

# Arno P M Kentgens

## List of Publications by Year in descending order

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202  
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9,815  
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43889

91  
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210  
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210  
docs citations

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times ranked

9072  
citing authors

#	ARTICLE	IF	CITATIONS
1	Equilibrium lithium transport between nanocrystalline phases in intercalated TiO <sub>2</sub> anatase. <i>Nature</i> , 2002, 418, 397-399.	27.8	452
2	Stepwise Dealumination of Zeolite Îeta at Specific T-Sites Observed with <sup>27</sup> Al MAS and <sup>27</sup> Al MQ MAS NMR. <i>Journal of the American Chemical Society</i> , 2000, 122, 12842-12847.	13.7	314
3	Two Phase Morphology Limits Lithium Diffusion in TiO <sub>2</sub> (Anatase): A <sup>7</sup> Li MAS NMR Study. <i>Journal of the American Chemical Society</i> , 2001, 123, 11454-11461.	13.7	285
4	Advantages of double frequency sweeps in static, MAS and MQMAS NMR of spin I=3/2 nuclei. <i>Chemical Physics Letters</i> , 1999, 300, 435-443.	2.6	281
5	<sup>23</sup> Na NMR Spectroscopy of Solids: Interpretation of Quadrupole Interaction Parameters and Chemical Shifts. <i>The Journal of Physical Chemistry</i> , 1994, 98, 1544-1551.	2.9	277
6	A structural investigation relating to the pozzolanic activity of rice husk ashes. <i>Cement and Concrete Research</i> , 2008, 38, 861-869.	11.0	264
7	Proton-Selective <sup>17</sup> O- <sup>1</sup> H 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.	13.7	250
8	Particle morphology and chemical microstructure of colloidal silica spheres made from alkoxy silanes. <i>Journal of Non-Crystalline Solids</i> , 1992, 149, 161-178.	3.1	224
9	A practical guide to solid-state NMR of half-integer quadrupolar nuclei with some applications to disordered systems. <i>Geoderma</i> , 1997, 80, 271-306.	5.1	210
10	Li-Ion Diffusion in the Equilibrium Nanomorphology of Spinel Li <sub>4-x</sub> Ti <sub>5</sub> O <sub>12</sub> . <i>Journal of Physical Chemistry B</i> , 2009, 113, 224-230.	2.6	189
11	Unravelling Li-Ion Transport from Picoseconds to Seconds: Bulk versus Interfaces in an Argyrodite Li <sub>6</sub> PS <sub>5</sub> ClLi <sub>2</sub> S All-Solid-State Li-Ion Battery. <i>Journal of the American Chemical Society</i> , 2016, 138, 11192-11201.	13.7	188
12	Changes in Structural and Electronic Properties of the Zeolite Framework Induced by Extraframework Al and La in H-USY and La(x)NaY: A <sup>29</sup> Si and <sup>27</sup> Al MAS NMR and <sup>27</sup> Al MQ MAS NMR Study. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6743-6754.	2.6	182
13	Nanoconfined LiBH <sub>4</sub> as a Fast Lithium Ion Conductor. <i>Advanced Functional Materials</i> , 2015, 25, 184-192.	14.9	176
14	Population and Coherence Transfer Induced by Double Frequency Sweeps in Half-Integer Quadrupolar Spin Systems. <i>Journal of Magnetic Resonance</i> , 2000, 147, 192-209.	2.1	164
15	Confinement of NaAlH <sub>4</sub> in Nanoporous Carbon: Impact on H <sub>2</sub> Release, Reversibility, and Thermodynamics. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4675-4682.	3.1	156
16	Lithium Storage in Amorphous TiO[sub 2] Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2010, 157, A582.	2.9	153
17	Lithium Dynamics in LiMn <sub>2</sub> O <sub>4</sub> Probed Directly by Two-Dimensional <sup>7</sup> Li NMR. <i>Physical Review Letters</i> , 2001, 86, 4314-4317.	7.8	141
18	A Microfluidic High-Resolution NMR Flow Probe. <i>Journal of the American Chemical Society</i> , 2009, 131, 5014-5015.	13.7	135

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19	High-resolution liquid- and solid-state nuclear magnetic resonance of nanoliter sample volumes using microcoil detectors. <i>Journal of Chemical Physics</i> , 2008, 128, 052202.	3.0	127
20	ssNake: A cross-platform open-source NMR data processing and fitting application. <i>Journal of Magnetic Resonance</i> , 2019, 301, 56-66.	2.1	124
21	Binding features of molecular clips derived from diphenylglycoluril. <i>Journal of the American Chemical Society</i> , 1993, 115, 8999-9005.	13.7	113
22	Two-dimensional exchange NMR in rotating solids: A technique to study very slow molecular reorientations. <i>Chemical Physics Letters</i> , 1984, 109, 337-342.	2.6	104
23	Supramolecular Structure, Physical Properties, and Langmuir-Blodgett Film Formation of an Optically Active Liquid-Crystalline Phthalocyanine. <i>Chemistry - A European Journal</i> , 1995, 1, 171-182.	3.3	103
24	Stripline probes for nuclear magnetic resonance. <i>Journal of Magnetic Resonance</i> , 2007, 189, 104-113.	2.1	103
25	Calcination and deboronation of [B]-MFI single crystals. <i>Zeolites</i> , 1993, 13, 128-138.	0.5	102
26	Sodium Environments in Dry and Hydrated Albite Glasses: Improved <sup>23</sup> Na Solid State NMR Data and Their Implications for Water Dissolution Mechanisms. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 79-87.	3.9	100
27	Microscopic structure of the polymer-induced liquid precursor for calcium carbonate. <i>Nature Communications</i> , 2018, 9, 2582.	12.8	100
28	Proton magic angle spinning nuclear magnetic resonance and temperature programmed desorption studies of ammonia on the acidity of the framework hydroxyl groups in the zeolite H-ZSM-5 and in H-borolite. <i>The Journal of Physical Chemistry</i> , 1984, 88, 5-8.	2.9	94
29	Interactions of Fullerenes and Calixarenes in the Solid State Studied with <sup>13</sup> C CP-MAS NMR. <i>Journal of the American Chemical Society</i> , 1994, 116, 6965-6966.	13.7	92
30	The Influence of Size on Phase Morphology and Li-Ion Mobility in Nanosized Lithiated Anatase TiO <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2007, 13, 2023-2028.	3.3	90
31	Effect of hydration on the local symmetry around aluminum in ZSM-5 zeolites studied by aluminum-27 nuclear magnetic resonance. <i>The Journal of Physical Chemistry</i> , 1983, 87, 4357-4360.	2.9	88
32	Ultraslow molecular motions in crystalline polyoxymethylene. A complete elucidation using two-dimensional solid state NMR. <i>Journal of Chemical Physics</i> , 1987, 87, 6859-6866.	3.0	86
33	Determination of gallium in H(Ga)ZSM5 zeolites by gallium-71 MAS NMR spectroscopy. <i>The Journal of Physical Chemistry</i> , 1992, 96, 775-782.	2.9	84
34	Nanoconfined LiBH <sub>4</sub> and Enhanced Mobility of Li <sup>+</sup> Studied by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22169-22178.	3.1	83
35	Implementing solenoid microcoils for wide-line solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2004, 167, 87-96.	2.1	78
36	Comprehensive Study of Melt Infiltration for the Synthesis of NaAlH <sub>4</sub> /C Nanocomposites. <i>Chemistry of Materials</i> , 2010, 22, 2233-2238.	6.7	78

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37	Direct Observation of Brønsted Acidic Sites in Dehydrated Zeolite H-ZSM5 Using DFS-Enhanced <sup>27</sup> Al MQMAS NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 2925-2926.	13.7	77
38	Symmetry, Dynamics, and Defects in Methylammonium Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 61-66.	4.6	75
39	A <sup>29</sup> Si solid-state magic angle spinning nuclear magnetic resonance study of TEOS-based hybrid materials. <i>Journal of Non-Crystalline Solids</i> , 1995, 189, 77-89.	3.1	74
40	High-resolution solid-state <sup>13</sup> C-NMR study of carbons C-5 and C-12 of the chromophore of bovine rhodopsin. Evidence for a 6-S-cis conformation with negative-charge perturbation near C-12. <i>FEBS Journal</i> , 1987, 163, 9-14.	0.2	71
41	Solid-state NMR of hybrid halide perovskites. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 100, 36-44.	2.3	68
42	Binding of dihydroxybenzenes in a synthetic molecular clip. Effect of hydrogen bonding and $\pi$ -stacking. <i>Journal of Organic Chemistry</i> , 1991, 56, 3199-3201.	3.2	67
43	Sensitivity Enhancement and Heteronuclear Distance Measurements in Biological <sup>17</sup> O Solid-State NMR. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16089-16101.	2.6	67
44	<sup>27</sup> Al MQMAS and Off-Resonance Nutation NMR Investigation of Mo <sup>VI</sup> - <sup>3</sup> Al <sub>2</sub> O <sub>3</sub> Hydrotreating Catalyst Precursors. <i>The Journal of Physical Chemistry</i> , 1996, 100, 16336-16345.	2.9	66
45	Optimization of stripline-based microfluidic chips for high-resolution NMR. <i>Journal of Magnetic Resonance</i> , 2009, 201, 175-185.	2.1	66
46	Synthesis of molecular sieve [B]-BEA and modification of the boron site. <i>Zeolites</i> , 1993, 13, 611-621.	0.5	64
47	Synthesis, characterization, and reactions of rhodium(I) and iridium(I) bis(iminophosphoranyl)methanide complexes in which the ligand acts as a $\sigma$ -N, $\sigma$ -C chelate. X-ray crystal structures of [Ir{CH(PPh <sub>2</sub> :NC <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> -4) <sub>2</sub> }(COD)]. <i>Organometallics</i> , 1993, 12, 1523-1536.	2.3	63
48	Microcoil High-Resolution Magic Angle Spinning NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 8722-8723.	13.7	62
49	A Solid State Double Resonance NMR Investigation of Phosphorus-Impregnated $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>The Journal of Physical Chemistry</i> , 1995, 99, 16080-16086.	2.9	58
50	Strategies for extracting NMR parameters from MAS, DOR and MQMAS spectra. A case study for Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> . <i>Solid State Nuclear Magnetic Resonance</i> , 1999, 15, 171-180.	2.3	58
51	<sup>27</sup> Al nutation NMR of zeolites. <i>Chemical Physics Letters</i> , 1985, 120, 206-210.	2.6	56
52	Two-dimensional solid-state nutation NMR of half-integer quadrupolar nuclei. <i>Journal of Magnetic Resonance</i> , 1987, 71, 62-74.	0.5	55
53	Line-broadening effects for xenon-129 absorbed in the amorphous state of solid polymers. <i>Macromolecules</i> , 1991, 24, 3712-3714.	4.8	55
54	Synthesis and characterization of polyisocyanides derived from alanine and glycine dipeptides. <i>Journal of Polymer Science Part A</i> , 2001, 39, 4255-4264.	2.3	54

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55	Influencing the satellite transitions of half-integer quadrupolar nuclei for the enhancement of magic angle spinning spectra. <i>Journal of Magnetic Resonance</i> , 2002, 158, 65-72.	2.1	54
56	Multiple Quantum $^{27}\text{Al}$ Magic-Angle-Spinning Nuclear Magnetic Resonance Spectroscopic Study of $\text{SrAl}_2\text{O}_7$ : Identification of a $^{27}\text{Al}$ Resonance from a Well-Defined $\text{AlO}_5$ Site. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5969-5976.	2.6	53
57	Solid-State NMR Studies of the Local Structure of $\text{NaAlH}_4/\text{C}$ Nanocomposites at Different Stages of Hydrogen Desorption and Rehydrogenation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4683-4692.	3.1	53
58	Rovibrational Motion of CO in Solid $\text{C}_{60}$ . <i>Physical Review Letters</i> , 1997, 79, 1138-1141.	7.8	51
59	Sensitivity-enhanced $^{13}\text{C}$ MR spectroscopy of the human brain at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 271-278.	3.0	50
60	A 2D-exchange NMR study of very slow molecular motions in crystalline poly(oxymethylene). <i>Macromolecules</i> , 1985, 18, 1045-1048.	4.8	48
61	Rotational-resonance NMR experiments in half-integer quadrupolar spin systems. <i>Molecular Physics</i> , 2000, 98, 161-178.	1.7	48
62	Double rotation and magic-angle spinning nuclear magnetic resonance study of $^{27}\text{Al}$ : reexamination of the aluminium borate $9\text{Al}_2\text{O}_3 \cdot 2\text{B}_2\text{O}_3$ . <i>Solid State Nuclear Magnetic Resonance</i> , 1995, 5, 175-180.	2.3	47
63	Multinuclear Solid-State High-Resolution and $^{13}\text{C}$ - $\{^{27}\text{Al}\}$ Double-Resonance Magic-Angle Spinning NMR Studies on Aluminum Alkoxides. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6553-6560.	2.6	45
64	New opportunities for double rotation NMR of half-integer quadrupolar nuclei. <i>Journal of Magnetic Resonance</i> , 2006, 178, 212-219.	2.1	45
65	Population and coherence transfer in half-integer quadrupolar spin systems induced by simultaneous rapid passages of the satellite transitions: A static and spinning single crystal nuclear magnetic resonance study. <i>Journal of Chemical Physics</i> , 2001, 114, 3073-3091.	3.0	44
66	Dimethylammonium Incorporation in Lead Acetate Based $\text{MAPbI}_3$ Perovskite Solar Cells. <i>ChemPhysChem</i> , 2018, 19, 3107-3115.	2.1	43
67	Structure Investigation on Anhydrous Disodium Hydrogen Phosphate Using Solid-State NMR and X-ray Techniques. <i>Journal of the American Chemical Society</i> , 1995, 117, 5141-5147.	13.7	42
68	A $^{27}\text{Al}$ MAS, MQMAS and off-resonance nutation NMR study of aluminium containing silica-based sol-gel materials. <i>Solid State Nuclear Magnetic Resonance</i> , 1997, 9, 203-217.	2.3	42
69	Towards nuclear magnetic resonance $\hat{1}/4$ -spectroscopy and $\hat{1}/4$ -imaging. <i>Analyst</i> , 2004, 129, 793-803.	3.5	41
70	A $^6\text{Li}$ , $^7\text{Li}$ and $^{59}\text{Co}$ MAS NMR study of rock salt type $\text{Li}_x\text{CoO}_2$ (0.48 $\leq x \leq$ 1.05). <i>Solid State Ionics</i> , 1998, 112, 41-52.	2.7	38
71	A Nuclear Magnetic Resonance Study of Amorphous and Crystalline Lanthanum-Aluminates. <i>Journal of Physical Chemistry B</i> , 1999, 103, 7591-7598.	2.6	38
72	Optimization of localized $^{19}\text{F}$ magnetic resonance spectroscopy for the detection of fluorinated drugs in the human liver. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 303-308.	3.0	38

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73	Quantitative analysis of high field liquid state dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17831.	2.8	38
74	The removal of gallium from the lattice of MFI-galasilicates as studied by $^{71}\text{Ga}$ m.a.s.-n.m.r. spectroscopy. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 1292.	2.0	37
75	A structural investigation of octa-n-undecoxypthalocyanine in the solid and liquid-crystalline state and of poly(octa-n-undecoxypthalocyaninato)siloxane by high-resolution solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 1990, 112, 8800-8806.	13.7	36
76	Comments on the $^{27}\text{Al}$ NMR Visibility of Aluminas. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3862-3865.	2.6	36
77	Frequency stepped adiabatic passage excitation of half-integer quadrupolar spin systems. <i>Molecular Physics</i> , 1998, 93, 195-213.	1.7	36
78	Investigation of $\text{V}_2\text{O}_5/\text{Nb}_2\text{O}_5$ Catalysts by $^{51}\text{V}$ Solid-State NMR. <i>The Journal of Physical Chemistry</i> , 1995, 99, 9169-9175.	2.9	34
79	Strategies for solid-state NMR in high-field Bitter and hybrid magnets. <i>Chemical Physics Letters</i> , 2003, 376, 338-345.	2.6	34
80	Solid-State NMR Studies of the Photochromic Effects of Thin Films of Oxygen-Containing Yttrium Hydride. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22935-22942.	3.1	34
81	Perspectives on DNP-enhanced NMR spectroscopy in solutions. <i>Journal of Magnetic Resonance</i> , 2016, 264, 59-67.	2.1	34
82	Continuous Flow $^1\text{H}$ and $^{13}\text{C}$ NMR Spectroscopy in Microfluidic Stripline NMR Chips. <i>Analytical Chemistry</i> , 2017, 89, 2296-2303.	6.5	34
83	Off-resonance nutation nuclear magnetic resonance spectroscopy of half-integer quadrupolar nuclei. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1998, 32, 141-164.	7.5	33
84	Off-Resonance Nutation NMR Spectroscopy of Half-Integer Quadrupolar Nuclei. <i>Journal of Magnetic Resonance Series A</i> , 1993, 104, 302-309.	1.6	31
85	Solid-State NMR Investigations of $\text{MgCl}_2$ Catalyst Support. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6063-6074.	3.1	31
86	Equilibrium Lithium Ion Transport Between Nanocrystalline Lithium-Inserted Anatase $\text{TiO}_2$ and the Electrolyte. <i>Chemistry - A European Journal</i> , 2011, 17, 14811-14816.	3.3	30
87	Refocused continuous-wave decoupling: A new approach to heteronuclear dipolar decoupling in solid-state NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 137, 214202.	3.0	30
88	A solid-state NMR and DFT study of compositional modulations in $\text{Al}_x\text{Ga}_{1-x}\text{As}$ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11517.	2.8	29
89	Rapid-melt Dynamic Nuclear Polarization. <i>Journal of Magnetic Resonance</i> , 2015, 258, 40-48.	2.1	29
90	Phase Behavior and Ion Dynamics of Nanoconfined $\text{LiBH}_4$ in Silica. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25559-25569.	3.1	29

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91	Hydrogen bonding and chemical shift assignments in carbazole functionalized isocyanides from solid-state NMR and first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13082.	2.8	28
92	Inline Reaction Monitoring of Amine-Catalyzed Acetylation of Benzyl Alcohol Using a Microfluidic Stripline Nuclear Magnetic Resonance Setup. <i>Journal of the American Chemical Society</i> , 2019, 141, 5369-5380.	13.7	28
93	Microscopic (Dis)order and Dynamics of Cations in Mixed FA/MA Lead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1742-1753.	3.1	28
94	A <sup>69</sup> Ga and <sup>71</sup> Ga MAS NMR study of the gallium analogue zeolite ZSM-5. <i>Chemical Physics Letters</i> , 1991, 176, 399-403.	2.6	27
95	High fraction of penta-coordinated aluminium in amorphous and crystalline aluminium borates. <i>Solid State Nuclear Magnetic Resonance</i> , 1995, 5, 163-173.	2.3	27
96	Symmetry-based recoupling in double-rotation NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2008, 129, 174507.	3.0	27
97	Synthesis, Characterization, and Surface Initiated Polymerization of Carbazole Functionalized Isocyanides. <i>Chemistry of Materials</i> , 2010, 22, 2597-2607.	6.7	27
98	Pushing the limit of liquid-state dynamic nuclear polarization at high field. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5846.	2.8	27
99	Network Structure in Acrylate Systems: Effect of Junction Topology on Cross-Link Density and Macroscopic Gel Properties. <i>Macromolecules</i> , 2016, 49, 6531-6540.	4.8	27
100	Off-resonance nutation nuclear magnetic resonance study of framework aluminosilicate glasses with Li, Na, K, Rb or Cs as charge-balancing cation. <i>Solid State Nuclear Magnetic Resonance</i> , 1995, 5, 189-200.	2.3	26
101	Homonuclear Correlation Experiments of Half-Integer Quadrupolar Nuclei Using Multiple-Quantum Techniques Spinning at a P4Magic Angle. <i>Journal of the American Chemical Society</i> , 2003, 125, 2398-2399.	13.7	26
102	Polymorphism and Migratory Chiral Resolution of the Free Base of Venlafaxine. A Remarkable Topotactical Solid State Transition from a Racemate to a Racemic Conglomerate. <i>Crystal Growth and Design</i> , 2008, 8, 71-79.	3.0	26
103	Reversible Li-insertion in nanoscaffolds: A promising strategy to alter the hydrogen sorption properties of Li-based complex hydrides. <i>Nano Energy</i> , 2016, 22, 169-178.	16.0	26
104	Wide-Line Solid-State NMR Characterizations of Sodium Alanates. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15467-15472.	3.1	25
105	Environmentally friendly flame retardants. A detailed solid-state NMR study of melamine orthophosphate. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, S231-S246.	1.9	24
106	A High-Conversion-Factor, Double-Resonance Structure for High-Field Dynamic Nuclear Polarization. <i>Applied Magnetic Resonance</i> , 2010, 37, 851-864.	1.2	24
107	The chemical structure of the amorphous phase of propylene-ethylene random copolymers in relation to their stress-strain properties. <i>Polymer</i> , 2014, 55, 896-905.	3.8	24
108	Spatially Resolved Spectroscopy and Structurally Encoded Imaging by Magnetic Resonance Force Microscopy of Quadrupolar Spin Systems. <i>Journal of the American Chemical Society</i> , 2002, 124, 1588-1589.	13.7	23



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109	Gelatin Nanoparticles with Enhanced Affinity for Calcium Phosphate. <i>Macromolecular Bioscience</i> , 2016, 16, 717-729.	4.1	23
110	Structural Characterization of Electron Donors in Ziegler-Natta Catalysts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5525-5536.	3.1	23
111	Homocorrelation experiments for quadrupolar nuclei, spinning away from the magic angle. <i>Solid State Nuclear Magnetic Resonance</i> , 2004, 26, 180-186.	2.3	22
112	Heteronuclear J-resolved solid-state NMR of filled natural rubber. <i>Macromolecules</i> , 1987, 20, 1234-1237.	4.8	21
113	<sup>27</sup> Al nuclear magnetic resonance study of synthetic and natural corundum ( $\alpha$ -Al <sub>2</sub> O <sub>3</sub> ) Some experimental aspects of quantitative <sup>27</sup> Al nuclear magnetic resonance spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 1994, 3, 315-322.	2.3	21
114	Single-Pulse MAS, Selective Hahn Echo MAS, and 3QMAS NMR Studies of the Mineral Zoisite at 400, 500, 600, and 800 MHz. Exploring the Limits of Al NMR Detectability. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11612-11616.	2.6	21
115	A Solid-State Fluorine-NMR Study on Hexafluorobenzene Sorbed by Sediments, Polymers, and Active Carbon. <i>Environmental Science &amp; Technology</i> , 2000, 34, 645-649.	10.0	21
116	Tail gas catalyzed N <sub>2</sub> O decomposition over Fe-beta zeolite. On the promoting role of framework connected AlO <sub>6</sub> sites in the vicinity of Fe by controlled dealumination during exchange. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 218-226.	20.2	21
117	Structural Investigations of MA <sub>1-x</sub> DMA <sub>x</sub> Pb <sub>3</sub> Mixed-Cation Perovskites. <i>Inorganic Chemistry</i> , 2020, 59, 3730-3739.	4.0	21
118	Solid-state MAS NMR study of pentameric aluminosilicate groups with 180 degrees intertetrahedral Al-O-Si angles in zunyite and harkerite. <i>American Mineralogist</i> , 1995, 80, 39-45.	1.9	20
119	Structure of Melaminium Dihydrogenpyrophosphate and Its Formation from Melaminium Dihydrogenphosphate Studied with Powder Diffraction Data, Solid-State NMR, and Theoretical Calculations. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15069-15076.	2.6	20
120	TRAPDOR double-resonance and high-resolution MAS NMR for structural and template studies in zeolite ZSM-5. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 35, 61-66.	2.3	20
121	Polarization transfer for sensitivity-enhanced MRS using a single radio frequency transmit channel. <i>NMR in Biomedicine</i> , 2008, 21, 444-452.	2.8	19
122	A practical comparison of MQMAS techniques. <i>Solid State Nuclear Magnetic Resonance</i> , 2007, 32, 99-108.	2.3	18
123	High-resolution solid-state <sup>13</sup> C $\gamma$ /4 MAS NMR with long coherence life times. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 104-106.	2.8	18
124	Proton micro-magic-angle-spinning NMR spectroscopy of nanoliter samples. <i>Chemical Physics Letters</i> , 2010, 485, 275-280.	2.6	17
125	The carbon chemical shift tensor in polyoxymethylene. <i>Journal of Chemical Physics</i> , 1987, 87, 6854-6858.	3.0	16
126	Transmission electron microscopy of thin YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films on (001) SrTiO <sub>3</sub> prepared by DC triode sputtering. <i>Journal of Crystal Growth</i> , 1988, 91, 355-362.	1.5	16



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127	Magnetic resonance studies on porous alumina doped with iron and chromium. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1519.	1.7	16
128	Motion of CO Molecules in Solid C <sub>60</sub> Probed by Solid-State NMR. Journal of the American Chemical Society, 1999, 121, 199-207.	13.7	16
129	Liquid state dynamic nuclear polarization of ethanol at 3.4 T (95 GHz). Physical Chemistry Chemical Physics, 2014, 16, 8493.	2.8	16
130	Uncovering the Local Magnesium Environment in the Metal-Organic Framework Mg <sub>2</sub> (dobpdc) Using <sup>25</sup> Mg NMR Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 19938-19945.	3.1	16
131	2D Exchange NMR Spectra under Slow MAS: A Simplified Scheme to Obtain Pure-Phase Spectra without Unwanted Cross Peaks. Journal of Magnetic Resonance, 1999, 138, 66-73.	2.1	15
132	<sup>27</sup> Al, <sup>23</sup> Na, and <sup>45</sup> Sc Solid-State NMR Studies of ScCl <sub>3</sub> -Doped NaAlH <sub>4</sub> . Journal of Physical Chemistry C, 2011, 115, 13100-13106.	3.1	15
133	EASY-GOING deconvolution: Combining accurate simulation and evolutionary algorithms for fast deconvolution of solid-state quadrupolar NMR spectra. Journal of Magnetic Resonance, 2011, 211, 114-120.	2.1	15
134	Spatially resolved spectroscopy using tapered stripline NMR. Journal of Magnetic Resonance, 2016, 263, 136-146.	2.1	15
135	Triple-quantum excitation enhancement in MQMAS experiments on spin I=5/2 systems. Chemical Physics Letters, 2001, 343, 556-562.	2.6	14
136	Full quadrupolar tensor determination by NMR using a micro-crystal spinning at the magic angle. Physical Chemistry Chemical Physics, 2010, 12, 4813.	2.8	14
137	Direct View on Nanoionic Proton Mobility. Advanced Functional Materials, 2011, 21, 1364-1374.	14.9	14
138	Probing Interactions between Electron Donors and the Support in MgCl <sub>2</sub> -Supported Ziegler-Natta Catalysts. Journal of Physical Chemistry C, 2018, 122, 17865-17881.	3.1	14
139	Hybrid particles derived from alendronate and bioactive glass for treatment of osteoporotic bone defects. Journal of Materials Chemistry B, 2019, 7, 796-808.	5.8	14
140	EPR and NMR studies of amorphous aluminium borates. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 2663.	1.7	13
141	Hyphenation of Supercritical Fluid Chromatography and NMR with In-Line Sample Concentration. Analytical Chemistry, 2018, 90, 10457-10464.	6.5	13
142	Oxidation Products of NaAlH <sub>4</sub> Studied by Solid-State NMR and X-ray Diffraction. Journal of Physical Chemistry C, 2011, 115, 7002-7011.	3.1	12
143	EASY-GOING DUMBO on-spectrometer optimisation of phase modulated homonuclear decoupling sequences in solid-state NMR. Chemical Physics Letters, 2011, 509, 186-191.	2.6	12
144	Direct Backbone Structure Determination of Polyisocyanodipeptide Using Solid-State Nuclear Magnetic Resonance. Macromolecules, 2012, 45, 2209-2218.	4.8	12

#	ARTICLE	IF	CITATIONS
145	EASY-GOING deconvolution: Automated MQMAS NMR spectrum analysis based on a model with analytical crystallite excitation efficiencies. <i>Journal of Magnetic Resonance</i> , 2013, 228, 116-124.	2.1	12
146	Structural Studies of Polyaramid Fibers: Solid-State NMR and First-Principles Modeling. <i>Macromolecules</i> , 2016, 49, 5548-5560.	4.8	12
147	Quantitative excitation of half-integer quadrupolar nuclei by a frequency-stepped adiabatic half-passage. <i>Journal of Magnetic Resonance</i> , 1991, 95, 619-625.	0.5	11
148	Introduction of gallium in HZSM5 and HY zeolites by post-synthesis treatment with trimethylgallium. <i>Catalysis Letters</i> , 1993, 17, 349-361.	2.6	11
149	Sensitivity enhancement in MAS NMR of half-integer quadrupolar nuclei using sideband selective double-frequency sweeps. <i>Canadian Journal of Chemistry</i> , 2011, 89, 1130-1137.	1.1	11
150	ECâ€“SPEâ€“stripline-NMR analysis of reactive products: a feasibility study. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6711-6720.	3.7	11
151	Solid-state NMR studies of Zieglerâ€“Natta and metallocene catalysts. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 68-69, 37-56.	2.3	11
152	Towards Overhauser DNP in supercritical CO 2. <i>Journal of Magnetic Resonance</i> , 2016, 267, 30-36.	2.1	11
153	Monitoring Heterogeneously Catalyzed Hydrogenation Reactions at Elevated Pressures Using In-Line Flow NMR. <i>Analytical Chemistry</i> , 2019, 91, 12636-12643.	6.5	11
154	Preactive Site in Zieglerâ€“Natta Catalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14490-14500.	3.1	11
155	An Optimized NMR Stripline for Sensitive Supercritical Fluid Chromatography-Nuclear Magnetic Resonance of Microliter Sample Volumes. <i>Analytical Chemistry</i> , 2020, 92, 13010-13016.	6.5	11
156	NMR investigation of atomic ordering in Al <sub>x</sub> Ga <sub>1-x</sub> As thin films. <i>Physical Review B</i> , 2004, 69, .	3.2	10
157	Transmit/receive headcoil for optimal 1H MR spectroscopy of the brain in paediatric patients at 3 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004, 17, 1-4.	2.0	10
158	High resolution triple resonance micro magic angle spinning NMR spectroscopy of nanoliter sample volumes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4902-4910.	2.8	10
159	Shim-on-Chip Design for Microfluidic NMR Detectors. <i>Analytical Chemistry</i> , 2018, 90, 10134-10138.	6.5	10
160	[sup 29]Si-Nuclear Magnetic Resonance on the Etching Products of Silicon in Potassium Hydroxide Solutions. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2195.	2.9	9
161	Structural Analysis of a Melaminium Polyphosphate from X-ray Powder Diffraction and Solid-State NMR Data. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13529-13537.	2.6	9
162	Analysis of mass-limited mixtures using supercritical-fluid chromatography and microcoil NMR. <i>Analyst, The</i> , 2015, 140, 6217-6221.	3.5	9

#	ARTICLE	IF	CITATIONS
163	Repetitive sideband-selective double frequency sweeps for sensitivity enhancement of MAS NMR of half-integer quadrupolar nuclei. <i>Journal of Magnetic Resonance</i> , 2012, 219, 25-32.	2.1	8
164	Dual-functionalisation of gelatine nanoparticles with an anticancer platinum(II)-bisphosphonate complex and mineral-binding alendronate. <i>RSC Advances</i> , 2016, 6, 113025-113037.	3.6	8
165	Imaging human teeth by phosphorus magnetic resonance with nuclear Overhauser enhancement. <i>Scientific Reports</i> , 2016, 6, 30756.	3.3	8
166	Rotational-resonance NMR experiments in half-integer quadrupolar spin systems. <i>Molecular Physics</i> , 2000, 98, 161-178.	1.7	8
167	Residual quadrupolar couplings observed in 7 Tesla deuterium MR spectra of skeletal muscle. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1165-1173.	3.0	8
168	Mechanical detection of NMR. Advantages of a digital approach. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 4025-4031.	2.8	7
169	Framework and extra-framework aluminium in wet ion exchanged Fe-ZSM5 and the effect of steam during the decomposition of N <sub>2</sub> O. <i>Solid State Nuclear Magnetic Resonance</i> , 2011, 39, 99-105.	2.3	7
170	Solid Effect DNP in a Rapid-melt setup. <i>Journal of Magnetic Resonance</i> , 2016, 263, 126-135.	2.1	7
171	Rationalising Heteronuclear Decoupling in Refocussing Applications of Solid-State NMR Spectroscopy. <i>ChemPhysChem</i> , 2017, 18, 394-405.	2.1	7
172	The coordinative state of aluminium alkyls in Ziegler-Natta catalysts. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7974-7988.	2.8	7
173	Solid-State Nuclear Magnetic Resonance Characterization of Residual <sup>23</sup> Na in Aramid Fibers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14439-14448.	3.1	7
174	Rapid-melt DNP for multidimensional and heteronuclear high-field NMR experiments. <i>Journal of Magnetic Resonance</i> , 2020, 310, 106656.	2.1	7
175	The Nature of Interface Interactions Leading to High Ionic Conductivity in LiBH <sub>4</sub> /SiO <sub>2</sub> Nanocomposites. <i>ACS Applied Energy Materials</i> , 2022, 5, 8057-8066.	5.1	7
176	Structure and dynamics of [C <sub>5</sub> H <sub>5</sub> Fe(CO) <sub>2</sub> (E(CH <sub>3</sub> ) <sub>2</sub> )]BF <sub>4</sub> (E → S, Se, Te) complexes studied by <sup>13</sup> C solid state NMR spectroscopy. <i>Journal of Organometallic Chemistry</i> , 1992, 429, 99-108.	1.8	6
177	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.	3.1	6
178	Quadrupolar nutation NMR to discriminate central and satellite transitions: Spectral assignments for a Ziegler-Natta catalyst. <i>Journal of Magnetic Resonance</i> , 2017, 281, 199-208.	2.1	6
179	Hydroxyl Defects and Oxide Vacancies within Ringwoodite toward Understanding the Defect Chemistry of Spinel-Type Oxides. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12001-12009.	3.1	6
180	Applications of two-dimensional solid state NMR. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1987, 327, 63-64.	0.8	5



#	ARTICLE	IF	CITATIONS
199	Towards Nuclear Magnetic Resonance $\gamma$ -Spectroscopy and $\gamma$ -Imaging. ChemInform, 2005, 36, no.	0.0	0
200	FEASIBILITY STUDIES FOR THE IMPLEMENTATION OF NUCLEAR MAGNETIC RESONANCE IN A 25T HYBRID MAGNET. , 2002, , .		0
201	Super-Slow Motions in Crystalline Polyoxymethylene a Complete Elucidation Using 2D Solid State NMR. , 1988, , 164-168.		0
202	Hyphenated structural identification of additives in transmission fluids. Analyst, The, 2022, , .	3.5	0