

Lyndon Emsley

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7832035/lyndon-emsley-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

382 papers	22,263 citations	83 h-index	127 g-index
395 ext. papers	25,681 ext. citations	9.7 avg, IF	6.98 L-index

#	Paper	IF	Citations
382	Pseudo-halide anion engineering for FAPbI perovskite solar cells. <i>Nature</i> , 2021 , 592, 381-385	50.4	814
381	Dynamic nuclear polarization surface enhanced NMR spectroscopy. <i>Accounts of Chemical Research</i> , 2013 , 46, 1942-51	24.3	439
380	Surface enhanced NMR spectroscopy by dynamic nuclear polarization. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15459-61	16.4	424
379	Through-Bond Carbon-Carbon Connectivities in Disordered Solids by NMR. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10987-10993	16.4	365
378	Europium-Doped CsPbI ₂ Br for Stable and Highly Efficient Inorganic Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 205-214	27.8	290
377	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, 12790-7	16.4	284
376	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	2.5	283
375	Phase Segregation in Cs-, Rb- and K-Doped Mixed-Cation (MA)(FA)PbI Hybrid Perovskites from Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14173-14180	16.4	260
374	Homonuclear dipolar decoupling in solid-state NMR using continuous phase modulation. <i>Chemical Physics Letters</i> , 2000 , 319, 253-260	2.5	257
373	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI perovskite solar cells. <i>Science</i> , 2020 , 370,	33.3	257
372	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, 2104-7	16.4	233
371	Dynamic nuclear polarization NMR spectroscopy of microcrystalline solids. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16899-908	16.4	206
370	Rapid proton-detected NMR assignment for proteins with fast magic angle spinning. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12489-97	16.4	205
369	Multifunctional molecular modulators for perovskite solar cells with over 20% efficiency and high operational stability. <i>Nature Communications</i> , 2018 , 9, 4482	17.4	189
368	Carbon-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	16.4	187
367	Sensitivity enhancement of the central transition NMR signal of quadrupolar nuclei under magic-angle spinning. <i>Chemical Physics Letters</i> , 2000 , 327, 85-90	2.5	184
366	Formation of Stable Mixed Guanidinium-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	16.4	183

365	Determination of Through-Bond Carbon-Carbon Connectivities in Solid-State NMR Using the INADEQUATE Experiment. <i>Journal of the American Chemical Society</i> , 1997 , 119, 7867-7868	16.4	183
364	Characterization of different water pools in solid-state NMR protein samples. <i>Journal of Biomolecular NMR</i> , 2009 , 45, 319-27	3	181
363	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, 9187-92	11.5	179
362	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 3008	17.4	178
361	Powder crystallography by combined crystal structure prediction and high-resolution ¹ H solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2564-6	16.4	175
360	Protein dynamics. Direct observation of hierarchical protein dynamics. <i>Science</i> , 2015 , 348, 578-81	33.3	173
359	Direct spectral optimisation of proton-proton homonuclear dipolar decoupling in solid-state NMR. <i>Chemical Physics Letters</i> , 2004 , 398, 532-538	2.5	171
358	A slowly relaxing rigid biradical for efficient dynamic nuclear polarization surface-enhanced NMR spectroscopy: expeditious characterization of functional group manipulation in hybrid materials. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2284-91	16.4	169
357	Powder NMR crystallography of thymol. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2610-21	3.6	164
356	Experimental aspects of proton NMR spectroscopy in solids using phase-modulated homonuclear dipolar decoupling. <i>Journal of Magnetic Resonance</i> , 2003 , 163, 105-13	3	161
355	Cation Dynamics in Mixed-Cation (MA)(FA)PbI Hybrid Perovskites from Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10055-10061	16.4	160
354	The structure and binding mode of citrate in the stabilization of gold nanoparticles. <i>Nature Chemistry</i> , 2017 , 9, 890-895	17.6	158
353	Molecular structure determination in powders by NMR crystallography from proton spin diffusion. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9555-60	16.4	154
352	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, 11095-100	11.5	149
351	Powder crystallography by proton solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9140-6	16.4	147
350	Dynamic nuclear polarization enhanced solid-state NMR spectroscopy of functionalized metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 123-7	16.4	145
349	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, 11697-701	16.4	144
348	De novo 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, 17501-7	16.4	142

- 347 Complete assignment of heteronuclear protein resonances by protonless NMR spectroscopy. *Angewandte Chemie - International Edition*, **2005**, 44, 3089-92 16.4 140
- 346 Surface versus molecular siloxy ligands in well-defined olefin metathesis catalysts: $[(\text{RO})_3\text{SiO}]\text{Mo}(=\text{NAr})(=\text{CHtBu})(\text{CH}_2\text{tBu})$. *Angewandte Chemie - International Edition*, **2006**, 45, 1216-20 16.4 136
- 345 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. *Physical Chemistry Chemical Physics*, **2006**, 8, 137-43 3.6 136
- 344 Powder crystallography of pharmaceutical materials by combined crystal structure prediction and solid-state ^1H NMR spectroscopy. *Physical Chemistry Chemical Physics*, **2013**, 15, 8069-80 3.6 134
- 343 NMR signatures of the active sites in Sn-zeolite. *Angewandte Chemie - International Edition*, **2014**, 53, 10179-83 16.4 132
- 342 Non-aqueous solvents for DNP surface enhanced NMR spectroscopy. *Chemical Communications*, **2012**, 48, 654-6 5.8 129
- 341 One hundred fold overall sensitivity enhancements for Silicon-29 NMR spectroscopy of surfaces by dynamic nuclear polarization with CPMG acquisition. *Chemical Science*, **2012**, 3, 108-115 9.4 122
- 340 Dynamic nuclear polarization enhanced NMR spectroscopy for pharmaceutical formulations. *Journal of the American Chemical Society*, **2014**, 136, 2324-34 16.4 118
- 339 Proton to carbon-13 INEPT in solid-state NMR spectroscopy. *Journal of the American Chemical Society*, **2005**, 127, 17296-302 16.4 118
- 338 Detailed structural investigation of the grafting of $[\text{Ta}(=\text{CHtBu})(\text{CH}_2\text{tBu})_3]$ and $[\text{Cp}^*\text{TaMe}_4]$ on silica partially dehydroxylated at 700 degrees C and the activity of the grafted complexes toward alkane metathesis. *Journal of the American Chemical Society*, **2004**, 126, 13391-9 16.4 118
- 337 Addition of adamantylammonium iodide to hole transport layers enables highly efficient and electroluminescent perovskite solar cells. *Energy and Environmental Science*, **2018**, 11, 3310-3320 35.4 118
- 336 Rational design of dinitroxide biradicals for efficient cross-effect dynamic nuclear polarization. *Chemical Science*, **2016**, 7, 550-558 9.4 117
- 335 Sn surface-enriched Pt₅₅Sn bimetallic nanoparticles as a selective and stable catalyst for propane dehydrogenation. *Journal of Catalysis*, **2014**, 320, 52-62 7.3 116
- 334 NMR crystallography of campho[2,3-c]pyrazole (ZN-6): combining high-resolution ^1H - ^{13}C solid-state MAS NMR spectroscopy and GIPAW chemical-shift calculations. *Journal of Physical Chemistry A*, **2010**, 114, 10435-42 2.8 116
- 333 The Atomic-Level Structure of Cementitious Calcium Silicate Hydrate. *Journal of Physical Chemistry C*, **2017**, 121, 17188-17196 3.8 114
- 332 Dynamic nuclear polarization of quadrupolar nuclei using cross polarization from protons: surface-enhanced aluminium-27 NMR. *Chemical Communications*, **2012**, 48, 1988-90 5.8 114
- 331 Enhanced Resolution and Coherence Lifetimes in the Solid-State NMR Spectroscopy of Perdeuterated Proteins under Ultrafast Magic-Angle Spinning. *Journal of Physical Chemistry Letters*, **2011**, 2, 2205-2211 6.4 112
- 330 Chemical shifts in molecular solids by machine learning. *Nature Communications*, **2018**, 9, 4501 17.4 110

329	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, 12541-50	16.4	108
328	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, 8932-3	16.4	107
327	Phase Segregation in Potassium-Doped Lead Halide Perovskites from K Solid-State NMR at 21.1 T. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7232-7238	16.4	106
326	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, 10710-9	16.4	104
325	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, 14667-9	16.4	104
324	Probing proton-proton proximities in the solid state: high-resolution two-dimensional ^1H - ^1H double-quantum CRAMPS NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13230-1	16.4	104
323	Ultrafast MAS solid-state NMR permits extensive ^{13}C and ^1H detection in paramagnetic metalloproteins. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5558-9	16.4	103
322	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, 19808-12	11.5	102
321	High-resolution NMR correlation spectra of disordered solids. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4376-80	16.4	101
320	Perhydrocarbyl ReVII complexes: comparison of molecular and surface complexes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 492-504	16.4	101
319	Cooperative Effect of Monopodal Silica-Supported Niobium Complex Pairs Enhancing Catalytic Cyclic Carbonate Production. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7728-39	16.4	100
318	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, 17178-85	16.4	100
317	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, 18190-201	16.4	100
316	Fast adiabatic pulses for solid-state NMR of paramagnetic systems. <i>Chemical Physics Letters</i> , 2007 , 435, 157-162	2.5	99
315	Solid-state NMR of a paramagnetic DIAD-Fell catalyst: sensitivity, resolution enhancement, and structure-based assignments. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13545-52	16.4	98
314	NMR crystallography of oxybuprocaine hydrochloride, Modification II degrees. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 360-8	3.6	96
313	NMR studies of the surface structure and dynamics of semiconductor nanocrystals. <i>Chemical Physics Letters</i> , 1992 , 198, 431-436	2.5	96
312	Fast acquisition of multi-dimensional spectra in solid-state NMR enabled by ultra-fast MAS. <i>Journal of Magnetic Resonance</i> , 2009 , 196, 133-41	3	94

- 311 The reliability of the determination of tensor parameters by solid-state nuclear magnetic resonance. *Journal of Chemical Physics*, **1997**, 107, 4808-4816 3.9 93
- 310 Through-bond heteronuclear single-quantum correlation spectroscopy in solid-state NMR, and comparison to other through-bond and through-space experiments. *Journal of Magnetic Resonance*, **2001**, 148, 449-54 3 93
- 309 Solid-state NMR spectroscopy of a paramagnetic protein: assignment and study of human dimeric oxidized CuII-ZnII superoxide dismutase (SOD). *Angewandte Chemie - International Edition*, **2007**, 46, 1079-82 16.4 92
- 308 Backbone assignment of fully protonated solid proteins by ¹H detection and ultrafast magic-angle-spinning NMR spectroscopy. *Angewandte Chemie - International Edition*, **2012**, 51, 10756-9 16.4 91
- 307 High resolution solid state NMR spectroscopy in surface organometallic chemistry: access to molecular understanding of active sites of well-defined heterogeneous catalysts. *Chemical Society Reviews*, **2008**, 37, 518-26 58.5 88
- 306 Dynamics of silica-supported catalysts determined by combining solid-state NMR spectroscopy and DFT calculations. *Journal of the American Chemical Society*, **2008**, 130, 5886-900 16.4 88
- 305 Site-specific measurement of slow motions in proteins. *Journal of the American Chemical Society*, **2011**, 133, 16762-5 16.4 87
- 304 Structure of Colloidal Quantum Dots from Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. *Journal of the American Chemical Society*, **2015**, 137, 13964-71 16.4 86
- 303 Evidence for metal-surface interactions and their role in stabilizing well-defined immobilized Ru-NHC alkene metathesis catalysts. *Journal of the American Chemical Society*, **2013**, 135, 3193-9 16.4 86
- 302 Amplifying dynamic nuclear polarization of frozen solutions by incorporating dielectric particles. *Journal of the American Chemical Society*, **2014**, 136, 15711-8 16.4 85
- 301 Correlating Synthetic Methods, Morphology, Atomic-Level Structure, and Catalytic Activity of Sn-□ Catalysts. *ACS Catalysis*, **2016**, 6, 4047-4063 13.1 85
- 300 Site-specific backbone dynamics from a crystalline protein by solid-state NMR spectroscopy. *Journal of the American Chemical Society*, **2004**, 126, 11422-3 16.4 84
- 299 Direct observation of reaction intermediates for a well defined heterogeneous alkene metathesis catalyst. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12123-7 11.5 83
- 298 Principles of spin-echo modulation by J-couplings in magic-angle-spinning solid-state NMR. *ChemPhysChem*, **2004**, 5, 815-33 3.2 82
- 297 Structure and Mechanism of the Influenza A M218-60 Dimer of Dimers. *Journal of the American Chemical Society*, **2015**, 137, 14877-86 16.4 81
- 296 Hybrid polarizing solids for pure hyperpolarized liquids through dissolution dynamic nuclear polarization. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 14693-7 11.5 81
- 295 Unraveling the core-shell structure of ligand-capped Sn/SnOx nanoparticles by surface-enhanced nuclear magnetic resonance, Mössbauer, and X-ray absorption spectroscopies. *ACS Nano*, **2014**, 8, 2639-48 16.7 81
- 294 Statistical recoupling prior to significance testing in nuclear magnetic resonance based metabonomics. *Analytical Chemistry*, **2009**, 81, 6242-51 7.8 80

293	Carbon-13 Spectral Editing in Solid-State NMR Using Heteronuclear Scalar Couplings. <i>Journal of the American Chemical Society</i> , 1998 , 120, 7095-7100	16.4	80
292	¹²⁹ Xe NMR Spectroscopy of Deuterium-Labeled Cryptophane-A Xenon Complexes: Investigation of Host-Guest Complexation Dynamics. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1171-1174	16.4	79
291	Complete (1)H resonance assignment of beta-maltose from (1)H-(1)H DQ-SQ CRAMPS and (1)H (DQ-DUMBO)-(13)C SQ refocused INEPT 2D solid-state NMR spectra and first principles GIPAW calculations. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 6970-83	3.6	76
290	Enhanced sensitivity in high-resolution 1H solid-state NMR spectroscopy with DUMBO dipolar decoupling under ultra-fast MAS. <i>Chemical Physics Letters</i> , 2009 , 469, 336-341	2.5	76
289	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		75
288	Assigning powders to crystal structures by high-resolution (1)H-(1)H double quantum and (1)H-(13)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, 3418-22	3.6	75
287	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	3.9	75
286	The direct detection of a hydrogen bond in the solid state by NMR through the observation of a hydrogen-bond mediated (15)N [bond] (15)N J coupling. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1152-3	16.4	74
285	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, 176-86	16.4	73
284	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19980-19991	16.4	72
283	Magic angle spinning NMR of paramagnetic proteins. <i>Accounts of Chemical Research</i> , 2013 , 46, 2108-16	24.3	72
282	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	21.8	71
281	Influences of Dilute Organic Adsorbates on the Hydration of Low-Surface-Area Silicates. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8096-112	16.4	71
280	WMe6 tamed by silica: ?Si-O-WMe5 as an efficient, well-defined species for alkane metathesis, leading to the observation of a supported W-methyl/methylidyne species. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1054-61	16.4	71
279	Measurement of site-specific ¹³ C spin-lattice relaxation in a crystalline protein. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8252-4	16.4	71
278	Computation and NMR crystallography of terbutaline sulfate. <i>Magnetic Resonance in Chemistry</i> , 2010 , 48 Suppl 1, S103-12	2.1	71
277	One-step mechanochemical incorporation of an insoluble cesium additive for high performance planar heterojunction solar cells. <i>Nano Energy</i> , 2018 , 49, 523-528	17.1	70
276	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, 14558-61	16.4	70

275	Structure of outer membrane protein G in lipid bilayers. <i>Nature Communications</i> , 2017 , 8, 2073	17.4	69
274	Phase shifts induced by transient Bloch-Siegert effects in NMR. <i>Chemical Physics Letters</i> , 1990 , 168, 297-303	3.6	69
273	Cl dynamic nuclear polarization solid-state NMR of active pharmaceutical ingredients. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25893-25904	3.6	69
272	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, 19068-70	16.4	68
271	Two-dimensional spin-exchange solid-state NMR studies of ¹³ C-enriched wood. <i>Solid State Nuclear Magnetic Resonance</i> , 1997 , 8, 25-32	3.1	68
270	Band-selective ¹ H- ¹³ C cross-polarization in fast magic angle spinning solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17216-7	16.4	68
269	Well-Defined Surface Tungstenocarbene Complexes through the Reaction of [W(=CHtBu)(CH ₂ tBu) ₃] with Silica. <i>Organometallics</i> , 2005 , 24, 4274-4279	3.8	68
268	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	3	67
267	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, 4535-8	16.4	67
266	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	16.4	67
265	Transportable hyperpolarized metabolites. <i>Nature Communications</i> , 2017 , 8, 13975	17.4	66
264	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	3.4	66
263	Improved resolution in proton NMR spectroscopy of powdered solids. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5747-52	16.4	66
262	Polymorphs of Theophylline Characterized by DNP Enhanced Solid-State NMR. <i>Molecular Pharmaceutics</i> , 2015 , 12, 4146-53	5.6	65
261	Ba-induced phase segregation and band gap reduction in mixed-halide inorganic perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 4686	17.4	65
260	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	3.9	65
259	Chemical shift correlations in disordered solids. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4466-4476	16.4	65
258	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, 1561-73	4.8	65

257	The accuracy of distance measurements in solid-state NMR. <i>Journal of Magnetic Resonance</i> , 1999 , 139, 46-59	3	64
256	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	16.4	64
255	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	16.4	63
254	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.O. gratefully	16.4	63
253	Solution-State NMR Studies of the Surface Structure and Dynamics of Semiconductor Nanocrystals. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 10117-10128 <i>International Edition</i> , 2001 , 40, 4493-4496	3.4	62
252	Solid-state NMR spectroscopy. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		62
251	Three-Dimensional Structure Determination of Surface Sites. <i>Journal of the American Chemical Society</i> , 2017 , 139, 849-855	16.4	61
250	Measuring Nano- to Microstructures from Relayed Dynamic Nuclear Polarization NMR. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15993-16005	3.8	61
249	Spin-state selection in solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2003 , 164, 187-95	3	61
248	Dynamic nuclear polarization at 40 kHz magic angle spinning. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10616-22	3.6	60
247	Improved heteronuclear decoupling schemes for solid-state magic angle spinning NMR by direct spectral optimization. <i>Chemical Physics Letters</i> , 2003 , 376, 259-267	2.5	60
246	Resolution enhancement in multidimensional solid-state NMR spectroscopy of proteins using spin-state selection. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11816-7	16.4	60
245	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, 8246-55	16.4	59
244	Crystal-structure determination of powdered paramagnetic lanthanide complexes by proton NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3082-6	16.4	58
243	Through-bond phosphorus-phosphorus connectivities in crystalline and disordered phosphates by solid-state NMR. <i>Chemical Communications</i> , 2002 , 1702-3	5.8	58
242	Characterization of surface organometallic complexes using high resolution 2D solid-state NMR spectroscopy. Application to the full characterization of a silica supported metal carbyne: (triple bond)SiO-Mo((triple bond)C-Bu-t)(CH(2)-Bu-t)(2). <i>Journal of the American Chemical Society</i> , 2001 , 123, 3820-1	16.4	58
241	A well-defined Pd hybrid material for the Z-selective semihydrogenation of alkynes characterized at the molecular level by DNP SENS. <i>Chemistry - A European Journal</i> , 2013 , 19, 12234-8	4.8	55
240	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. <i>Joule</i> , 2020 , 4, 222-234	27.8	55

239	Improved dynamic nuclear polarization surface-enhanced NMR spectroscopy through controlled incorporation of deuterated functional groups. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12222-5	16.4	54
238	Absence of Curie relaxation in paramagnetic solids yields long 1H coherence lifetimes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14118-9	16.4	53
237	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, 13270-4	3.6	51
236	Alkane metathesis with the tantalum methylidene [(η -SiO)Ta(η -CH ₂)Me ₂]/[(η -SiO) ₂ Ta(η -CH ₂)Me] generated from well-defined surface organometallic complex [(η -SiO)Ta(V)Me ₄]. <i>Journal of the American Chemical Society</i> , 2015 , 137, 588-91	16.4	51
235	Well-defined silica-supported Mo-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, 5083-9	4.8	51
234	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	9.4	50
233	Solid-state NMR characterization of hydration effects on polymer mobility in onion cell-wall material. <i>Carbohydrate Research</i> , 1999 , 322, 102-112	2.9	50
232	Rapid measurement of pseudocontact shifts in metalloproteins by proton-detected solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14730-3	16.4	48
231	Metabolic profiling strategy of <i>Caenorhabditis elegans</i> by whole-organism nuclear magnetic resonance. <i>Journal of Proteome Research</i> , 2009 , 8, 2542-50	5.6	48
230	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	3	48
229	Selective NMR measurements of homonuclear scalar couplings in isotopically enriched solids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16982-91	3.4	48
228	Characterization of heteronuclear decoupling through proton spin dynamics in solid-state nuclear magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2004 , 121, 3165-80	3.9	48
227	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		48
226	Doping and phase segregation in Mn ²⁺ - and Co ²⁺ -doped lead halide perovskites from ¹³³ Cs and ¹ H NMR relaxation enhancement. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2326-2333	13	48
225	DNP-enhanced solid-state NMR spectroscopy of active pharmaceutical ingredients. <i>Magnetic Resonance in Chemistry</i> , 2018 , 56, 583-609	2.1	48
224	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	16.4	46
223	Characterizing slight structural disorder in solids by combined solid-state NMR and first principles calculations. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 902-11	2.8	46
222	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, 15459-66	16.4	45

221	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	3	45
220	Characterising local environments in high energy density Li-ion battery cathodes: a combined NMR and first principles study of LiFeCo _{1-x} PO ₄ . <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11948-11957	13	44
219	Reactive surface organometallic complexes observed using dynamic nuclear polarization surface enhanced NMR spectroscopy. <i>Chemical Science</i> , 2017 , 8, 284-290	9.4	44
218	Superadiabaticity in magnetic resonance. <i>Journal of Chemical Physics</i> , 2008 , 129, 204110	3.9	44
217	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	3.8	44
216	The Atomic-Level Structure of Cementitious Calcium Aluminate Silicate Hydrate. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11060-11071	16.4	43
215	Local Structure and Dynamics in Methylammonium, Formamidinium, and Cesium Tin(II) Mixed-Halide Perovskites from Sn Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7813-7826	16.4	43
214	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4743-7	16.4	43
213	Out-and-back ¹³ C- ¹³ 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, 379-86	3	43
212	Supramolecular Modulation of Hybrid Perovskite Solar Cells via Bifunctional Halogen Bonding Revealed by Two-Dimensional F Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1645-1654	16.4	43
211	Atomic-Resolution Structural Dynamics in Crystalline Proteins from NMR and Molecular Simulation. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3657-62	6.4	41
210	Heteronuclear decoupling in NMR of Liquid Crystals using continuous phase modulation. <i>Chemical Physics Letters</i> , 2003 , 368, 511-522	2.5	41
209	Atomistic description of thiostannate-capped CdSe nanocrystals: retention of four-coordinate SnS ₄ motif and preservation of Cd-rich stoichiometry. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1862-74	16.4	40
208	Two-dimensional statistical recoupling for the identification of perturbed metabolic networks from NMR spectroscopy. <i>Journal of Proteome Research</i> , 2010 , 9, 4513-20	5.6	40
207	Spectral editing in solid-state NMR using scalar multiple quantum filters. <i>Journal of Magnetic Resonance</i> , 2001 , 151, 40-7	3	40
206	Unidirectional steady state rates of central metabolism enzymes measured simultaneously in a living plant tissue. <i>Journal of Biological Chemistry</i> , 1998 , 273, 25053-61	5.4	40
205	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4691-4697	16.4	40
204	Bulk Nuclear Hyperpolarization of Inorganic Solids by Relay from the Surface. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7946-7951	16.4	40

203	Polarization transfer over the water-protein interface in solids. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5851-4	16.4	39
202	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	9.6	39
201	Positional Variance in NMR Crystallography. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2573-2576	16.4	38
200	Anisotropic collective motion contributes to nuclear spin relaxation in crystalline proteins. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1246-8	16.4	38
199	Surface versus Molecular Siloxy Ligands in Well-Defined Olefin Metathesis Catalysts: [(RO) ₃ SiO]Mo(η ⁵ -NAr)(η ⁵ -CH ₃ tBu)(CH ₂ tBu). <i>Angewandte Chemie</i> , 2006 , 118, 1238-1242	3.6	38
198	Accurate measurements of ¹³ C- ¹³ C J-couplings in the rhodopsin chromophore by double-quantum solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3878-9	16.4	38
197	Dynamic Nuclear Polarization Enhanced Solid-State NMR Spectroscopy of Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2012 , 124, 127-131	3.6	37
196	Dynamic Nuclear Polarization Efficiency Increased by Very Fast Magic Angle Spinning. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10609-10612	16.4	37
195	Broadband inversion for MAS NMR with single-sideband-selective adiabatic pulses. <i>Journal of Chemical Physics</i> , 2011 , 134, 024117	3.9	37
194	Frequency-stepped acquisition in nuclear magnetic resonance spectroscopy under magic angle spinning. <i>Journal of Chemical Physics</i> , 2013 , 138, 114201	3.9	36
193	NMR Signatures of the Active Sites in Sn- γ -Zeolite. <i>Angewandte Chemie</i> , 2014 , 126, 10343-10347	3.6	36
192	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	9.4	36
191	Dynamics of large nuclear-spin systems from low-order correlations in Liouville space. <i>Chemical Physics Letters</i> , 2009 , 477, 377-381	2.5	36
190	Triple-quantum correlation NMR experiments in solids using J-couplings. <i>Journal of Magnetic Resonance</i> , 2006 , 179, 49-57	3	36
189	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	9.4	36
188	Oxygen-17 dynamic nuclear polarisation enhanced solid-state NMR spectroscopy at 18.8 T. <i>Chemical Communications</i> , 2017 , 53, 2563-2566	5.8	35
187	Conformational dynamics in crystals reveal the molecular bases for D76N beta-2 microglobulin aggregation propensity. <i>Nature Communications</i> , 2018 , 9, 1658	17.4	35
186	Homonuclear dipolar decoupling with very large scaling factors for high-resolution ultrafast magic angle spinning ¹ H solid-state NMR spectroscopy. <i>Chemical Physics Letters</i> , 2010 , 498, 214-220	2.5	35

185	The 2D MAS NMR spin-echo experiment: the determination of ^{13}C - ^{13}C J couplings in a solid-state cellulose sample. <i>Journal of Magnetic Resonance</i> , 2004 , 171, 43-7	3	35
184	Dynamic nuclear polarisation enhanced (14)N overtone MAS NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 12890-9	3.6	34
183	Structure elucidation of a complex CO-based organic framework material by NMR crystallography. <i>Chemical Science</i> , 2016 , 7, 4379-4390	9.4	34
182	Protein residue linking in a single spectrum for magic-angle spinning NMR assignment. <i>Journal of Biomolecular NMR</i> , 2015 , 62, 253-61	3	33
181	Silica-surface reorganization during organotin grafting evidenced by ^{119}Sn DNP SENS: a tandem reaction of gem-silanols and strained siloxane bridges. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17822-7	3.6	33
180	NMR measurements of scalar-coupling distributions in disordered solids. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 92-103	3.6	33
179	Transverse dephasing optimised NMR spectroscopy in solids: natural-abundance ^{13}C correlation spectra. <i>ChemPhysChem</i> , 2004 , 5, 869-75	3.2	33
178	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	3	33
177	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, 161-71	3	32
176	Observation of heteronuclear overhauser effects confirms the ^{15}N - ^1H dipolar relaxation mechanism in a crystalline protein. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12398-9	16.4	32
175	Complete Assignment of Heteronuclear Protein Resonances by Protonless NMR Spectroscopy. <i>Angewandte Chemie</i> , 2005 , 117, 3149-3152	3.6	32
174	Simulation of extended periodic systems of nuclear spins. <i>Chemical Physics Letters</i> , 2000 , 326, 515-522	2.5	32
173	Nucleobase pairing and photodimerization in a biologically derived metal-organic framework nanoreactor. <i>Nature Communications</i> , 2019 , 10, 1612	17.4	31
172	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, 5971-6	16.4	31
171	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, 17943-51	16.4	31
170	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	3	31
169	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, 5556-7	16.4	31
168	Transverse-dephasing optimized homonuclear j-decoupling in solid-state NMR spectroscopy of uniformly ^{13}C -labeled proteins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10816-7	16.4	31

167	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	16.8	31
166	Fast Resonance Assignment and Fold Determination of Human Superoxide Dismutase by High-Resolution Proton-Detected Solid-State MAS NMR Spectroscopy. <i>Angewandte Chemie</i> , 2011 , 123, 11901-11905	3.6	30
165	Dynamic Nuclear Polarization Enhancement of 200 at 21.15 T Enabled by 65 kHz Magic Angle Spinning. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8386-8391	6.4	30
164	Carbon-13 Solid-State NMR Studies on Synthetic Model Compounds of [4Fe4S] Clusters in the 2+ State. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 9990-10000	2.8	29
163	Insights into the structure and dynamics of measles virus nucleocapsids by 1H-detected solid-state NMR. <i>Biophysical Journal</i> , 2014 , 107, 941-6	2.9	28
162	Ab initio simulation of proton spin diffusion. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9172-5	3.6	28
161	Experimental observation of periodic quasi-equilibria in solid-state NMR. <i>Chemical Physics Letters</i> , 1999 , 308, 381-389	2.5	28
160	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	3.8	27
159	Dendritic polarizing agents for DNP SENS. <i>Chemical Science</i> , 2017 , 8, 416-422	9.4	27
158	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, 12937-41	16.4	27
157	Selective pulses and their applications to assignment and structure determination in nuclear magnetic resonance. <i>Methods in Enzymology</i> , 1994 , 239, 207-46	1.7	27
156	NMR spectroscopy probes microstructure, dynamics and doping of metal halide perovskites. <i>Nature Reviews Chemistry</i> , 2021 , 5, 624-645	34.6	27
155	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	16.4	26
154	Resonator with reduced sample heating and increased homogeneity for solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2008 , 191, 78-92	3	26
153	The effect of spin decoupling on line shapes in solid-state nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1996 , 104, 2518-2528	3.9	26
152	Nanoscale Phase Segregation in Supramolecular Templating for Hybrid Perovskite Photovoltaics from NMR Crystallography. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1529-1538	16.4	26
151	Solvent suppression in DNP enhanced solid state NMR. <i>Journal of Magnetic Resonance</i> , 2017 , 277, 149-153	15.3	25
150	Orthogonal filtered recoupled-STOCSY to extract metabolic networks associated with minor perturbations from NMR spectroscopy. <i>Journal of Proteome Research</i> , 2011 , 10, 4342-8	5.6	25

- ¹⁴⁹ Motional heterogeneity in single-site silica-supported species revealed by deuterium NMR. *Physical Chemistry Chemical Physics*, **2009**, 11, 6962-71 3.6 25
- ¹⁴⁸ Correlation of fast and slow chemical shift spinning sideband patterns under fast magic-angle spinning. *Journal of Magnetic Resonance*, **2003**, 160, 40-6 3 25
- ¹⁴⁷ Assignment and Measurement of Deuterium Quadrupolar Couplings in Liquid Crystals by Deuterium-Carbon NMR Correlation Spectroscopy. *Journal of Physical Chemistry B*, **1998**, 102, 3718-3723 3.4 25
- ¹⁴⁶ Unraveling Overlapping Multiplets in Two-Dimensional NMR Correlation Spectra by Selective Inversion of Coupling Partners. *Angewandte Chemie International Edition in English*, **1990**, 29, 517-520 25
- ¹⁴⁵ A well-defined mesoporous amine silica surface via a selective treatment of SBA-15 with ammonia. *Chemical Communications*, **2012**, 48, 3067-9 5.8 24
- ¹⁴⁴ Numerical simulation of free evolution in solid-state nuclear magnetic resonance using low-order correlations in Liouville space. *Journal of Chemical Physics*, **2010**, 133, 224501 3.9 24
- ¹⁴³ Proton-proton constraints in powdered solids from (1)H-(1)H-(1)H and (1)H-(1)H-(13)C three-dimensional NMR chemical shift correlation spectroscopy. *Journal of the American Chemical Society*, **2001**, 123, 5604-5 16.4 24
- ¹⁴² Cellulose phosphorylation comparison and analysis of phosphate position on cellulose fibers. *Carbohydrate Polymers*, **2020**, 229, 115294 10.3 24
- ¹⁴¹ A Bayesian approach to NMR crystal structure determination. *Physical Chemistry Chemical Physics*, **2019**, 21, 23385-23400 3.6 24
- ¹⁴⁰ 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 5.6 23
- ¹³⁹ Better characterization of surface organometallic catalysts through resolution enhancement in proton solid state NMR spectra. *Inorganic Chemistry*, **2006**, 45, 9587-92 5.1 23
- ¹³⁸ A New NMR Method for the Study of Local Mobility in Solids and Application to Hydration of Biopolymers in Plant Cell Walls. *Macromolecules*, **2002**, 35, 5078-5084 5.5 23
- ¹³⁷ Self-refocusing effect of 270° Gaussian pulses. Applications to selective two-dimensional exchange spectroscopy. *Journal of Magnetic Resonance*, **1989**, 82, 211-221 23
- ¹³⁶ High-resolution NMR of hydrogen in organic solids by DNP enhanced natural abundance deuterium spectroscopy. *Journal of Magnetic Resonance*, **2015**, 259, 192-8 3 22
- ¹³⁵ Weak and Transient Protein Interactions Determined by Solid-State NMR. *Angewandte Chemie - International Edition*, **2016**, 55, 6638-41 16.4 22
- ¹³⁴ Hydrophobic radicals embedded in neutral surfactants for dynamic nuclear polarization of aqueous environments at 9.4 Tesla. *Chemical Communications*, **2014**, 50, 10198-201 5.8 22
- ¹³³ Backbone Assignment of Fully Protonated Solid Proteins by 1H Detection and Ultrafast Magic-Angle-Spinning NMR Spectroscopy. *Angewandte Chemie*, **2012**, 124, 10914-10917 3.6 21
- ¹³² A master-equation approach to the description of proton-driven spin diffusion from crystal geometry using simulated zero-quantum lineshapes. *Physical Chemistry Chemical Physics*, **2011**, 13, 7363-70 3.6 21

131	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	16.4	21
130	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	16.4	21
129	Methane reacts with heteropolyacids chemisorbed on silica to produce acetic acid under soft conditions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 804-10	16.4	20
128	Molecular Level Characterization of the Structure and Interactions in Peptide-Functionalized Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2016 , 22, 16531-16538	4.8	20
127	Nanostructure of Materials Determined by Relayed Paramagnetic Relaxation Enhancement. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12482-5	16.4	19
126	A first-principles description of proton-driven spin diffusion. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 86-9	3.6	19
125	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	3.8	19
124	Methyl proton contacts obtained using heteronuclear through-bond transfers in solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10625-32	16.4	19
123	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	16.4	19
122	Does $Z\neq 1$ 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	3.6	18
121	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8726-8730	16.4	18
120	DNP enhanced NMR with flip-back recovery. <i>Journal of Magnetic Resonance</i> , 2018 , 288, 69-75	3	18
119	Hyperpolarized long-lived nuclear spin states in monodeuterated methyl groups. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9755-9759	3.6	18
118	Combination of DQ and ZQ coherences for sensitive through-bond NMR correlation experiments in biosolids under ultra-fast MAS. <i>ChemPhysChem</i> , 2012 , 13, 2405-11	3.2	18
117	Improved phase-modulated homonuclear dipolar decoupling for solid-state NMR spectroscopy from symmetry considerations. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 5280-90	2.8	18
116	Deuterium-Carbon NMR Correlation Spectroscopy in Oriented Materials. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12000-12001	16.4	18
115	Quasi equilibria in solid-state NMR. <i>Chemical Physics Letters</i> , 1998 , 293, 110-118	2.5	18
114	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	16.4	18

113	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	16.4	17
112	Predicting the DNP-SENS efficiency in reactive heterogeneous catalysts from hydrophilicity. <i>Chemical Science</i> , 2018 , 9, 4866-4872	9.4	17
111	¹³ C-detected through-bond correlation experiments for protein resonance assignment by ultra-fast MAS solid-state NMR. <i>ChemPhysChem</i> , 2013 , 14, 3131-7	3.2	17
110	Broad-ranging natural metabotype variation drives physiological plasticity in healthy control inbred rat strains. <i>Journal of Proteome Research</i> , 2011 , 10, 1675-89	5.6	17
109	Sample restriction using magnetic field gradients in high-resolution solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2000 , 145, 334-9	3	17
108	Deuterium to carbon cross-polarization in liquid crystals. <i>Journal of Chemical Physics</i> , 1998 , 109, 1873-1884	3.9	17
107	Multimodal host-guest complexation for efficient and stable perovskite photovoltaics. <i>Nature Communications</i> , 2021 , 12, 3383	17.4	17
106	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	2.8	17
105	Paramagnetic Properties of a Crystalline Iron-Sulfur Protein by Magic-Angle Spinning NMR Spectroscopy. <i>Inorganic Chemistry</i> , 2017 , 56, 6624-6629	5.1	16
104	Multifunctional Molecular Modulation for Efficient and Stable Hybrid Perovskite Solar Cells. <i>Chimia</i> , 2019 , 73, 317-323	1.3	16
103	Macroscopic nuclear spin diffusion constants of rotating polycrystalline solids from first-principles simulation. <i>Journal of Magnetic Resonance</i> , 2015 , 254, 48-55	3	16
102	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	11.5	16
101	Synthesis and reactivity of molybdenum imido alkylidene bis-pyrazolide complexes. <i>Dalton Transactions</i> , 2010 , 39, 8547-51	4.3	16
100	Solid-State NMR Spectroscopy of a Paramagnetic Protein: Assignment and Study of Human Dimeric Oxidized CuII/ZnII Superoxide Dismutase (SOD). <i>Angewandte Chemie</i> , 2007 , 119, 1097-1100	3.6	16
99	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	3.1	16
98	Multi-dimensional magnetic resonance imaging in a stray magnetic field. <i>Journal of Magnetic Resonance</i> , 2005 , 172, 79-84	3	16
97	Self-refocusing 270 degrees Gaussian pulses for slice selection without gradient reversal in magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1989 , 10, 273-81	4.4	16
96	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	3.4	15

95	On the orientational dependence of resolution in ^1H solid-state NMR, and its role in MAS, CRAMPS and delayed-acquisition experiments. <i>Magnetic Resonance in Chemistry</i> , 2007 , 45 Suppl 1, S93-100	2.1	15
94	Tailored Polarizing Hybrid Solids with Nitroxide Radicals Localized in Mesostructured Silica Walls. <i>Helvetica Chimica Acta</i> , 2017 , 100, e1700101	2	14
93	Atomistic Origins of the Limited Phase Stability of Cs^+ -Rich $\text{FAxCs}(1-x)\text{PbI}_3$ Mixtures. <i>Chemistry of Materials</i> , 2020 , 32, 2605-2614	9.6	14
92	Single crystal nuclear magnetic resonance in spinning powders. <i>Journal of Chemical Physics</i> , 2011 , 135, 144201	3.9	14
91	Targeted projection NMR spectroscopy for unambiguous metabolic profiling of complex mixtures. <i>Magnetic Resonance in Chemistry</i> , 2010 , 48, 727-33	2.1	14
90	Hyperpolarization of Frozen Hydrocarbon Gases by Dynamic Nuclear Polarization at 1.2 K. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3235-9	6.4	14
89	High-resolution ^1H NMR of powdered solids by homonuclear dipolar decoupling. <i>Journal of Magnetic Resonance</i> , 2019 , 309, 106598	3	13
88	Maximizing nuclear hyperpolarization in pulse cooling under MAS. <i>Journal of Magnetic Resonance</i> , 2019 , 300, 142-148	3	13
87	Structural description of surfaces and interfaces in biominerals by DNP SENS. <i>Solid State Nuclear Magnetic Resonance</i> , 2019 , 102, 2-11	3.1	13
86	^1H Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7249-7253	16.4	13
85	A common theory for phase-modulated homonuclear decoupling in solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9121-30	3.6	13
84	Probing surface site heterogeneity through 1D and INADEQUATE31P solid state NMR spectroscopy of silica supported $\text{PMe}_3\text{-Au(I)}$ adducts. <i>Chemical Science</i> , 2011 , 2, 928	9.4	13
83	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, 4230-3	3.6	13
82	Sample restriction using radiofrequency field selective pulses in high-resolution solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2002 , 154, 136-41	3	13
81	The Effect of Imperfect Saturation in Saturation-Recovery T_1 Measurements. <i>Journal of Magnetic Resonance Series A</i> , 1996 , 118, 108-112		13
80	Determination of DNA conformational features from selective two-dimensional NMR experiments. <i>Journal of the American Chemical Society</i> , 1993 , 115, 7765-7771	16.4	13
79	Unravelling the Behavior of Dion-Jacobson Layered Hybrid Perovskites in Humid Environments. <i>ACS Energy Letters</i> , 2021 , 6, 337-344	20.1	13
78	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	9.4	12

77	High-Resolution ^1H Solid-State NMR Spectroscopy Using Windowed LG4 Homonuclear Dipolar Decoupling. <i>Israel Journal of Chemistry</i> , 2014 , 54, 136-146	3.4	12
76	Quasi-equilibria in reduced Liouville spaces. <i>Journal of Chemical Physics</i> , 2012 , 136, 224511	3.9	12
75	^{113}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	20.1	12
74	Topology of Pretreated Wood Fibers Using Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30407-30415	3.8	12
73	Homonuclear Decoupling in ^1H NMR of Solids by Remote Correlation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6235-6238	16.4	11
72	Weak and Transient Protein Interactions Determined by Solid-State NMR. <i>Angewandte Chemie</i> , 2016 , 128, 6750-6753	3.6	11
71	Intrinsic asymmetry in multidimensional solid-state NMR correlation spectra. <i>Journal of Magnetic Resonance</i> , 1998 , 130, 233-7	3	11
70	Structure determination of an amorphous drug through large-scale NMR predictions. <i>Nature Communications</i> , 2021 , 12, 2964	17.4	11
69	One- and Two-Dimensional High-Resolution NMR from Flat Surfaces. <i>ACS Central Science</i> , 2019 , 5, 515-523	23.8	11
68	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	3.6	11
67	Probing Protein Dynamics Using Multifield Variable Temperature NMR Relaxation and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 9697-9702	3.4	11
66	Chemical exchange at the ferroelectric phase transition of lead germanate revealed by solid state Pb nuclear magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1100-1109	3.6	10
65	A solid-state NMR method to determine domain sizes in multi-component polymer formulations. <i>Journal of Magnetic Resonance</i> , 2015 , 261, 43-8	3	10
64	Line narrowing in ^1H NMR of powdered organic solids with TOP-CT-MAS experiments at ultra-fast MAS. <i>Journal of Magnetic Resonance</i> , 2019 , 305, 131-137	3	10
63	Well-defined mono(β -allyl)nickel complex $\text{MONi}(\beta\text{-C}_3\text{H}_5)$ ($\text{M} = \text{Si}$ 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, 7716-9	5.8	10
62	Improved Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy through Controlled Incorporation of Deuterated Functional Groups. <i>Angewandte Chemie</i> , 2013 , 125, 1260-1263	3.6	10
61	Benzylammonium-Mediated Formamidinium Lead Iodide Perovskite Phase Stabilization for Photovoltaics. <i>Advanced Functional Materials</i> , 2021 , 31, 2101163	15.6	10
60	Enhanced Intersystem Crossing and Transient Electron Spin Polarization in a Photoexcited Pentacene-Trityl Radical. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6068-6075	2.8	9

59	A Magic Angle Spinning Activated O DNP Raser. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 345-349	6.4	9
58	Heteronuclear proton double quantum-carbon single quantum scalar correlation in solids. <i>Journal of Magnetic Resonance</i> , 2014 , 245, 31-7	3	8
57	A scaling factor theorem for homonuclear dipolar decoupling in solid-state NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2011 , 212, 11-6	3	8
56	Improving resolution in proton solid-state NMR by removing nitrogen-14 residual dipolar broadening. <i>Chemical Physics Letters</i> , 2008 , 458, 391-395	2.5	8
55	Sensitivity Enhancements in Lithium Titanates by Incipient Wetness Impregnation DNP NMR. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16524-16528	3.8	8
54	Methods for reconstructing phase sensitive slice profiles in magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1994 , 31, 178-83	4.4	7
53	Advanced characterization of regioselectively substituted methylcellulose model compounds by DNP enhanced solid-state NMR spectroscopy. <i>Carbohydrate Polymers</i> , 2021 , 262, 117944	10.3	7
52	The role of (15)N CSA and CSA/dipole cross-correlation in (15)N relaxation in solid proteins. <i>Journal of Magnetic Resonance</i> , 2007 , 186, 26-33	3	6
51	Longitudinal relaxation pathways in scalar-coupled systems. <i>Journal of Magnetic Resonance</i> , 1989 , 81, 13-42		6
50	NMR studies of an oligoproline-containing peptide analogue that binds specifically to the H-2Kd histocompatibility molecule. <i>Biochemistry</i> , 1991 , 30, 9429-34	3.2	6
49	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. <i>Angewandte Chemie</i> , 2016 , 128, 4821-4825	3.6	6
48	Entflechtung Berlagernder Multipletts in zweidimensionalen NMR-Korrelationsspektren durch selektive Inversion der Spins der Kopplungspartner. <i>Angewandte Chemie</i> , 1990 , 102, 576-579	3.6	5
47	Volume-selective NMR spectroscopy with self-refocusing pulses. <i>Journal of Magnetic Resonance</i> , 1990 , 87, 1-17		5
46	Double selective inversion in NMR and multiple quantum effects in coupled spin systems. <i>Journal of Magnetic Resonance</i> , 1990 , 90, 214-220		5
45	Improving Sensitivity of Solid-state NMR Spectroscopy by Rational Design of Polarizing Agents for Dynamic Nuclear Polarization. <i>Chimia</i> , 2017 , 71, 190-194	1.3	4
44	Multimodal Response to Copper Binding in Superoxide Dismutase Dynamics. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19660-19667	16.4	4
43	Superstructure of a Substituted Zeolitic Imidazolate Metal-Organic Framework Determined by Combining Proton Solid-State NMR Spectroscopy and DFT Calculations. <i>Angewandte Chemie</i> , 2015 , 127, 6069-6074	3.6	4
42	Iridium(I)/N-Heterocyclic Carbene Hybrid Materials: Surface Stabilization of Low-Valent Iridium Species for High Catalytic Hydrogenation Performance. <i>Angewandte Chemie</i> , 2015 , 127, 13129-13133	3.6	4

41	Crystal-Structure Determination of Powdered Paramagnetic Lanthanide Complexes by Proton NMR Spectroscopy. <i>Angewandte Chemie</i> , 2009 , 121, 3128-3132	3.6	4
40	Spin Diffusion for NMR Crystallography 2009 ,		4
39	Endogenous ¹⁷ O Dynamic Nuclear Polarization of Gd-Doped CeO ₂ from 100 to 370 K. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18799-18809	3.8	4
38	Efficient and Stable Large Bandgap MAPbBr ₃ Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. <i>ACS Energy Letters</i> , 2022 , 7, 1112-1119	20.1	4
37	Lead-Oxygen Bond Length Distributions of the Relaxor Ferroelectric 0.67PbMg _{1/3} Nb _{2/3} O ₃ .33PbTiO ₃ from 207Pb Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15744-15750	3.8	3
36	Segmental mobility in poly(isoprene) rubber studied by deuterium-carbon NMR correlation spectroscopy. <i>Polymer Bulletin</i> , 2001 , 46, 183-190	2.4	3
35	On the use of a slice-selective 270 degrees 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, 461-3	4.4	3
34	Bayesian probabilistic assignment of chemical shifts in organic solids. <i>Science Advances</i> , 2021 , 7, eabk2341	14.3	3
33	Pure Isotropic Proton Solid State NMR. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9834-9841	16.4	3
32	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	3.4	3
31	Refocused linewidths less than 10 Hz in ¹ H solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2018 , 293, 41-46	3	3
30	Quantification of magic angle spinning dynamic nuclear polarization NMR spectra. <i>Journal of Magnetic Resonance</i> , 2021 , 329, 107030	3	3
29	Spatial Distribution of Functional Groups in Cellulose Ethers by DNP-Enhanced Solid-State NMR Spectroscopy. <i>Macromolecules</i> ,	5.5	3
28	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. <i>Joule</i> , 2020 , 4, 507-508	27.8	2
27	Measurement of Proton Spin Diffusivity in Hydrated Cementitious Solids. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5064-5069	6.4	2
26	Homonuclear Decoupling of ¹ H Dipolar Interactions in Solids by means of Heteronuclear Recoupling. <i>Israel Journal of Chemistry</i> , 2014 , 54, 154-162	3.4	2
25	Metabolic expressivity of human genetic variants: NMR metabotyping of MEN1 pathogenic mutants. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 93, 118-24	3.5	2
24	Selective Pulses 2007 ,		2

23	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	16.4	2
22	Fast remote correlation experiments for H homonuclear decoupling in solids. <i>Journal of Magnetic Resonance</i> , 2020 , 321, 106856	3	2
21	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	10.3	2
20	Hyperpolarization transfer pathways in inorganic materials. <i>Journal of Magnetic Resonance</i> , 2021 , 323, 106888	3	2
19	Naphthalenediimide/Formamidine-Based Low-Dimensional Perovskites. <i>Chemistry of Materials</i> , 2021 , 33, 6412-6420	9.6	2
18	¹⁹ F Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. <i>Angewandte Chemie</i> , 2019 , 131, 7327-7331	3.6	1
17	Solid-State NMR 2014 , 297-354		1
16	Relaxation Studies of Solid Biopolymers 2010 ,		1
15	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	16.4	1
14	Structural and DNA binding properties of mycobacterial integration host factor mIHF. <i>Journal of Structural Biology</i> , 2020 , 209, 107434	3.4	1
13	Iron incorporation in synthetic precipitated calcium silicate hydrates. <i>Cement and Concrete Research</i> , 2021 , 142, 106365	10.3	1
12	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	3.9	1
11	Theory and simulations of homonuclear three-spin systems in rotating solids. <i>Journal of Chemical Physics</i> , 2021 , 155, 084201	3.9	1
10	H Detected Relayed Dynamic Nuclear Polarization.. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 7564-7570	3.8	1
9	Homonuclear Decoupling in ¹ H NMR of Solids by Remote Correlation. <i>Angewandte Chemie</i> , 2020 , 132, 6294-6297	3.6	0
8	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. <i>Angewandte Chemie</i> , 2017 , 129, 8852-8856	3.5	0
7	Multi-Length Scale Structure of 2D/3D Dion-Jacobson Hybrid Perovskites Based on an Aromatic Diammonium Spacer. <i>Small</i> , 2021 , e2104287	11	0
6	The Atomic-Level Structure of Cementitious Calcium Aluminate Silicate Hydrate Determined by NMR. <i>Chimia</i> , 2021 , 75, 272-275	1.3	0

5 Protein Dynamics in the Solid State **2012**, 366-375

4 Polarisationstransfer Ber die Wasser-Protein-Grenzfläche im Festkörper. *Angewandte Chemie*, **2008**, 120, 5935-5938

3.6

3 Gaussian Pulse Cascades and Selective Two-Dimensional NMR **1990**, 449-450

2 The Role of Selective Two-Dimensional NMR Correlation Methods in Supplementing Computer-Supported Multiplet Analysis by MARCO POLO **1991**, 151-162

1 Guanine-Stabilized Formamidinium Lead Iodide Perovskites. *Angewandte Chemie*, **2020**, 132, 4721-4727 3.6