

Andreas Brinkmann

List of Publications by Year in descending order

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44
papers

2,175
citations

279487

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45
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docs citations

45
times ranked

1665
citing authors

#	ARTICLE	IF	CITATIONS
1	Symmetry principles for the design of radiofrequency pulse sequences in the nuclear magnetic resonance of rotating solids. <i>Chemical Physics Letters</i> , 2000, 321, 205-215.	1.2	319
2	Proton-Selective ^{17}O - ^1H Distance Measurements in Fast Magic-Angle-Spinning Solid-State NMR Spectroscopy for the Determination of Hydrogen Bond Lengths. <i>Journal of the American Chemical Society</i> , 2006, 128, 14758-14759.	6.6	250
3	Symmetry principles in the nuclear magnetic resonance of spinning solids: Heteronuclear recoupling by generalized Hartmann-Hahn sequences. <i>Journal of Chemical Physics</i> , 2001, 115, 357-384.	1.2	206
4	Synchronous helical pulse sequences in magic-angle spinning nuclear magnetic resonance: Double quantum recoupling of multiple-spin systems. <i>Journal of Chemical Physics</i> , 2000, 112, 8539-8554.	1.2	199
5	Correlating Cellulose Nanocrystal Particle Size and Surface Area. <i>Langmuir</i> , 2016, 32, 6105-6114.	1.6	131
6	Direct Determination of a Peptide Torsional Angle ψ by Double-Quantum Solid-State NMR. <i>Journal of the American Chemical Society</i> , 1997, 119, 12006-12007.	6.6	110
7	Homonuclear Zero-Quantum Recoupling in Fast Magic-Angle Spinning Nuclear Magnetic Resonance. <i>Journal of Magnetic Resonance</i> , 2002, 156, 79-96.	1.2	77
8	Sensitivity Enhancement and Heteronuclear Distance Measurements in Biological ^{17}O Solid-State NMR. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16089-16101.	1.2	67
9	Microcoil High-Resolution Magic Angle Spinning NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 8722-8723.	6.6	62
10	Second order average Hamiltonian theory of symmetry-based pulse schemes in the nuclear magnetic resonance of rotating solids: Application to triple-quantum dipolar recoupling. <i>Journal of Chemical Physics</i> , 2004, 120, 11726-11745.	1.2	59
11	^{14}N overtone NMR spectra under magic angle spinning: Experiments and numerically exact simulations. <i>Journal of Chemical Physics</i> , 2013, 138, 064201.	1.2	47
12	Heteronuclear decoupling interference during symmetry-based homonuclear recoupling in solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2005, 177, 307-317.	1.2	46
13	Quantification of amine functional groups on silica nanoparticles: a multi-method approach. <i>Nanoscale Advances</i> , 2019, 1, 1598-1607.	2.2	43
14	Proton Probability Distribution in the $\text{O}\cdots\text{H}\cdots\text{O}$ Low-Barrier Hydrogen Bond: A Combined Solid-State NMR and Quantum Chemical Computational Study of Dibenzoylmethane and Curcumin. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11692-11704.	1.2	41
15	Quantification of surface functional groups on silica nanoparticles: comparison of thermogravimetric analysis and quantitative NMR. <i>Analyst</i> , 2019, 144, 5589-5599.	1.7	41
16	Quantification and Stability Determination of Surface Amine Groups on Silica Nanoparticles Using Solution NMR. <i>Analytical Chemistry</i> , 2018, 90, 13322-13330.	3.2	39
17	Scalable Gas-Phase Purification of Boron Nitride Nanotubes by Selective Chlorine Etching. <i>Chemistry of Materials</i> , 2020, 32, 3911-3921.	3.2	38
18	Solid-State ^{17}O NMR Reveals Hydrogen Bonding Energetics: Not All Low-Barrier Hydrogen Bonds Are Strong. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6166-6170.	7.2	33

#	ARTICLE	IF	CITATIONS
19	Introduction to average Hamiltonian theory. I. Basics. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2016, 45A, .	0.2	32
20	Multiple-quantum relaxation in the magic-angle-spinning NMR of spin pairs. Solid State Nuclear Magnetic Resonance, 1999, 14, 43-58.	1.5	27
21	Symmetry-based recoupling in double-rotation NMR spectroscopy. Journal of Chemical Physics, 2008, 129, 174507.	1.2	27
22	Capturing Elusive Polymorphs of Curcumin: A Structural Characterization and Computational Study. Crystal Growth and Design, 2018, 18, 5556-5563.	1.4	27
23	Determination of Molecular Geometry by High-Order Multiple-Quantum Evolution in Solid-State NMR. Journal of Magnetic Resonance, 2000, 144, 266-279.	1.2	25
24	Triple-quantum dynamics in multiple-spin systems undergoing magic-angle spinning: application to ¹³ C homonuclear correlation spectroscopy. Journal of Magnetic Resonance, 2005, 173, 259-279.	1.2	24
25	Environmentally friendly flame retardants. A detailed solid-state NMR study of melamine orthophosphate. Magnetic Resonance in Chemistry, 2007, 45, S231-S246.	1.1	24
26	Structure of Melaminium Dihydrogenpyrophosphate and Its Formation from Melaminium Dihydrogenphosphate Studied with Powder Diffraction Data, Solid-State NMR, and Theoretical Calculations. Journal of Physical Chemistry B, 2004, 108, 15069-15076.	1.2	20
27	Estimating internuclear distances between half-integer quadrupolar nuclei by central-transition double-quantum sideband NMR spectroscopy. Canadian Journal of Chemistry, 2011, 89, 892-899.	0.6	18
28	Proton micro-magic-angle-spinning NMR spectroscopy of nanoliter samples. Chemical Physics Letters, 2010, 485, 275-280.	1.2	17
29	Central-transition double-quantum sideband NMR spectroscopy of half-integer quadrupolar nuclei: estimating internuclear distances and probing clusters within multi-spin networks. Physical Chemistry Chemical Physics, 2014, 16, 7037-7050.	1.3	14
30	A Multi-Method Approach for Quantification of Surface Coatings on Commercial Zinc Oxide Nanomaterials. Nanomaterials, 2020, 10, 678.	1.9	13
31	Solid-state ¹⁷ O NMR study of β -D-glucose: exploring new frontiers in isotopic labeling, sensitivity enhancement, and NMR crystallography. Chemical Science, 2022, 13, 2591-2603.	3.7	13
32	EASY-GOING DUMBO on-spectrometer optimisation of phase modulated homonuclear decoupling sequences in solid-state NMR. Chemical Physics Letters, 2011, 509, 186-191.	1.2	12
33	Solid-State NMR Determination of Sugar Ring Pucker in ¹³ C-Labeled 2'-Deoxynucleosides. Biophysical Journal, 2002, 83, 2835-2844.	0.2	11
34	Structural Analysis of a Melaminium Polyphosphate from X-ray Powder Diffraction and Solid-State NMR Data. Journal of Physical Chemistry B, 2005, 109, 13529-13537.	1.2	9
35	Solid-State ¹⁷ O NMR Reveals Hydrogen Bonding Energetics: Not All Low-Barrier Hydrogen Bonds Are Strong. Angewandte Chemie, 2017, 129, 6262-6266.	1.6	9
36	Optimisation of excitation schemes for ¹⁴ N overtone MAS NMR using numerically exact simulations. Solid State Nuclear Magnetic Resonance, 2017, 84, 34-40.	1.5	7

#	ARTICLE	IF	CITATIONS
37	Solid-State ¹ H, ¹³ C, and ¹⁷ O NMR Characterization of the Two Uncommon Polymorphs of Curcumin. <i>Crystal Growth and Design</i> , 2020, 20, 7484-7491.	1.4	7
38	Surface chemistry of metal oxide nanoparticles: NMR and TGA quantification. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4409-4425.	1.9	7
39	Structure of Tetrakis(melaminium) Bis(dihydrogenphosphate) Monohydrogenphosphate Trihydrate from X-ray Powder Diffraction and Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12515-12523.	1.5	6
40	High field solid state ¹³ C NMR spectroscopy of cucurbituril materials. <i>CrystEngComm</i> , 2014, 16, 3788.	1.3	6
41	Metrologically traceable quantification of trifluoroacetic acid content in peptide reference materials by ¹⁹ F solid-state NMR. <i>Metrologia</i> , 2019, 56, 024002.	0.6	5
42	Insight into the chromophore of rhodopsin and its Meta-II photointermediate by ¹⁹ F solid-state NMR and chemical shift tensor calculations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30174-30188.	1.3	4
43	¹³ C-Satellite Decoupling Strategies for Improving Accuracy in Quantitative Nuclear Magnetic Resonance. <i>Analytical Chemistry</i> , 2021, 93, 851-858.	3.2	3
44	Correction to Solid-State ¹ H, ¹³ C, and ¹⁷ O NMR Characterization of the Two Uncommon Polymorphs of Curcumin. <i>Crystal Growth and Design</i> , 2021, 21, 5472-5472.	1.4	0