

Andrew J Pell

List of Publications by Year in descending order

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63
papers

3,496
citations

159585

30
h-index

138484

58
g-index

67
all docs

67
docs citations

67
times ranked

4299
citing authors

#	ARTICLE	IF	CITATIONS
1	¹ H-Detected Biomolecular NMR under Fast Magic-Angle Spinning. <i>Chemical Reviews</i> , 2022, 122, 9943-10018.	47.7	51
2	Half-integer-spin quadrupolar nuclei in magic-angle spinning paramagnetic NMR: The case of NaMnO ₂ . <i>Journal of Magnetic Resonance</i> , 2022, , 107235.	2.1	2
3	Proton-detected fast-magic-angle spinning NMR of paramagnetic inorganic solids. <i>RSC Advances</i> , 2021, 11, 29870-29876.	3.6	3
4	Frequency-swept adiabatic pulses for broadband solid-state MAS NMR. <i>Journal of Magnetic Resonance</i> , 2021, 324, 106911.	2.1	8
5	Indium(III) in the "Periodic Table" of Di(2-pyridyl) Ketone: An Unprecedented Transformation of the Ligand and Solid-State ¹¹⁵ In NMR Spectroscopy as a Valuable Structural Tool. <i>Inorganic Chemistry</i> , 2021, 60, 4829-4840.	4.0	4
6	Computational insight into the hydrogenation of CO ₂ and carbamic acids to methanol by a ruthenium(II)-based catalyst: The role of amino (NH) ligand group. <i>Molecular Catalysis</i> , 2021, 506, 111544.	2.0	4
7	Ni ₂ P Nanoparticles Embedded in Mesoporous SiO ₂ for Catalytic Hydrogenation of SO ₂ to Elemental S. <i>ACS Applied Nano Materials</i> , 2021, 4, 5665-5676.	5.0	14
8	A method to calculate the NMR spectra of paramagnetic species using thermalized electronic relaxation. <i>Journal of Magnetic Resonance</i> , 2021, 326, 106939.	2.1	8
9	Nickel Phosphide Nanoparticles for Selective Hydrogenation of SO ₂ to H ₂ S. <i>ACS Applied Nano Materials</i> , 2021, 4, 6568-6582.	5.0	11
10	Crystal and electronic facet analysis of ultrafine Ni ₂ P particles by solid-state NMR nanocrystallography. <i>Nature Communications</i> , 2021, 12, 4334.	12.8	17
11	Separation of quadrupolar and paramagnetic shift interactions in high-resolution nuclear magnetic resonance of spinning powders. <i>Journal of Chemical Physics</i> , 2021, 155, 094202.	3.0	4
12	Exploring the Origins of Improved Photocurrent by Acidic Treatment for Quaternary Tantalum-Based Oxynitride Photoanodes on the Example of CaTaO ₂ N. <i>Journal of Physical Chemistry C</i> , 2020, 124, 152-160.	3.1	28
13	Electrochemical Denitrification and Oxidative Dehydrogenation of Ethylbenzene over N-doped Mesoporous Carbon: Atomic Level Understanding of Catalytic Activity by ¹⁵ N NMR Spectroscopy. <i>Chemistry of Materials</i> , 2020, 32, 7263-7273.	6.7	28
14	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.	13.7	33
15	A biocompatible ZnNa ₂ -based metal-organic framework with high ibuprofen, nitric oxide and metal uptake capacity. <i>Materials Advances</i> , 2020, 1, 2248-2260.	5.4	8
16	Low-power synchronous helical pulse sequences for large anisotropic interactions in MAS NMR: Double-quantum excitation of ¹⁴ N. <i>Journal of Chemical Physics</i> , 2020, 153, 244202.	3.0	6
17	Residual Lignin and Zwitterionic Polymer Grafts on Cellulose Nanocrystals for Antifouling and Antibacterial Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3060-3071.	4.4	32
18	Resolving Dirac electrons with broadband high-resolution NMR. <i>Nature Communications</i> , 2020, 11, 1285.	12.8	13

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19	The role of oxygen vacancies on the vibrational motions of hydride ions in the oxyhydride of barium titanate. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6360-6371.	10.3	9
20	Separation of quadrupolar and paramagnetic shift interactions with TOPâ€TMAS/MQMAS in solidâ€state lighting phosphors. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1055-1070.	1.9	6
21	Cellulose from the green macroalgae <i>Ulva lactuca</i> : isolation, characterization, optotracing, and production of cellulose nanofibrils. <i>Cellulose</i> , 2020, 27, 3707-3725.	4.9	91
22	Paramagnetic NMR in solution and the solid state. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2019, 111, 1-271.	7.5	274
23	Nature of Chemisorbed CO ₂ in Zeolite A. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21497-21503.	3.1	34
24	When Do Anisotropic Magnetic Susceptibilities Lead to Large NMR Shifts? Exploring Particle Shape Effects in the Battery Electrode Material LiFePO ₄ . <i>Journal of the American Chemical Society</i> , 2019, 141, 13089-13100.	13.7	22
25	Mysterious SiB ₃ : Identifying the Relation between \hat{I}_{\pm} and \hat{I}^2 -SiB ₃ . <i>ACS Omega</i> , 2019, 4, 18741-18759.	3.5	9
26	Selective Control of Composition in Prussian White for Enhanced Material Properties. <i>Chemistry of Materials</i> , 2019, 31, 7203-7211.	6.7	86
27	Observing an Antisense Drug Complex in Intact Human Cells by inâ€Cell NMR Spectroscopy. <i>ChemBioChem</i> , 2019, 20, 2474-2478.	2.6	38
28	Insights into the Exfoliation Process of V ₂ O ₅ â€nH ₂ O Nanosheet Formation Using Real-Time ⁵¹ V NMR. <i>ACS Omega</i> , 2019, 4, 10899-10905.	3.5	12
29	Artefact-free broadband 2D NMR for separation of quadrupolar and paramagnetic shift interactions. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 101, 51-62.	2.3	8
30	Dynamics of Hydride Ions in Metal Hydride-Reduced BaTiO ₃ Samples Investigated with Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2019-2030.	3.1	19
31	Dynamic Nuclear Polarizationâ€Enhanced Biomolecular NMR Spectroscopy at High Magnetic Field with Fast Magicâ€Angle Spinning. <i>Angewandte Chemie</i> , 2018, 130, 7580-7584.	2.0	8
32	Synthesis and Physical Properties of the Oxofluoride Cu ₂ (SeO ₃)F ₂ . <i>Inorganic Chemistry</i> , 2018, 57, 4640-4648.	4.0	11
33	Dynamic Nuclear Polarizationâ€Enhanced Biomolecular NMR Spectroscopy at High Magnetic Field with Fast Magicâ€Angle Spinning. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7458-7462.	13.8	56
34	Broadband MAS NMR spectroscopy in the low-power limit. <i>Chemical Physics Letters</i> , 2018, 697, 29-37.	2.6	10
35	Exfoliation of Layered Na-Ion Anode Material Na ₂ Ti ₃ O ₇ for Enhanced Capacity and Cyclability. <i>Chemistry of Materials</i> , 2018, 30, 1505-1516.	6.7	63
36	Structural Characterization of the Li-Ion Battery Cathode Materials LiTi _x Mn ₂ O ₄ (0.2 â€ 1.5): A Combined Experimental ⁷ Li NMR and First-Principles Study. <i>Chemistry of Materials</i> , 2018, 30, 817-829.	6.7	27

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37	Large-Scale Computation of Nuclear Magnetic Resonance Shifts for Paramagnetic Solids Using CP2K. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 377-394.	5.3	34
38	Hydride Reduction of BaTiO ₃ $\hat{=}$ Oxyhydride Versus O Vacancy Formation. <i>ACS Omega</i> , 2018, 3, 11426-11438.	3.5	27
39	Investigation of the Order-Disorder Rotator Phase Transition in KSiH ₃ and RbSiH ₃ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 5241-5252.	3.1	6
40	DFT investigation of the effect of spin-orbit coupling on the NMR shifts in paramagnetic solids. <i>Physical Review B</i> , 2017, 95, .	3.2	31
41	Correlating Local Compositions and Structures with the Macroscopic Optical Properties of Ce ³⁺ -Doped CaSc ₂ O ₄ , an Efficient Green-Emitting Phosphor. <i>Chemistry of Materials</i> , 2017, 29, 3538-3546.	6.7	66
42	Low-power broadband solid-state MAS NMR of ¹⁴ N. <i>Journal of Chemical Physics</i> , 2017, 146, 194202.	3.0	26
43	A systematic study of ²⁵ Mg NMR in paramagnetic transition metal oxides: applications to Mg-ion battery materials. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 613-625.	2.8	50
44	Characterizing Oxygen Local Environments in Paramagnetic Battery Materials via ¹⁷ O NMR and DFT Calculations. <i>Journal of the American Chemical Society</i> , 2016, 138, 9405-9408.	13.7	74
45	Solid Electrolyte Interphase Growth and Capacity Loss in Silicon Electrodes. <i>Journal of the American Chemical Society</i> , 2016, 138, 7918-7931.	13.7	189
46	Broadband solid-state MAS NMR of paramagnetic systems. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2015, 84-85, 33-72.	7.5	54
47	Characterising local environments in high energy density Li-ion battery cathodes: a combined NMR and first principles study of LiFe _x Co _{1-x} PO ₄ . <i>Journal of Materials Chemistry A</i> , 2014, 2, 11948-11957.	10.3	50
48	Rapid Proton-Detected NMR Assignment for Proteins with Fast Magic Angle Spinning. <i>Journal of the American Chemical Society</i> , 2014, 136, 12489-12497.	13.7	254
49	Identifying the Critical Role of Li Substitution in P ₂ Na _x [Li _y Ni _z Mn _{1-y-z} O ₂] (0 < x < 1, 0 < y < 1, 0 < z < 1) Intercalation Cathode Materials for High-Energy Na-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 1260-1269.	6.7	417
50	Melilite LaSrGa ₃ Al _x O ₇ Series: A Combined Solid-State NMR and Neutron Diffraction Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15036-15043.	3.1	10
51	Local Environments of Dilute Activator Ions in the Solid-State Lighting Phosphor Y ₃ Al ₅ O ₁₂ :Ce. <i>Chemistry of Materials</i> , 2013, 25, 3979-3995.	6.7	208
52	Frequency-stepped acquisition in nuclear magnetic resonance spectroscopy under magic angle spinning. <i>Journal of Chemical Physics</i> , 2013, 138, 114201.	3.0	40
53	¹³ C-Detected Through-Bond Correlation Experiments for Protein Resonance Assignment by Ultra-Fast MAS Solid-State NMR. <i>ChemPhysChem</i> , 2013, 14, 3131-3137.	2.1	19
54	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, 379-386.	2.8	54

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55	Polymorphism and magnetic properties of Li ₂ MSiO ₄ (M = Fe, Mn) cathode materials. <i>Scientific Reports</i> , 2013, 3, 3452.	3.3	29
56	Structure and backbone dynamics of a microcrystalline metalloprotein by solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11095-11100.	7.1	173
57	Spin-Transfer Pathways in Paramagnetic Lithium Transition-Metal Phosphates from Combined Broadband Isotropic Solid-State MAS NMR Spectroscopy and DFT Calculations. <i>Journal of the American Chemical Society</i> , 2012, 134, 17178-17185.	13.7	122
58	Combination of DQ and ZQ Coherences for Sensitive Through-Bond NMR Correlation Experiments in Biosolids under Ultra-Fast MAS. <i>ChemPhysChem</i> , 2012, 13, 2405-2411.	2.1	21
59	Single crystal nuclear magnetic resonance in spinning powders. <i>Journal of Chemical Physics</i> , 2011, 135, 144201.	3.0	14
60	Fast Resonance Assignment and Fold Determination of Human Superoxide Dismutase by High-Resolution Proton-Detected Solid-State MAS NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11697-11701.	13.8	157
61	Broadband inversion for MAS NMR with single-sideband-selective adiabatic pulses. <i>Journal of Chemical Physics</i> , 2011, 134, 024117.	3.0	41
62	Broadband proton-decoupled proton spectra. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, 296-316.	1.9	114
63	Two-dimensional J-spectra with absorption-mode lineshapes. <i>Journal of Magnetic Resonance</i> , 2007, 189, 293-299.	2.1	126