>3</sub> Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. <i>ACS Energy Letters</i> , 2022, 7, 1112-1119.	8.8	21
279	Double selective inversion in NMR and multiple quantum effects in coupled spin systems. <i>Journal of Magnetic Resonance</i> , 1990, 90, 214-220.	0.5	20
280	Quasi equilibria in solid-state NMR. <i>Chemical Physics Letters</i> , 1998, 293, 110-118.	1.2	20
281	A first-principles description of proton-driven spin diffusion. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 86-89.	1.3	20
282	Improved Phase-Modulated Homonuclear Dipolar Decoupling for Solid-State NMR Spectroscopy from Symmetry Considerations. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5280-5290.	1.1	20
283	<sup>113</sup> Cd Solid-State NMR at 21.1 T Reveals the Local Structure and Passivation Mechanism of Cadmium in Hybrid and All-Inorganic Halide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 2964-2971.	8.8	20
284	Sample Restriction Using Magnetic Field Gradients in High-Resolution Solid-State NMR. <i>Journal of Magnetic Resonance</i> , 2000, 145, 334-339.	1.2	19
285	Sample Restriction Using Radiofrequency Field Selective Pulses in High-Resolution Solid-State NMR. <i>Journal of Magnetic Resonance</i> , 2002, 154, 136-141.	1.2	19
286	Methyl Proton Contacts Obtained Using Heteronuclear Through-Bond Transfers in Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 10625-10632.	6.6	19
287	Broad-Ranging Natural Metabotype Variation Drives Physiological Plasticity in Healthy Control Inbred Rat Strains. <i>Journal of Proteome Research</i> , 2011, 10, 1675-1689.	1.8	19
288	Frontiers in Solid-State NMR Technology. <i>Accounts of Chemical Research</i> , 2013, 46, 1912-1913.	7.6	19

#	ARTICLE	IF	CITATIONS
289	<sup>13</sup> C Detected Through Bond Correlation Experiments for Protein Resonance Assignment by Ultra-Fast MAS Solid-State NMR. <i>ChemPhysChem</i> , 2013, 14, 3131-3137.	1.0	19
290	Nanostructure of Materials Determined by Relayed Paramagnetic Relaxation Enhancement. <i>Journal of the American Chemical Society</i> , 2015, 137, 12482-12485.	6.6	19
291	Paramagnetic Properties of a Crystalline Iron-Sulfur Protein by Magic-Angle Spinning NMR Spectroscopy. <i>Inorganic Chemistry</i> , 2017, 56, 6624-6629.	1.9	19
292	DNP enhanced NMR with flip-back recovery. <i>Journal of Magnetic Resonance</i> , 2018, 288, 69-75.	1.2	19
293	Multifunctional Molecular Modulation for Efficient and Stable Hybrid Perovskite Solar Cells. <i>Chimia</i> , 2019, 73, 317.	0.3	19
294	Enhanced Intersystem Crossing and Transient Electron Spin Polarization in a Photoexcited Pentacene-Triptyl Radical. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6068-6075.	1.1	19
295	Determination of DNA conformational features from selective two-dimensional NMR experiments. <i>Journal of the American Chemical Society</i> , 1993, 115, 7765-7771.	6.6	18
296	Multi-dimensional magnetic resonance imaging in a stray magnetic field. <i>Journal of Magnetic Resonance</i> , 2005, 172, 79-84.	1.2	18
297	Synthesis and reactivity of molybdenum imido alkylidene bis-pyrazolide complexes. <i>Dalton Transactions</i> , 2010, 39, 8547.	1.6	18
298	Macroscopic nuclear spin diffusion constants of rotating polycrystalline solids from first-principles simulation. <i>Journal of Magnetic Resonance</i> , 2015, 254, 48-55.	1.2	18
299	Hyperpolarization of Frozen Hydrocarbon Gases by Dynamic Nuclear Polarization at 1.2 K. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3235-3239.	2.1	18
300	<sup>19</sup> F Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7249-7253.	7.2	18
301	Advanced characterization of regioselectively substituted methylcellulose model compounds by DNP enhanced solid-state NMR spectroscopy. <i>Carbohydrate Polymers</i> , 2021, 262, 117944.	5.1	18
302	Endogenous <sup>17</sup> O Dynamic Nuclear Polarization of Gd-Doped CeO <sub>2</sub> from 100 to 370 K. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18799-18809.	1.5	18
303	Self-refocusing 270° gaussian pulses for slice selection without gradient reversal in magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1989, 10, 273-281.	1.9	17
304	Targeted projection NMR spectroscopy for unambiguous metabolic profiling of complex mixtures. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 727-733.	1.1	17
305	One- and Two-Dimensional High-Resolution NMR from Flat Surfaces. <i>ACS Central Science</i> , 2019, 5, 515-523.	5.3	17
306	Floquet-van Vleck analysis of heteronuclear spin decoupling in solids: The effect of spinning and decoupling sidebands on the spectrum. <i>Solid State Nuclear Magnetic Resonance</i> , 2006, 29, 30-51.	1.5	16

#	ARTICLE	IF	CITATIONS
307	Atomic-level organization of vicinal acid-base pairs through the chemisorption of aniline and derivatives onto mesoporous SBA15. <i>Chemical Science</i> , 2016, 7, 6099-6105.	3.7	16
308	Maximizing nuclear hyperpolarization in pulse cooling under MAS. <i>Journal of Magnetic Resonance</i> , 2019, 300, 142-148.	1.2	16
309	Naphthalenediimide/Formamidinium-Based Low-Dimensional Perovskites. <i>Chemistry of Materials</i> , 2021, 33, 6412-6420.	3.2	16
310	On the orientational dependence of resolution in <sup>1</sup> H solid-state NMR, and its role in MAS, CRAMPS and delayed-acquisition experiments. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, S93-S100.	1.1	15
311	Probing surface site heterogeneity through 1D and INADEQUATE <sup>31</sup> P solid state NMR spectroscopy of silica supported PMe <sub>3</sub> -Au(I) adducts. <i>Chemical Science</i> , 2011, 2, 928.	3.7	15
312	Probing Protein Dynamics Using Multifield Variable Temperature NMR Relaxation and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9697-9702.	1.2	15
313	Multimodal Response to Copper Binding in Superoxide Dismutase Dynamics. <i>Journal of the American Chemical Society</i> , 2020, 142, 19660-19667.	6.6	15
314	Pure Isotropic Proton Solid State NMR. <i>Journal of the American Chemical Society</i> , 2021, 143, 9834-9841.	6.6	15
315	Single crystal nuclear magnetic resonance in spinning powders. <i>Journal of Chemical Physics</i> , 2011, 135, 144201.	1.2	14
316	Quasi-equilibria in reduced Liouville spaces. <i>Journal of Chemical Physics</i> , 2012, 136, 224511.	1.2	14
317	A solid-state NMR method to determine domain sizes in multi-component polymer formulations. <i>Journal of Magnetic Resonance</i> , 2015, 261, 43-48.	1.2	14
318	Weak and Transient Protein Interactions Determined by Solid-State NMR. <i>Angewandte Chemie</i> , 2016, 128, 6750-6753.	1.6	14
319	Iron incorporation in synthetic precipitated calcium silicate hydrates. <i>Cement and Concrete Research</i> , 2021, 142, 106365.	4.6	14
320	<i>De Novo</i> Crystal Structure Determination from Machine Learned Chemical Shifts. <i>Journal of the American Chemical Society</i> , 2022, 144, 7215-7223.	6.6	14
321	The Effect of Imperfect Saturation in Saturation-Recovery T <sub>1</sub> Measurements. <i>Journal of Magnetic Resonance Series A</i> , 1996, 118, 108-112.	1.6	13
322	A highly ordered mesostructured material containing regularly distributed phenols: preparation and characterization at a molecular level through ultra-fast magic angle spinning proton NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4230.	1.3	13
323	A common theory for phase-modulated homonuclear decoupling in solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9121.	1.3	13
324	High-Resolution <sup>1</sup> H Solid-State NMR Spectroscopy Using Windowed LG4 Homonuclear Dipolar Decoupling. <i>Israel Journal of Chemistry</i> , 2014, 54, 136-146.	1.0	13

#	ARTICLE	IF	CITATIONS
325	Line narrowing in <sup>1</sup> H NMR of powdered organic solids with TOP-CT-MAS experiments at ultra-fast MAS. <i>Journal of Magnetic Resonance</i> , 2019, 305, 131-137.	1.2	13
326	Sensitivity Enhancements in Lithium Titanates by Incipient Wetness Impregnation DNP NMR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16524-16528.	1.5	13
327	Bayesian probabilistic assignment of chemical shifts in organic solids. <i>Science Advances</i> , 2021, 7, eabk2341.	4.7	13
328	In-Cell Quantification of Drugs by Magic-Angle Spinning Dynamic Nuclear Polarization NMR. <i>Journal of the American Chemical Society</i> , 2022, 144, 6734-6741.	6.6	13
329	Well-defined mono( <i>i</i> -3-allyl)nickel complex $\hat{\epsilon}$ MONi( <i>i</i> -3-C <sub>3</sub> H <sub>5</sub> ) (M = Si or Al) grafted onto silica or alumina: a molecularly dispersed nickel precursor for syntheses of supported small size nickel nanoparticles. <i>Chemical Communications</i> , 2014, 50, 7716.	2.2	12
330	Colloidal-ALD-Grown Hybrid Shells Nucleate via a Ligand $\hat{\epsilon}$ Precursor Complex. <i>Journal of the American Chemical Society</i> , 2022, 144, 3998-4008.	6.6	12
331	Longitudinal relaxation pathways in scalar-coupled systems. <i>Journal of Magnetic Resonance</i> , 1989, 81, 13-42.	0.5	11
332	Intrinsic Asymmetry in Multidimensional Solid-State NMR Correlation Spectra. <i>Journal of Magnetic Resonance</i> , 1998, 130, 233-237.	1.2	11
333	Chemical exchange at the ferroelectric phase transition of lead germanate revealed by solid state <sup>207</sup> Pb nuclear magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1100-1109.	1.3	11
334	Spatial Distribution of Functional Groups in Cellulose Ethers by DNP-Enhanced Solid-State NMR Spectroscopy. <i>Macromolecules</i> , 2022, 55, 2952-2958.	2.2	11
335	Heteronuclear proton double quantum-carbon single quantum scalar correlation in solids. <i>Journal of Magnetic Resonance</i> , 2014, 245, 31-37.	1.2	10
336	Theory and simulations of homonuclear three-spin systems in rotating solids. <i>Journal of Chemical Physics</i> , 2021, 155, 084201.	1.2	10
337	Multi $\hat{\epsilon}$ Length Scale Structure of 2D/3D Dion $\hat{\epsilon}$ Jacobson Hybrid Perovskites Based on an Aromatic Diammonium Spacer. <i>Small</i> , 2022, 18, e2104287.	5.2	10
338	Design Principles for the Development of Gd(III) Polarizing Agents for Magic Angle Spinning Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11310-11317.	1.5	10
339	Improving resolution in proton solid-state NMR by removing nitrogen-14 residual dipolar broadening. <i>Chemical Physics Letters</i> , 2008, 458, 391-395.	1.2	9
340	Advances in Magnetic Resonance: From Stem Cells to Catalytic Surfaces. <i>Journal of the American Chemical Society</i> , 2013, 135, 8089-8091.	6.6	9
341	Two-step immobilization of metronidazole prodrug on TEMPO cellulose nanofibrils through thiol-yne click chemistry for in situ controlled release. <i>Carbohydrate Polymers</i> , 2021, 262, 117952.	5.1	9
342	NMR studies of an oligoproline-containing peptide analog that binds specifically to the H-2Kd histocompatibility molecule. <i>Biochemistry</i> , 1991, 30, 9429-9434.	1.2	8

#	ARTICLE	IF	CITATIONS
343	A scaling factor theorem for homonuclear dipolar decoupling in solid-state NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2011, 212, 11-16.	1.2	8
344	Fast remote correlation experiments for $^1\text{H}$ homonuclear decoupling in solids. <i>Journal of Magnetic Resonance</i> , 2020, 321, 106856.	1.2	8
345	Volume-selective NMR spectroscopy with self-refocusing pulses. <i>Journal of Magnetic Resonance</i> , 1990, 87, 1-17.	0.5	7
346	Methods for reconstructing phase sensitive slice profiles in magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 178-183.	1.9	7
347	The role of $^{15}\text{N}$ CSA and CSA/dipole cross-correlation in $^{15}\text{N}$ relaxation in solid proteins. <i>Journal of Magnetic Resonance</i> , 2007, 186, 26-33.	1.2	7
348	$^1\text{H}$ Detected Relayed Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7564-7570.	1.5	7
349	Entflechtung $\frac{1}{4}$ berlagernder Multipletts in zweidimensionalen NMR-Korrelationsspektren durch selektive Inversion der Spins der Kopplungspartner. <i>Angewandte Chemie</i> , 1990, 102, 576-579.	1.6	6
350	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. <i>Angewandte Chemie</i> , 2016, 128, 4821-4825.	1.6	6
351	Hyperpolarization transfer pathways in inorganic materials. <i>Journal of Magnetic Resonance</i> , 2021, 323, 106888.	1.2	6
352	Similarities and Differences among Protein Dynamics Studied by Variable Temperature Nuclear Magnetic Resonance Relaxation. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2212-2221.	1.2	6
353	Quantification of magic angle spinning dynamic nuclear polarization NMR spectra. <i>Journal of Magnetic Resonance</i> , 2021, 329, 107030.	1.2	6
354	Refocused linewidths less than $10\text{ }\mu\text{Hz}$ in $^1\text{H}$ solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2018, 293, 41-46.	1.2	5
355	Lead-Oxygen Bond Length Distributions of the Relaxor Ferroelectric $0.67\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3\text{-}0.33\text{PbTiO}_3$ from $^{207}\text{Pb}$ Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15744-15750.	1.5	5
356	Segmental mobility in poly(isoprene) rubber studied by deuterium-carbon NMR correlation spectroscopy. <i>Polymer Bulletin</i> , 2001, 46, 183-190.	1.7	4
357	Metabolic expressivity of human genetic variants: NMR metabotyping of MEN1 pathogenic mutants. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 93, 118-124.	1.4	4
358	Improving Sensitivity of Solid-state NMR Spectroscopy by Rational Design of Polarizing Agents for Dynamic Nuclear Polarization. <i>Chimia</i> , 2017, 71, 190-194.	0.3	4
359	Measurement of Proton Spin Diffusivity in Hydrated Cementitious Solids. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5064-5069.	2.1	4
360	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. <i>Joule</i> , 2020, 4, 507-508.	11.7	4

#	ARTICLE	IF	CITATIONS
361	On the use of a slice-selective 270Å° self-refocusing Gaussian pulse for magnetic resonance imaging: Comments on the note by D. M. Doddrell et al.. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 461-463.	1.9	3
362	Structural and DNA binding properties of mycobacterial integration host factor mIHF. <i>Journal of Structural Biology</i> , 2020, 209, 107434.	1.3	3
363	Homonuclear Decoupling in 1 Hâ€¦NMR of Solids by Remote Correlation. <i>Angewandte Chemie</i> , 2020, 132, 6294-6297.	1.6	3
364	High Sensitivity Detection of a Solubility Limiting Surface Transformation of Drug Particles by DNP SENS. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 2452-2456.	1.6	3
365	Improved Sensitivity in Selective NMR Correlation Spectroscopy and Applications to the Determination of Scalar Couplings in Peptides and Proteins. <i>Journal of the American Chemical Society</i> , 1996, 118, 9320-9325.	6.6	2
366	Homonuclear Decoupling of <sup>1</sup> H Dipolar Interactions in Solids by means of Heteronuclear Recoupling. <i>Israel Journal of Chemistry</i> , 2014, 54, 154-162.	1.0	2
367	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. <i>Angewandte Chemie</i> , 2017, 129, 8852-8856.	1.6	2
368	19 F Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. <i>Angewandte Chemie</i> , 2019, 131, 7327-7331.	1.6	2
369	Molecular Insight Into Surface Organometallic Chemistry Through the Combined Use of 2D HETCOR Solid-State NMR Spectroscopy and Silsesquioxane Analogues. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 16-16.	7.2	1
370	The Atomic-Level Structure of Cementitious Calcium Aluminate Silicate Hydrate Determined by NMR. <i>Chimia</i> , 2021, 75, 272-275.	0.3	1
371	Editorial. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, S1-S1.	1.1	0
372	Guanineâ€¦Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie</i> , 2020, 132, 4721-4727.	1.6	0
373	Gaussian Pulse Cascades and Selective Two-Dimensional NMR. , 1990, , 449-450.		0
374	The Role of Selective Two-Dimensional NMR Correlation Methods in Supplementing Computer-Supported Multiplet Analysis by MARCO POLO. , 1991, , 151-162.		0