

Aaron J Rossini

List of Publications by Year in descending order

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148
papers

7,657
citations

41344

49
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58581

82
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161
all docs

161
docs citations

161
times ranked

6072
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2013, 46, 1942-1951.	15.6	524
2	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, 12790-12797.	13.7	355
3	Dynamic Nuclear Polarization NMR Spectroscopy of Microcrystalline Solids. <i>Journal of the American Chemical Society</i> , 2012, 134, 16899-16908.	13.7	242
4	A Slowly Relaxing Rigid Biradical for Efficient Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy: Expedient Characterization of Functional Group Manipulation in Hybrid Materials. <i>Journal of the American Chemical Society</i> , 2012, 134, 2284-2291.	13.7	182
5	The Atomic-Level Structure of Cementitious Calcium Silicate Hydrate. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17188-17196.	3.1	178
6	Dynamic Nuclear Polarization Enhanced Solid-State NMR Spectroscopy of Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 123-127.	13.8	161
7	NMR Signatures of the Active Sites in Sn ²⁺ -Zeolite. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10179-10183.	13.8	157
8	Non-aqueous solvents for DNP surface enhanced NMR spectroscopy. <i>Chemical Communications</i> , 2012, 48, 654-656.	4.1	155
9	Dynamic Nuclear Polarization Enhanced NMR Spectroscopy for Pharmaceutical Formulations. <i>Journal of the American Chemical Society</i> , 2014, 136, 2324-2334.	13.7	145
10	Acquisition of ultra-wideline NMR spectra from quadrupolar nuclei by frequency stepped WURST-QCPMG. <i>Chemical Physics Letters</i> , 2009, 468, 330-335.	2.6	141
11	One hundred fold overall sensitivity enhancements for Silicon-29 NMR spectroscopy of surfaces by dynamic nuclear polarization with CPMG acquisition. <i>Chemical Science</i> , 2012, 3, 108-115.	7.4	141
12	Rational design of dinitroxide biradicals for efficient cross-effect dynamic nuclear polarization. <i>Chemical Science</i> , 2016, 7, 550-558.	7.4	141
13	Probing the Transformation of Boron Nitride Catalysts under Oxidative Dehydrogenation Conditions. <i>Journal of the American Chemical Society</i> , 2019, 141, 182-190.	13.7	135
14	Surface Termination of CsPbBr ₃ Perovskite Quantum Dots Determined by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 6117-6127.	13.7	135
15	Persistent Dopants and Phase Segregation in Organolead Mixed-Halide Perovskites. <i>Chemistry of Materials</i> , 2016, 28, 6848-6859.	6.7	132
16	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, 10710-10719.	13.7	129
17	Dynamic nuclear polarization of quadrupolar nuclei using cross polarization from protons: surface-enhanced aluminium-27 NMR. <i>Chemical Communications</i> , 2012, 48, 1988.	4.1	123
18	Cooperative Effect of Monopodal Silica-Supported Niobium Complex Pairs Enhancing Catalytic Cyclic Carbonate Production. <i>Journal of the American Chemical Society</i> , 2015, 137, 7728-7739.	13.7	123

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19	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.	2.6	121
20	Correlating Synthetic Methods, Morphology, Atomic-Level Structure, and Catalytic Activity of Sn- ¹¹⁹ Catalysts. <i>ACS Catalysis</i> , 2016, 6, 4047-4063.	11.2	106
21	Structure of Colloidal Quantum Dots from Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 13964-13971.	13.7	105
22	Amplifying Dynamic Nuclear Polarization of Frozen Solutions by Incorporating Dielectric Particles. <i>Journal of the American Chemical Society</i> , 2014, 136, 15711-15718.	13.7	103
23	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.	13.7	99
24	Lead Halide Perovskites: Challenges and Opportunities in Advanced Synthesis and Spectroscopy. <i>ACS Energy Letters</i> , 2017, 2, 906-914.	17.4	97
25	Measuring Nano- to Microstructures from Relayed Dynamic Nuclear Polarization NMR. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15993-16005.	3.1	88
26	Unraveling the Core-Shell Structure of Ligand-Capped Sn/SnO _x Nanoparticles by Surface-Enhanced Nuclear Magnetic Resonance, Mössbauer, and X-ray Absorption Spectroscopies. <i>ACS Nano</i> , 2014, 8, 2639-2648.	14.6	87
27	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, 14558-14561.	13.7	87
28	³⁵ Cl dynamic nuclear polarization solid-state NMR of active pharmaceutical ingredients. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25893-25904.	2.8	87
29	Transportable hyperpolarized metabolites. <i>Nature Communications</i> , 2017, 8, 13975.	12.8	86
30	Solid-State Chlorine NMR of Group IV Transition Metal Organometallic Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 3317-3330.	13.7	85
31	Influences of Dilute Organic Adsorbates on the Hydration of Low-Surface-Area Silicates. <i>Journal of the American Chemical Society</i> , 2015, 137, 8096-8112.	13.7	85
32	WMe ₆ Tamed by Silica: WMe ₅ as an Efficient, Well-Defined Species for Alkane Metathesis, Leading to the Observation of a Supported Methyl/Methylidyne Species. <i>Journal of the American Chemical Society</i> , 2014, 136, 1054-1061.	13.7	84
33	Experimental and Theoretical Studies of ⁴⁵ Sc NMR Interactions in Solids. <i>Journal of the American Chemical Society</i> , 2006, 128, 10391-10402.	13.7	79
34	Polymorphs of Theophylline Characterized by DNP Enhanced Solid-State NMR. <i>Molecular Pharmaceutics</i> , 2015, 12, 4146-4153.	4.6	77
35	Proton detection of MAS solid-state NMR spectra of half-integer quadrupolar nuclei. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 171-181.	2.3	75
36	The Surface Chemistry and Structure of Colloidal Lead Halide Perovskite Nanocrystals. <i>Accounts of Chemical Research</i> , 2021, 54, 707-718.	15.6	71

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37	Probing Surface Defects of InP Quantum Dots Using Phosphorus K α and K β X-ray Emission Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 6377-6388.	6.7	70
38	Application of the Carr-Purcell Meiboom-Gill Pulse Sequence for the Acquisition of Solid-State NMR Spectra of Spin-1/2 Nuclei. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7112-7120.	2.5	62
39	A Well-Defined Pd Hybrid Material for the Selective Semihydrogenation of Alkynes Characterized at the Molecular Level by DNP SENS. <i>Chemistry - A European Journal</i> , 2013, 19, 12234-12238.	3.3	61
40	DNP-enhanced solid-state NMR spectroscopy of active pharmaceutical ingredients. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 583-609.	1.9	61
41	Silicene, Siloxene, or Silicane? Revealing the Structure and Optical Properties of Silicon Nanosheets Derived from Calcium Disilicide. <i>Chemistry of Materials</i> , 2020, 32, 795-804.	6.7	59
42	Improved Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy through Controlled Incorporation of Deuterated Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1222-1225.	13.8	58
43	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.	13.7	58
44	Rapid acquisition of wideline MAS solid-state NMR spectra with fast MAS, proton detection, and dipolar HMQC pulse sequences. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25284-25295.	2.8	57
45	Synthesis and Characterization of Silica-Supported Boron Oxide Catalysts for the Oxidative Dehydrogenation of Propane. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27000-27011.	3.1	57
46	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, 15459-15466.	13.7	56
47	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.	2.8	56
48	Characterization of Pharmaceutical Cocrystals and Salts by Dynamic Nuclear Polarization-Enhanced Solid-State NMR Spectroscopy. <i>Crystal Growth and Design</i> , 2018, 18, 2588-2601.	3.0	54
49	MWW Zeolite: The Case Against Single-Site Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6546-6550.	13.8	54
50	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.	6.7	50
51	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, 1862-1874.	13.7	48
52	Probing Lead(II) Bonding Environments in 4-Substituted Pyridine Adducts of (2,6-Me $_2$ C $_6$ H $_3$ S) $_2$ Pb: An X-ray Structural and Solid-State ^{207}Pb NMR Study. <i>Inorganic Chemistry</i> , 2007, 46, 8625-8637.	4.0	46
53	NMR Signatures of the Active Sites in Sn $^{\text{II}}$ -Zeolite. <i>Angewandte Chemie</i> , 2014, 126, 10343-10347.	2.0	46
54	Materials Characterization by Dynamic Nuclear Polarization-Enhanced Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5150-5159.	4.6	46

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55	Experimental and Computational Insights into the Stabilization of Low-Valent Main Group Elements Using Crown Ethers and Related Ligands. <i>Journal of the American Chemical Society</i> , 2012, 134, 4332-4345.	13.7	41
56	Sensitivity-Enhanced ²⁰⁷ Pb Solid-State NMR Spectroscopy for the Rapid, Non-Destructive Characterization of Organolead Halide Perovskites. <i>Chemistry of Materials</i> , 2018, 30, 7005-7015.	6.7	41
57	Identifying the Molecular Edge Termination of Exfoliated Hexagonal Boron Nitride Nanosheets with Solid-State NMR Spectroscopy and Plane-Wave DFT Calculations. <i>Chemistry of Materials</i> , 2020, 32, 3109-3121.	6.7	41
58	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, 17822-17827.	2.8	40
59	Structure elucidation of a complex CO ₂ -based organic framework material by NMR crystallography. <i>Chemical Science</i> , 2016, 7, 4379-4390.	7.4	39
60	Probing the Surface Structure of Semiconductor Nanoparticles by DNP SENS with Dielectric Support Materials. <i>Journal of the American Chemical Society</i> , 2019, 141, 15532-15546.	13.7	39
61	Structure Determination of Boron-Based Oxidative Dehydrogenation Heterogeneous Catalysts With Ultrahigh Field 35.2 T ¹¹ B Solid-State NMR Spectroscopy. <i>ACS Catalysis</i> , 2020, 10, 13852-13866.	11.2	39
62	Characterization of Silicon Nanocrystal Surfaces by Multidimensional Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2017, 29, 10339-10351.	6.7	37
63	Probing O-H Bonding through Proton Detected ¹ H- ¹⁷ O Double Resonance Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 441-450.	13.7	37
64	Depolymerization of polystyrene under ambient conditions. <i>New Journal of Chemistry</i> , 2021, 45, 2935-2938.	2.8	37
65	Indirect detection of infinite-speed MAS solid-state NMR spectra. <i>Journal of Magnetic Resonance</i> , 2017, 276, 95-102.	2.1	36
66	Dynamic nuclear polarisation enhanced ¹⁴ N overtone MAS NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12890-12899.	2.8	35
67	The Structure of Molecular and Surface Platinum Sites Determined by DNP-SENS and Fast MAS ¹⁹⁵ Pt Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 18936-18945.	13.7	35
68	Rapid Characterization of Formulated Pharmaceuticals Using Fast MAS ¹ H Solid-State NMR Spectroscopy. <i>Molecular Pharmaceutics</i> , 2019, 16, 3121-3132.	4.6	32
69	Solvent suppression in DNP enhanced solid state NMR. <i>Journal of Magnetic Resonance</i> , 2017, 277, 149-153.	2.1	31
70	<i>t</i> -Noise eliminated dipolar heteronuclear multiple-quantum coherence solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20815-20828.	2.8	31
71	Crown ether complexes of tin(II) trifluoromethanesulfonate. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 1012-1018.	1.8	29
72	Argentation gas chromatography revisited: Separation of light olefin/paraffin mixtures using silver-based ionic liquid stationary phases. <i>Journal of Chromatography A</i> , 2017, 1523, 316-320.	3.7	29

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73	Enhancing the resolution of ¹ H and ¹³ C solid-state NMR spectra by reduction of anisotropic bulk magnetic susceptibility broadening. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28153-28162.	2.8	29
74	Solid-State ⁹¹ Zr NMR Spectroscopy Studies of Zirconocene Olefin Polymerization Catalyst Precursors. <i>Journal of the American Chemical Society</i> , 2010, 132, 18301-18317.	13.7	28
75	Fast Acquisition of Proton-Detected HETCOR Solid-State NMR Spectra of Quadrupolar Nuclei and Rapid Measurement of NH Bond Lengths by Frequency Selective HMQC and RESPDOR Pulse Sequences. <i>Chemistry - A European Journal</i> , 2020, 26, 7881-7888.	3.3	28
76	Topochemical Deintercalation of Li from Layered LiNiB: toward 2D MBene. <i>Journal of the American Chemical Society</i> , 2021, 143, 4213-4223.	13.7	28
77	Noncentrosymmetric Tetrel Pnictides RuSi ₄ P ₄ and IrSi ₃ P ₃ : Nonlinear Optical Materials with Outstanding Laser Damage Threshold. <i>Advanced Functional Materials</i> , 2021, 31, 2010293.	14.9	27
78	Structural variation in ethylenediamine and -diphosphine adducts of (2,6-Me ₂ C ₆ H ₃ S) ₂ Pb: a single crystal X-ray diffraction and ²⁰⁷ Pb solid-state NMR spectroscopy study. <i>Dalton Transactions</i> , 2013, 42, 9533.	3.3	26
79	High-resolution NMR of hydrogen in organic solids by DNP enhanced natural abundance deuterium spectroscopy. <i>Journal of Magnetic Resonance</i> , 2015, 259, 192-198.	2.1	26
80	Enhancing the Sensitivity of Solid-State NMR Experiments with Very Low Gyromagnetic Ratio Nuclei with Fast Magic Angle Spinning and Proton Detection. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5635-5643.	2.5	26
81	Revealing the Surface Structure of CdSe Nanocrystals by Dynamic Nuclear Polarization-Enhanced ⁷⁷ Se and ¹¹³ Cd Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 8747-8760.	13.7	25
82	Methane Reacts with Heteropolyacids Chemisorbed on Silica to Produce Acetic Acid under Soft Conditions. <i>Journal of the American Chemical Society</i> , 2013, 135, 804-810.	13.7	24
83	Computationally Driven Discovery of a Family of Layered LiNiB Polymorphs. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15855-15862.	13.8	24
84	Full-Scale Ab Initio Simulation of Magic-Angle-Spinning Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5655-5660.	4.6	24
85	Hydrophobic radicals embedded in neutral surfactants for dynamic nuclear polarization of aqueous environments at 9.4 Tesla. <i>Chemical Communications</i> , 2014, 50, 10198-10201.	4.1	23
86	Al(ORF) ₃ (RF = C(CF ₃) ₃) activated silica: a well-defined weakly coordinating surface anion. <i>Chemical Science</i> , 2020, 11, 1510-1517.	7.4	23
87	Proton-detected solid-state NMR spectroscopy of spin-1/2 nuclei with large chemical shift anisotropy. <i>Journal of Magnetic Resonance</i> , 2021, 327, 106983.	2.1	23
88	The application of frequency swept pulses for the acquisition of nuclear quadrupole resonance spectra. <i>Journal of Magnetic Resonance</i> , 2010, 206, 32-40.	2.1	22
89	A Hydride Route to Ternary Alkali Metal Borides: A Case Study of Lithium Nickel Borides. <i>Chemistry - A European Journal</i> , 2019, 25, 4123-4135.	3.3	22
90	Combining fast magic angle spinning dynamic nuclear polarization with indirect detection to further enhance the sensitivity of solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 109, 101685.	2.3	22

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91	Surface Functionalization of Black Phosphorus with Nitrenes: Identification of P=N Bonds by Using Isotopic Labeling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9127-9134.	13.8	21
92	Active Sites in a Heterogeneous Organometallic Catalyst for the Polymerization of Ethylene. <i>ACS Central Science</i> , 2021, 7, 1225-1231.	11.3	21
93	Solid-State ^{47/49} Ti NMR of Titanocene Chlorides. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2989-2998.	4.6	20
94	Local versus Average Structure in LaSrAl ₃ O ₇ : A NMR and DFT Investigation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23451-23458.	3.1	20
95	Transfer hydrogenation over sodium-modified ceria: Enrichment of redox sites active for alcohol dehydrogenation. <i>Journal of Catalysis</i> , 2017, 346, 180-187.	6.2	20
96	High-Field Magic Angle Spinning Dynamic Nuclear Polarization Using Radicals Created by ¹³ C-Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4770-4776.	4.6	19
97	Condensed Phase Deactivation of Solid Brønsted Acids in the Dehydration of Fructose to Hydroxymethylfurfural. <i>ACS Catalysis</i> , 2019, 9, 11568-11578.	11.2	19
98	Suppressing ¹ H Spin Diffusion in Fast MAS Proton Detected Heteronuclear Correlation Solid-State NMR Experiments. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 105, 101636.	2.3	19
99	Enhanced Intersystem Crossing and Transient Electron Spin Polarization in a Photoexcited Pentacene- ³ -Trityl Radical. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6068-6075.	2.5	19
100	Controlled Grafting Synthesis of Silica-Supported Boron for Oxidative Dehydrogenation Catalysis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12636-12649.	3.1	19
101	Chemical and Electrochemical Lithiation of van der Waals Tetrel-Arsenides. <i>Chemistry - A European Journal</i> , 2019, 25, 6392-6401.	3.3	17
102	One- and Two-Dimensional High-Resolution NMR from Flat Surfaces. <i>ACS Central Science</i> , 2019, 5, 515-523.	11.3	17
103	Highly Selective Carbon-Supported Boron for Oxidative Dehydrogenation of Propane. <i>ChemCatChem</i> , 2021, 13, 3611-3618.	3.7	17
104	Investigating the Microstructure of Poly(cyclosilane) by ²⁹ Si Solid-State NMR Spectroscopy and DFT Calculations. <i>Chemistry of Materials</i> , 2019, 31, 9168-9178.	6.7	16
105	Zwitterionic Trivalent (Alkyl)lanthanide Complexes in Ziegler-Type Butadiene Polymerization. <i>ACS Catalysis</i> , 2019, 9, 827-838.	11.2	16
106	Elucidating the Location of Cd ²⁺ in Post-synthetically Treated InP Quantum Dots Using Dynamic Nuclear Polarization ³¹ P and ¹¹³ Cd Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2956-2965.	3.1	16
107	Expanding the α -V Phase Space: Soft Synthesis of Polytypic Ternary and Binary Zinc Antimonides. <i>Chemistry of Materials</i> , 2018, 30, 6173-6182.	6.7	15
108	Modulating Reactivity and Selectivity of 2-Pyrone-Derived Bicyclic Lactones through Choice of Catalyst and Solvent. <i>ACS Catalysis</i> , 2018, 8, 2450-2463.	11.2	14

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109	Ambient synthesis of nanomaterials by <i>in situ</i> heterogeneous metal/ligand reactions. <i>Nanoscale</i> , 2019, 11, 14060-14069.	5.6	14
110	Synthesis of Interface-Driven Tunable Bandgap Metal Oxides. , 2020, 2, 1211-1217.		14
111	Open-Resonance-Assisted Hydrogen Bonds and Competing Quasiaromaticity. <i>Journal of Organic Chemistry</i> , 2018, 83, 9850-9857.	3.2	13
112	¹³ C Surface Contrast™ NMR Reveals Non-Innocent Role of Support in Pd/CeO ₂ Catalyzed Phenol Hydrogenation. <i>ChemCatChem</i> , 2020, 12, 4160-4166.	3.7	13
113	Magic angle spinning dynamic nuclear polarization solid-state NMR spectroscopy of ¹³ C-irradiated molecular organic solids. <i>Solid State Nuclear Magnetic Resonance</i> , 2022, 119, 101785.	2.3	13
114	β-MWW Zeolite: The Case Against Single-Site Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 6608-6612.	2.0	12
115	A Heterogeneous Palladium Catalyst for the Polymerization of Olefins Prepared by Halide Abstraction Using Surface R ₃ Si ⁺ Species. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	12
116	Measurement of ¹⁴ N quadrupole couplings in biomolecular solids using indirect-detection ¹⁴ N solid-state NMR with DNP. <i>Chemical Communications</i> , 2017, 53, 12116-12119.	4.1	11
117	Solvent-Solid Interface of Acid Catalysts Studied by High Resolution MAS NMR. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17226-17234.	3.1	11
118	Intermetallic Nanocatalysts from Heterobimetallic Group 10-14 Pyridine-2-thiolate Precursors. <i>Organometallics</i> , 2020, 39, 1092-1104.	2.3	11
119	Hybrid quantum-classical simulations of magic angle spinning dynamic nuclear polarization in very large spin systems. <i>Journal of Chemical Physics</i> , 2022, 156, 124112.	3.0	10
120	Understanding the Synthesis of Supported Vanadium Oxide Catalysts Using Chemical Grafting. <i>Chemistry - A European Journal</i> , 2020, 26, 1052-1063.	3.3	9
121	Double echo symmetry-based REDOR and RESPDOR pulse sequences for proton detected measurements of heteronuclear dipolar coupling constants. <i>Journal of Magnetic Resonance</i> , 2022, 336, 107147.	2.1	9
122	Synthesis of SrTiO ₃ and Al-doped SrTiO ₃ via the deep eutectic solvent route. <i>Materials Advances</i> , 2022, 3, 4736-4747.	5.4	9
123	Alkaline-Earth Chalcogenide Nanocrystals: Solution-Phase Synthesis, Surface Chemistry, and Stability. <i>ACS Nano</i> , 2022, 16, 12024-12035.	14.6	8
124	Supported two- and three-dimensional vanadium oxide species on the surface of ¹² C-SiC. <i>Catalysis Science and Technology</i> , 2017, 7, 3707-3714.	4.1	7
125	Unprecedented generation of 3D heterostructures by mechanochemical disassembly and re-ordering of incommensurate metal chalcogenides. <i>Nature Communications</i> , 2020, 11, 3005.	12.8	7
126	Lithium nickel borides: evolution of [NiB] layers driven by Li pressure. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1675-1685.	6.0	7

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127	Ba ₆ (Cu _x Z _y)Sn ₄ S ₁₆ (Z = Mg, Tj ETQq1 1 0.784314 rgB)	4.0	7
	Inorganic Chemistry, 2022, 61, 2640-2651.		
128	A Heterogeneous Palladium Catalyst for the Polymerization of Olefins Prepared by Halide Abstraction Using Surface R ₃ Si ⁺ Species. Angewandte Chemie, 2022, 134, .	2.0	7
129	Multinuclear Solid-State NMR Studies of Polymer-Supported Scandium Triflate Catalysts. Journal of Physical Chemistry C, 2014, 118, 22649-22662.	3.1	6
130	Add a Pinch of Tetrel: The Transformation of a Centrosymmetric Metal into a Nonsymmorphic and Chiral Semiconductor. Chemistry - A European Journal, 2022, 28, .	3.3	6
131	Understanding and Promoting Molecular Interactions and Charge Transfer in Dye-Mediated Hybrid Photovoltaic Materials. Journal of Physical Chemistry C, 2014, 118, 25374-25391.	3.1	5
132	Computationally Driven Discovery of a Family of Layered LiNiB Polymorphs. Angewandte Chemie, 2019, 131, 16002-16009.	2.0	5
133	Atomic-Level Structure of Mesoporous Hexagonal Boron Nitride Determined by High-Resolution Solid-State Multinuclear Magnetic Resonance Spectroscopy and Density Functional Theory Calculations. Chemistry of Materials, 0, , .	6.7	5
134	Rare earth arylsilazido compounds with inequivalent secondary interactions. Chemical Communications, 2018, 54, 7318-7321.	4.1	4
135	Ternary ACd ₄ P ₃ (A = Na, K) Nanostructures via a Hydride Solution-Phase Route. ACS Materials Au, 0, , .	6.0	4
136	Hydrogenation/Hydrodeoxygenation Selectivity Modulation by Cometal Addition to Palladium on Carbon-Coated Supports. ACS Sustainable Chemistry and Engineering, 2022, 10, 7759-7771.	6.7	4
137	Path Less Traveled: A Contemporary Twist on Synthesis and Traditional Structure Solution of Metastable LiNi ₁₂ B ₈ . ACS Materials Au, 0, , .	6.0	3
138	Dipolar Heteronuclear Correlation Solid-State NMR Experiments between Half-Integer Quadrupolar Nuclei: The Case of ¹¹ Bâ€“ ¹⁷ O. Journal of Physical Chemistry C, 2022, 126, 11652-11666.	3.1	3
139	Comment on "Chirality-Induced Electron Spin Polarization and Enantiospecific Response in Solid-State Cross-Polarization Nuclear Magnetic Resonance" ACS Nano, 2019, 13, 6130-6132.	14.6	2
140	Ancillary Steric Effects on the Activation of SiH Bonds in Arylsilazido Rare-Earth Compounds. Organometallics, 2021, 40, 1654-1669.	2.3	2
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