

Gillian R Goward

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Boosting Solid-State Diffusivity and Conductivity in Lithium Superionic Argyrodites by Halide Substitution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8681-8686.	7.2	325
2	Lithium Polyacrylate (LiPAA) as an Advanced Binder and a Passivating Agent for High-Voltage Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1501008.	10.2	190
3	Direct Measurement of Surface Termination Groups and Their Connectivity in the 2D MXene V_2CT_x Using NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13713-13720.	1.5	169
4	High-Resolution Solid-State NMR Studies of Imidazole-Based Proton Conductors: Structure Motifs and Chemical Exchange from ^1H NMR. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9322-9334.	1.2	164
5	Impact of Lithium Bis(oxalate)borate Electrolyte Additive on the Performance of High-Voltage Spinel/Graphite Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22603-22612.	1.5	159
6	The true crystal structure of Li_7M_4 (M=Ge, Sn, Pb) – revised from Li_{22}M_5 . <i>Journal of Alloys and Compounds</i> , 2001, 329, 82-91.	2.8	125
7	^7Li NMR and Two-Dimensional Exchange Study of Lithium Dynamics in Monoclinic $\text{Li}_3\text{V}_2(\text{PO}_4)_3$. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7171-7177.	1.2	122
8	Poly(pyrrole) and poly(thiophene)/vanadium oxide interleaved nanocomposites: positive electrodes for lithium batteries. <i>Electrochimica Acta</i> , 1998, 43, 1307-1313.	2.6	120
9	Benzoxazine Oligomers: Evidence for a Helical Structure from Solid-State NMR Spectroscopy and DFT-Based Dynamics and Chemical Shift Calculations. <i>Journal of the American Chemical Society</i> , 2003, 125, 5792-5800.	6.6	116
10	Solid-State NMR Study of Two Classic Proton Conducting Polymers: Nafion and Sulfonated Poly(ether) Tj ETQq0 0,0 rgBT / Overlock 10	2.2	112
11	Structure and Electrochemistry of Two-Electron Redox Couples in Lithium Metal Fluorophosphates Based on the Tavorite Structure. <i>Chemistry of Materials</i> , 2011, 23, 5138-5148.	3.2	107
12	Proton Dynamics of Nafion and Nafion/ SiO_2 Composites by Solid State NMR and Pulse Field Gradient NMR. <i>Macromolecules</i> , 2007, 40, 1529-1537.	2.2	97
13	^6Li NMR Studies of Cation Disorder and Transition Metal Ordering in $\text{Li}[\text{Ni}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}]\text{O}_2$ Using Ultrafast Magic Angle Spinning. <i>Chemistry of Materials</i> , 2005, 17, 6560-6566.	3.2	95
14	Monitoring the Electrochemical Processes in the Lithium-Air Battery by Solid State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26929-26939.	1.5	92
15	Visualization of Steady-State Ionic Concentration Profiles Formed in Electrolytes during Li-Ion Battery Operation and Determination of Mass-Transport Properties by <i>in Situ</i> Magnetic Resonance Imaging. <i>Journal of the American Chemical Society</i> , 2016, 138, 7992-7999.	6.6	86
16	Detection of Electrochemical Reaction Products from the Sodium-Oxygen Cell with Solid-State ^{23}Na NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 595-598.	6.6	81
17	Direct Detection of Discharge Products in Lithium-Air Batteries by Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8560-8563.	7.2	75
18	On the Nature of Li Insertion in Tin Composite Oxide Glasses. <i>Electrochemical and Solid-State Letters</i> , 1999, 2, 367.	2.2	71

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19	Accurate Characterization of Ion Transport Properties in Binary Symmetric Electrolytes Using In Situ NMR Imaging and Inverse Modeling. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12238-12248.	1.2	71
20	Site Occupation of Ga and Al in Stabilized Cubic $\text{Li}_3\text{Ga}_x\text{Al}_y\text{La}_3\text{Zr}_2\text{O}_{12}$ Garnets As Deduced from ^{27}Al and ^{71}Ga MAS NMR at Ultrahigh Magnetic Fields. <i>Chemistry of Materials</i> , 2015, 27, 3135-3142.	3.2	65
21	Study of Lithium Dynamics in Monoclinic $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$ using ^6Li VT and 2D Exchange MAS NMR Spectroscopy. <i>Chemistry of Materials</i> , 2010, 22, 769-775.	3.2	62
22	Influence of Aliovalent Cation Substitution and Mechanical Compression on Li-Ion Conductivity and Diffusivity in Argyrodite Solid Electrolytes. <i>Chemistry of Materials</i> , 2021, 33, 146-157.	3.2	62
23	Layered Lithium Vanadium Fluorophosphate, $\text{Li}_5\text{V}(\text{PO}_4)_2\text{F}_2$: A 4 V Class Positive Electrode Material for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2008, 20, 4240-4248.	3.2	61
24	Three-dimensional investigation of cycling-induced microstructural changes in lithium-ion battery cathodes using focused ion beam/scanning electron microscopy. <i>Journal of Power Sources</i> , 2016, 306, 300-308.	4.0	60
25	Slice-Selective NMR Diffusion Measurements: A Robust and Reliable Tool for In Situ Characterization of Ion-Transport Properties in Lithium-Ion Battery Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3940-3944.	2.1	59
26	In Situ Magic-Angle Spinning ^7Li NMR Analysis of a Full Electrochemical Lithium-Ion Battery Using a Jelly Roll Cell Design. <i>Journal of the American Chemical Society</i> , 2019, 141, 13758-13761.	6.6	56
27	Ex Situ ^{23}Na Solid-State NMR Reveals the Local Na-Ion Distribution in Carbon-Coated $\text{Na}_2\text{FePO}_4\text{F}$ during Electrochemical Cycling. <i>Chemistry of Materials</i> , 2016, 28, 7645-7656.	3.2	54
28	Electrochemical and multinuclear solid-state NMR studies of tin composite oxide glasses as anodes for Li ion batteries. <i>Journal of Materials Chemistry</i> , 2000, 10, 1241-1249.	6.7	53
29	Polymer-Functionalized Carbon Nanotubes Investigated by Solid-State Nuclear Magnetic Resonance and Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11412-11418.	1.2	52
30	Unraveling the Rapid Performance Decay of Layered High-Energy Cathodes: From Nanoscale Degradation to Drastic Bulk Evolution. <i>ACS Nano</i> , 2018, 12, 2708-2718.	7.3	52
31	Investigation of an $\text{Ni}_2^{1/2}\text{i}_2^{1/2}\text{H}$ hydrogen bond in a solid benzoxazine dimer by ^1H - ^{15}N NMR correlation techniques under fast magic-angle spinning. <i>Magnetic Resonance in Chemistry</i> , 2001, 39, S5-S17.	1.1	51
32	Spatially resolved surface valence gradient and structural transformation of lithium transition metal oxides in lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29064-29075.	1.3	51
33	A Lithium Oxythioborosilicate Solid Electrolyte Glass with Superionic Conductivity. <i>Advanced Energy Materials</i> , 2020, 10, 1902783.	10.2	50
34	Operando Mapping of Li Concentration Profiles and Phase Transformations in Graphite Electrodes by Magnetic Resonance Imaging and Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21784-21791.	1.5	47
35	Solid State NMR Spectroscopic Investigations of Model Compounds for Imidazole-Based Proton Conductors. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18500-18508.	1.2	46
36	Determination of Mass Transfer Parameters and Ionic Association of LiPF_6 : Organic Carbonates Solutions. <i>Journal of the Electrochemical Society</i> , 2017, 164, A912-A916.	1.3	46

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37	NMR chemical shifts in periodic systems from first principles. <i>Computer Physics Communications</i> , 2002, 147, 707-710.	3.0	45
38	Boosting Solid-State Diffusivity and Conductivity in Lithium Superionic Argyrodites by Halide Substitution. <i>Angewandte Chemie</i> , 2019, 131, 8773-8778.	1.6	44
39	Study of Imidazole-Based Proton-Conducting Composite Materials Using Solid-State NMR. <i>Chemistry of Materials</i> , 2005, 17, 1605-1612.	3.2	40
40	Phosphorus and Nitrogen Centers in Doped Graphene and Carbon Nanotubes Analyzed through Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6593-6601.	1.5	40
41	Manganese sequestration and improved high-temperature cycling of Li-ion batteries by polymeric aza-15-crown-5. <i>Journal of Power Sources</i> , 2014, 272, 1134-1141.	4.0	39
42	Reorientation phenomena in imidazolium methyl sulfonate as probed by advanced solid-state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2003, 24, 150-162.	1.5	37
43	How to Control the Discharge Products in Na ⁺ O ₂ Cells: Direct Evidence toward the Role of Functional Groups at the Air Electrode Surface. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4794-4800.	2.1	36
44	Unraveling the Complex Hydrogen Bonding of a Dual-Functionality Proton Conductor Using Ultrafast Magic Angle Spinning NMR. <i>Chemistry of Materials</i> , 2006, 18, 4747-4754.	3.2	35
45	⁶ Li 1D EXSY NMR Spectroscopy: A New Tool for Studying Lithium Dynamics in Paramagnetic Materials Applied to Monoclinic Li ₂ VPO ₄ F. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22603-22608.	1.5	32
46	Manganese Sequestration and Li-Ion Batteries Durability Enhancement by Polymeric 18-Crown-6 Ethers. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1213-A1217.	1.3	31
47	⁶ Li{ ³¹ P} Rotational-Echo, Double-Resonance Studies of Lithium Ion Site Dynamics in Li ₃ V ₂ (PO ₄) ₃ . <i>Journal of Physical Chemistry C</i> , 2008, 112, 2215-2221.	1.5	30
48	Influence of particle size on solid solution formation and phase interfaces in Li _{0.5} FePO ₄ revealed by ³¹ P and ⁷ Li solid state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5171.	1.3	29
49	Combined NMR and molecular dynamics modeling study of transport properties in sulfonamide based deep eutectic lithium electrolytes: LiTFSI based binary systems. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6657-6667.	1.3	29
50	NMR chemical shifts in proton conducting crystals from first principles. <i>Computational and Theoretical Chemistry</i> , 2003, 625, 283-288.	1.5	28
51	A Search for Low-Irreversible Capacity and High-Reversible Capacity Positive Electrode Materials in the Li ⁺ Ni ²⁺ Mn ²⁺ Co Pseudoquaternary System. <i>Chemistry of Materials</i> , 2016, 28, 55-66.	3.2	28
52	The Challenge of Paramagnetism in Two-Dimensional ^{6,7} Li Exchange NMR. <i>Applied Magnetic Resonance</i> , 2007, 32, 565-581.	0.6	27
53	⁷ Li and ²⁹ Si NMR Enabled by High-Density Cellulose-Based Electrodes in the Lithiation Process in Silicon and Silicon Monoxide Anodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11362-11368.	1.5	27
54	A Solid-State NMR Study of Hydrogen-Bonding Networks and Ion Dynamics in Benzimidazole Salts. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5602-5609.	1.2	26

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55	Structure and Dynamics in Functionalized Graphene Oxides through Solid-State NMR. <i>Chemistry of Materials</i> , 2016, 28, 360-367.	3.2	25
56	The proton dynamics of imidazole methylphosphonate: an example of cooperative ionic conductivity. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 263-272.	1.3	24
57	¹ H Solid-State NMR Study of Nanothin Nafion Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1280-1285.	1.5	24
58	Mapping of Lithium-Ion Battery Electrolyte Transport Properties and Limiting Currents with In Situ MRI. <i>Journal of the Electrochemical Society</i> , 2020, 167, 140518.	1.3	24
59	Electrochemical Changes in Lithium-Battery Electrodes Studied Using ⁷ Li NMR and Enhanced ¹³ C NMR of Graphene and Graphitic Carbons. <i>Chemistry of Materials</i> , 2015, 27, 3299-3305.	3.2	22
60	Review—Multifunctional Separators: A Promising Approach for Improving the Durability and Performance of Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5369-A5377.	1.3	22
61	Studies of lithium ion dynamics in paramagnetic cathode materials using ⁶ Li 1D selective inversion methods. <i>Solid State Nuclear Magnetic Resonance</i> , 2012, 42, 26-32.	1.5	21
62	Structural analysis of lanthanum-containing battery materials using ¹³⁹ La solid-state NMR. <i>Canadian Journal of Chemistry</i> , 2011, 89, 1105-1117.	0.6	20
63	Elucidating the Time Scale and Geometry of Phosphate and Phosphonate Rotation in Solid Acid Electrolytes Using Multinuclear NMR. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6064-6072.	1.5	20
64	Solid State NMR Study of Boron Coordination Environments in Silicone Boronate (SiBA) Polymers. <i>Macromolecules</i> , 2019, 52, 1055-1064.	2.2	20
65	Influences of casting solvents on proton dynamics within sulfonated polyether ether ketones (S-PEEKs) studied using high-resolution solid-state NMR. <i>Journal of Membrane Science</i> , 2008, 319, 238-243.	4.1	19
66	Multi-Temperature <i>in Situ</i> Magnetic Resonance Imaging of Polarization and Salt Precipitation in Lithium-Ion Battery Electrolytes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20704-20713.	1.5	19
67	X-ray Absorption and Solid-State NMR Spectroscopy of Fluorinated Proton Conducting Polymers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3233-3244.	1.5	18
68	Solid-State ² H NMR Determination of Poly(aniline) Conformation Within a MoO ₃ Nanocomposite. <i>Advanced Materials</i> , 1998, 10, 449-452.	11.1	17
69	Structure Solution of Metal-Oxide Li Battery Cathodes from Simulated Annealing and Lithium NMR Spectroscopy. <i>Chemistry of Materials</i> , 2017, 29, 5550-5557.	3.2	17
70	Incorporating Dendrite Growth into Continuum Models of Electrolytes: Insights from NMR Measurements and Inverse Modeling. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1591-A1602.	1.3	17
71	Investigations of Proton Conduction in the Monoclinic Phase of RbH ₂ PO ₄ Using Multinuclear Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17950-17957.	1.5	16
72	The Effect of Ionic Aggregates on the Transport of Charged Species in Lithium Electrolyte Solutions. <i>Journal of the Electrochemical Society</i> , 2018, 165, H561-H567.	1.3	15

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73	Combining density functional theory and ^{23}Na NMR to characterize $\text{Na}_2\text{FePO}_4\text{F}$ as a potential sodium ion battery cathode. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 103, 1-8.	1.5	15
74	Bayesian uncertainty quantification in inverse modeling of electrochemical systems. <i>Journal of Computational Chemistry</i> , 2019, 40, 740-752.	1.5	15
75	Synthesis of $\text{Li}_4\text{V}(\text{PO}_4)_2\text{F}_2$ and $^6,7\text{Li}$ NMR studies of its lithium ion dynamics. <i>Journal of Materials Chemistry</i> , 2010, 20, 4340.	6.7	14
76	An Improved Understanding of Li^{+} Hopping Pathways and Rates in $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$ Using Selective Inversion ^6Li NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24181-24188.	1.5	14
77	A parallel-plate RF probe and battery cartridge for ^7Li ion battery studies. <i>Journal of Magnetic Resonance</i> , 2021, 325, 106943.	1.2	13
78	Solid-state NMR studies of hydrogen bonding networks and proton transport pathways based on anion and cation dynamics. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, S135-S143.	1.1	12
79	Structural Complexity and Electrical Properties of the Garnet-Type Structure $\text{LaLi}_0.5\text{Fe}_0.2\text{O}_2.09$ Studied by ^7Li and ^{139}La Solid State NMR Spectroscopy and Impedance Spectroscopy. <i>Chemistry of Materials</i> , 2011, 23, 3105-3113.	3.2	12
80	The use of $^6\text{Li}\{^7\text{Li}\}$ -REDOR NMR spectroscopy to compare the ionic conductivities of solid-state lithium ion electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2515-2526.	1.3	12
81	Proton dynamics in sulfonated ionic salt composites: Alternative membrane materials for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2014, 268, 853-860.	4.0	12
82	Real-Time Quantitative Detection of Lithium Plating by In Situ NMR Using a Parallel-Plate Resonator. <i>Journal of the Electrochemical Society</i> , 2020, 167, 130514.	1.3	12
83	Evaluation of the Stability of Trimethyl Phosphate as a Li^+O_2 Battery Electrolyte via Multinuclear Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26840-26848.	1.5	11
84	Transient lithium metal plating on graphite: Operando ^7Li nuclear magnetic resonance investigation of a battery cell using a novel RF probe. <i>Carbon</i> , 2022, 189, 377-385.	5.4	11
85	Investigations of the Phase Transition and Proton Dynamics in Rubidium Methane Phosphonate Studied by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5221-5231.	1.5	10
86	Differentiating Lithium Ion Hopping Rates in Vanadium Phosphate versus Vanadium Fluorophosphate Structures Using ^6Li Selective Inversion NMR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7981-7992.	1.5	10
87	Environmental In Situ X-ray Absorption Spectroscopy Evaluation of Electrode Materials for Rechargeable Lithium-Oxygen Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12617-12624.	1.5	10
88	Probing Hydrogen Bonding and Proton Mobility in Dicyanoimidazole Monomers and Polymers. <i>Macromolecules</i> , 2005, 38, 416-421.	2.2	9
89	Probing Proton Mobility in Polyvinazene and its Sulfonated Derivatives Using ^1H Solid-State NMR. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2076-2084.	1.1	9
90	NMR Determination of the Relative Binding Affinity of Crown Ethers for Manganese Cations in Aprotic Nonaqueous Lithium Electrolyte Solutions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3677-3683.	1.5	9

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91	Elucidating the Li-Ion Battery Performance Benefits Enabled by Multifunctional Separators. ACS Applied Energy Materials, 2018, 1, 1878-1882.	2.5	9
92	Dynamics of benzimidazole ethylphosphonate: a solid-state NMR study of anhydrous composite proton-conducting electrolytes. Physical Chemistry Chemical Physics, 2013, 15, 17983.	1.3	8
93	¹ H- ¹ H Double Quantum NMR Investigation of Proton Dynamics in Solid Acids. Journal of Physical Chemistry C, 2016, 120, 19961-19969.	1.5	8
94	Quantifying Site-Specific Proton Dynamics in Phosphate Solid Acids by ¹ H Double Quantum NMR Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 25641-25650.	1.5	8
95	Synthesis of Siliconized Photosensitizers for Use in O ₂ -Generating Silicone Elastomers: An Electron Paramagnetic Resonance Study. Macromolecules, 2021, 54, 4333-4341.	2.2	8
96	Concentration Dependent Solution Structure and Transport Mechanism in High Voltage LiTFSI-Adiponitrile Electrolytes. Journal of the Electrochemical Society, 2020, 167, 160532.	1.3	8
97	Solid-state NMR studies of chemical exchange in ion conductors for alternative energy applications. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2016, 45A, .	0.2	7
98	¹⁹ F Double Quantum NMR Spectroscopy: A Tool for Probing Dynamics in Proton-Conducting Fluorinated Polymer Materials. Macromolecules, 2016, 49, 7331-7339.	2.2	7
99	Original Layered OP4-(Li,Na)CoO ₂ Phase: Insights on Its Structure, Electronic Structure, and Dynamics from Solid State NMR. Inorganic Chemistry, 2020, 59, 5339-5349.	1.9	7
100	Adaptive Smooth Variable Structure Filter Strategy for State Estimation of Electric Vehicle Batteries. Energies, 2021, 14, 8560.	1.6	7
101	^{6,7} Li NMR study of ion mobility on the molecular scale in lithated imidazole complexes. Solid State Ionics, 2006, 177, 1405-1411.	1.3	6
102	Discerning models of phase transformations in porous graphite electrodes: Insights from inverse modelling based on MRI measurements. Electrochimica Acta, 2020, 349, 136290.	2.6	6
103	Optimization of a parallel-plate RF probe for high resolution thin film imaging. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2018, 47A, .	0.2	5
104	Site-Specific Proton Dynamics in Indium-Doped Tin Pyrophosphate. Journal of Physical Chemistry C, 2020, 124, 28407-28416.	1.5	5
105	Editorial. Solid State Nuclear Magnetic Resonance, 2012, 42, 1.	1.5	4
106	Correlation of Electrochemical Performance with Lithium Environments and Cation Dynamics in Li ₂ (Mn ¹⁺ Fe ^y)P ₂ O ₇ using ⁶ Li Solid-State NMR. Journal of Physical Chemistry C, 2015, 119, 16468-16474.	1.5	4
107	Ab initio structure determination of SrBi ₂ O ₉ by powder X-ray/neutron diffraction and NMR spectroscopy. Powder Diffraction, 2009, 24, 35-40.	0.4	3
108	Exact calculation of the response of a quadrupolar nucleus to radio frequency irradiation. Canadian Journal of Chemistry, 2011, 89, 764-769.	0.6	3

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109	Dynamics of Ag ⁺ Ions in RbAg ₄ I ₅ Probed Indirectly via ⁸⁷ Rb Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9558-9565.	1.5	3
110	Complete description of the interactions of a quadrupolar nucleus with a radiofrequency field. Implications for data fitting. <i>Solid State Nuclear Magnetic Resonance</i> , 2013, 53, 20-26.	1.5	3
111	Identification of electrochemical reaction products in lithium-oxygen cells with ⁷ Li nutation spectroscopy. <i>Canadian Journal of Chemistry</i> , 2015, 93, 976-982.	0.6	3
112	A magnetic resonance and electrochemical study of the role of polymer mobility in supporting hydrogen transport in perfluorosulfonic acid membranes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19098-19109.	1.3	3
113	Measurement and calculation of ¹³ C and ¹⁵ N NMR chemical-shift tensors of a push-pull ethylene. <i>Canadian Journal of Chemistry</i> , 2009, 87, 563-570.	0.6	2
114	The <i>JPC</i> Periodic Table. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5837-5848.	1.1	2
115	The <i>JPC</i> Periodic Table. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4051-4062.	2.1	2
116	Structure and Electronic Structure Evolution of P2-Na _x CoO ₂ Phases from X-ray Diffraction and ²³ Na Magic Angle Spinning Nuclear Magnetic Resonance. <i>Chemistry of Materials</i> , 2022, 34, 6431-6439.	3.2	2
117	The <i>JPC</i> Periodic Table. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5973-5984.	1.2	1
118	The <i>JPC</i> Periodic Table. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17063-17074.	1.5	1
119	A tribute to Alexander Davidson Bain: An NMR pioneer and mentor at McMaster University. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2016, 45A, e21418.	0.2	0