Andreas Brinkmann

List of Publications by Year
in descending order

44 papers	2,175 citations	279487 23 h-index	253896 43 g-index
45 all docs	45 docs citations	45 times ranked	1665 citing authors

#	Article	IF	Citations
1	Solid-state ¹⁷O NMR study of Î±-<scp>d</scp>-glucose: exploring new frontiers in isotopic labeling, sensitivity enhancement, and NMR crystallography. Chemical Science, 2022, 13, 2591-2603.	3.7	13
2	Surface chemistry of metal oxide nanoparticles: NMR and TGA quantification. Analytical and Bioanalytical Chemistry, 2022, 414, 4409-4425.	1.9	7
3	13C-Satellite Decoupling Strategies for Improving Accuracy in Quantitative Nuclear Magnetic Resonance. Analytical Chemistry, 2021, 93, 851-858.	3.2	3
4	Correction to Solid-State 1H, 13C, and 17O NMR Characterization of the Two Uncommon Polymorphs of Curcumin. Crystal Growth and Design, 2021, 21, 5472-5472.	1.4	0
5	Solid-State 1H, 13C, and 17O NMR Characterization of the Two Uncommon Polymorphs of Curcumin. Crystal Growth and Design, 2020, 20, 7484-7491.	1.4	7
6	Scalable Gas-Phase Purification of Boron Nitride Nanotubes by Selective Chlorine Etching. Chemistry of Materials, 2020, 32, 3911-3921.	3.2	38
7	A Multi-Method Approach for Quantification of Surface Coatings on Commercial Zinc Oxide Nanomaterials. Nanomaterials, 2020, 10, 678.	1.9	13
8	Quantification of surface functional groups on silica nanoparticles: comparison of thermogravimetric analysis and quantitative NMR. Analyst, The, 2019, 144, 5589-5599.	1.7	41
9	Metrologically traceable quantification of trifluoroacetic acid content in peptide reference materials by19F solid-state NMR. Metrologia, 2019, 56, 024002.	0.6	5
10	Quantification of amine functional groups on silica nanoparticles: a multi-method approach. Nanoscale Advances, 2019, 1, 1598-1607.	2.2	43
11	Insight into the chromophore of rhodopsin and its Meta-II photointermediate by ¹⁹F solid-state NMR and chemical shift tensor calculations. Physical Chemistry Chemical Physics, 2018, 20, 30174-30188.	1.3	4
12	Quantification and Stability Determination of Surface Amine Groups on Silica Nanoparticles Using Solution NMR. Analytical Chemistry, 2018, 90, 13322-13330.	3.2	39
13	Capturing Elusive Polymorphs of Curcumin: A Structural Characterization and Computational Study. Crystal Growth and Design, 2018, 18, 5556-5563.	1.4	27
14	Solidâ€State ¹⁷Oâ€…NMR Reveals Hydrogenâ€Bonding Energetics: Not All Lowâ€Barrier Hydrogen Bonds Are Strong. Angewandte Chemie - International Edition, 2017, 56, 6166-6170.	7.2	33
15	Solidâ€State 17 Oâ€…NMR Reveals Hydrogenâ€Bonding Energetics: Not All Lowâ€Barrier Hydrogen Bonds Are Strong. Angewandte Chemie, 2017, 129, 6262-6266.	1.6	9
16	Optimisation of excitation schemes for 14N overtone MAS NMR using numerically exact simulations. Solid State Nuclear Magnetic Resonance, 2017, 84, 34-40.	1.5	7
17	Proton Probability Distribution in the OÂ·Â·Â·HÂ·Â·Â·O Low-Barrier Hydrogen Bond: A Combined Solid-State NMR and Quantum Chemical Computational Study of Dibenzoylmethane and Curcumin. Journal of Physical Chemistry B, 2016, 120, 11692-11704.	1.2	41
18	Introduction to average Hamiltonian theory. I. Basics. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2016, 45A, .	0.2	32

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19	Correlating Cellulose Nanocrystal Particle Size and Surface Area. Langmuir, 2016, 32, 6105-6114.	1.6	131
20	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
21	High field solid state 13C NMR spectroscopy of cucurbituril materials. CrystEngComm, 2014, 16, 3788.	1.3	6
22	14N overtone NMR spectra under magic angle spinning: Experiments and numerically exact simulations. Journal of Chemical Physics, 2013, 138, 064201.	1.2	47
23	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
24	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
25	Proton micro-magic-angle-spinning NMR spectroscopy of nanoliter samples. Chemical Physics Letters, 2010, 485, 275-280.	1.2	17
26	Structure of Tetrakis(melaminium) Bis(dihydrogenphosphate) Monohydrogenphosphate Trihydrate from X-ray Powder Diffraction and Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 12515-12523.	1.5	6
27	Symmetry-based recoupling in double-rotation NMR spectroscopy. Journal of Chemical Physics, 2008, 129, 174507.	1.2	27
28	Environmentally friendly flame retardants. A detailed solid-state NMR study of melamine orthophosphate. Magnetic Resonance in Chemistry, 2007, 45, S231-S246.	1.1	24
29	Microcoil High-Resolution Magic Angle Spinning NMR Spectroscopy. Journal of the American Chemical Society, 2006, 128, 8722-8723.	6.6	62
30	Proton-Selective17Oâ^'1H Distance Measurements in Fast Magic-Angle-Spinning Solid-State NMR Spectroscopy for the Determination of Hydrogen Bond Lengths. Journal of the American Chemical Society, 2006, 128, 14758-14759.	6.6	250
31	Sensitivity Enhancement and Heteronuclear Distance Measurements in Biological17O Solid-State NMR. Journal of Physical Chemistry B, 2006, 110, 16089-16101.	1.2	67
32	Triple-quantum dynamics in multiple-spin systems undergoing magic-angle spinning: application to 13C homonuclear correlation spectroscopy. Journal of Magnetic Resonance, 2005, 173, 259-279.	1.2	24
33	Heteronuclear decoupling interference during symmetry-based homonuclear recoupling in solid-state NMR. Journal of Magnetic Resonance, 2005, 177, 307-317.	1.2	46
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	Second order average Hamiltonian theory of symmetry-based pulse schemes in the nuclear magnetic resonance of rotating solids: Application to triple-quantum dipolar recoupling. Journal of Chemical Physics, 2004, 120, 11726-11745.	1.2	59
36	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

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37	Solid-State NMR Determination of Sugar Ring Pucker in 13C-Labeled 2â€²-Deoxynucleosides. Biophysical Journal, 2002, 83, 2835-2844.	0.2	11
38	Homonuclear Zero-Quantum Recoupling in Fast Magic-Angle Spinning Nuclear Magnetic Resonance. Journal of Magnetic Resonance, 2002, 156, 79-96.	1.2	77
39	Symmetry principles in the nuclear magnetic resonance of spinning solids: Heteronuclear recoupling by generalized Hartmannâ€“Hahn sequences. Journal of Chemical Physics, 2001, 115, 357-384.	1.2	206
40	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
41	Symmetry principles for the design of radiofrequency pulse sequences in the nuclear magnetic resonance of rotating solids. Chemical Physics Letters, 2000, 321, 205-215.	1.2	319
42	Synchronous helical pulse sequences in magic-angle spinning nuclear magnetic resonance: Double quantum recoupling of multiple-spin systems. Journal of Chemical Physics, 2000, 112, 8539-8554.	1.2	199
43	Multiple-quantum relaxation in the magic-angle-spinning NMR of spin pairs. Solid State Nuclear Magnetic Resonance, 1999, 14, 43-58.	1.5	27
44	Direct Determination of a Peptide Torsional Angle Ï^ by Double-Quantum Solid-State NMR. Journal of the American Chemical Society, 1997, 119, 12006-12007.	6.6	110