

Clare Grey

List of Publications by Year in descending order

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630
papers

52,441
citations

1040

113
h-index

2274

200
g-index

676
all docs

676
docs citations

676
times ranked

35921
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of Magnesium Vanadates as Potential Magnesium-ion Cathode Materials through an Ab-initio Guided Carbothermal Reduction Approach**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	6
2	Synthesis and Characterization of Magnesium Vanadates as Potential Magnesium-ion Cathode Materials through an Ab-initio Guided Carbothermal Reduction Approach**. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
3	Spatially Resolved Operando Synchrotron-Based X-Ray Diffraction Measurements of Ni-Rich Cathodes for Li-Ion Batteries. <i>Frontiers in Chemical Engineering</i> , 2022, 3, .	1.3	9
4	A solution-processable near-infrared thermally activated delayed fluorescent dye with a fused aromatic acceptor and aggregation induced emission behavior. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4831-4836.	2.7	9
5	<i>In situ</i> bulk magnetization measurements reveal the state of charge of redox flow batteries. <i>Chemical Communications</i> , 2022, 58, 1342-1345.	2.2	8
6	Pushing the limit of 3d transition metal-based layered oxides that use both cation and anion redox for energy storage. <i>Nature Reviews Materials</i> , 2022, 7, 522-540.	23.3	92
7	Cycle-Induced Interfacial Degradation and Transition-Metal Cross-Over in $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ Graphite Cells. <i>Chemistry of Materials</i> , 2022, 34, 2034-2048.	3.2	28
8	Electrolyte Reactivity at the Charged Ni-Rich Cathode Interface and Degradation in Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13206-13222.	4.0	45
9	Hollow-core optical fibre sensors for operando Raman spectroscopy investigation of Li-ion battery liquid electrolytes. <i>Nature Communications</i> , 2022, 13, 1651.	5.8	61
10	Effect of Lithiation upon the Shear Strength of NMC811 Single Crystals. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040511.	1.3	9
11	Importance of Superstructure in Stabilizing Oxygen Redox in $\text{P3Na}_{0.67}\text{Li}_{0.2}\text{Mn}_{0.8}\text{O}_2$. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	25
12	Sodium Borates: Expanding the Electrolyte Selection for Sodium-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	15
13	Single-Source Deposition of Mixed-Metal Oxide Films Containing Zirconium and 3d Transition Metals for (Photo)electrocatalytic Water Oxidation. <i>Inorganic Chemistry</i> , 2022, 61, 6223-6233.	1.9	4
14	Sodium Borates: Expanding the Electrolyte Selection for Sodium-ion Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	6
15	In situ electrochemical recombination of decomposed redox-active species in aqueous organic flow batteries. <i>Nature Chemistry</i> , 2022, 14, 1103-1109.	6.6	55
16	Two electrolyte decomposition pathways at nickel-rich cathode surfaces in lithium-ion batteries. <i>Energy and Environmental Science</i> , 2022, 15, 3416-3438.	15.6	65
17	Elucidating the Role of Antisolvents on the Surface Chemistry and Optoelectronic Properties of CsPbBr_3 Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2022, 144, 12102-12115.	6.6	31
18	Triarylaminates: Promising Candidates As Aqueous Organic Redox Flow Catholytes. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2046-2046.	0.0	0

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19	Beyond the Norm: Synthesis and Electrochemical Study of High Concentrated NaPF ₆ Electrolytes. ECS Meeting Abstracts, 2022, MA2022-01, 498-498.	0.0	1
20	An Exploration of Nitrogen-Rich Fused Heteroaromatic Quinones for Redox Flow Battery Applications. ECS Meeting Abstracts, 2022, MA2022-01, 2013-2013.	0.0	0
21	Two Electrolyte Decomposition Pathways at NMC Electrodes in Lithium-Ion Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 348-348.	0.0	1
22	Probing the Li Metal Solid Electrolyte Interphase Using a Stable Nitroxide Radical. ECS Meeting Abstracts, 2022, MA2022-01, 2399-2399.	0.0	0
23	Operando Optical Tracking of Single-Particle Ion Dynamics in Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 107-107.	0.0	0
24	Battery Degradation and Lifetime “ Studies within the Faraday Institution on NMC811/Graphite Full Cells. ECS Meeting Abstracts, 2022, MA2022-01, 341-341.	0.0	0
25	Investigating Transport through Separator Membranes in Aqueous Organic Redox Flow Batteries Using NMR Spectroscopy. ECS Meeting Abstracts, 2022, MA2022-01, 1995-1995.	0.0	0
26	Understanding Redox Reaction Mechanisms of a Flavin Mononucleotide By in Situ NMR and EPR Techniques. ECS Meeting Abstracts, 2022, MA2022-01, 2023-2023.	0.0	0
27	Preventing Degradation of NMC811 with Bimetallic Oxide Coatings. ECS Meeting Abstracts, 2022, MA2022-01, 364-364.	0.0	0
28	The Effect of Annealing on the Structure, Composition and Electrochemistry of NMC811 Coated with Al ₂ O ₃ Using an Alkoxide Precursor. ECS Meeting Abstracts, 2022, MA2022-01, 295-295.	0.0	0
29	Understanding the Behaviour of High-Nickel NMC Cathodes with Respect to the Vinylene Carbonate Additive. ECS Meeting Abstracts, 2022, MA2022-01, 332-332.	0.0	0
30	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. Chemistry of Materials, 2021, 33, 4-18.	3.2	104
31	Phase Behavior during Electrochemical Cycling of Ni-Rich Cathode Materials for Li-Ion Batteries. Advanced Energy Materials, 2021, 11, 2003404.	10.2	153
32	Sample Dependence of Magnetism in the Next-Generation Cathode Material LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ . Inorganic Chemistry, 2021, 60, 263-271.	1.9	6
33	Bulk fatigue induced by surface reconstruction in layered Ni-rich cathodes for Li-ion batteries. Nature Materials, 2021, 20, 84-92.	13.3	349
34	Revisiting metal fluorides as lithium-ion battery cathodes. Nature Materials, 2021, 20, 841-850.	13.3	109
35	High Rate Lithium Ion Battery with Niobium Tungsten Oxide Anode. Journal of the Electrochemical Society, 2021, 168, 010525.	1.3	23
36	Designing for conjugate addition: an amine functionalised quinone anolyte for redox flow batteries. Journal of Materials Chemistry A, 2021, 9, 15188-15198.	5.2	7

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37	Electrochemical Utilization of Iron IV in the $\text{Li}_{1.3}\text{Fe}_{0.4}\text{Nb}_{0.3}\text{O}_2$ Disordered Rocksalt Cathode. Batteries and Supercaps, 2021, 4, 771-777.	2.4	6
38	Probing and Interpreting the Porosity and Tortuosity Evolution of Li-O_2 Cathodes on Discharge through a Combined Experimental and Theoretical Approach. Journal of Physical Chemistry C, 2021, 125, 4955-4967.	1.5	11
39	2021 roadmap on lithium sulfur batteries. JPhys Energy, 2021, 3, 031501.	2.3	74
40	On the Solvation of Redox Mediators and Implications for their Reactivity in Li-Air Batteries. Journal of the Electrochemical Society, 2021, 168, 030529.	1.3	5
41	Anodic Stability of Electrolyte Solvents and Additives at the Ni-Rich NMC Cathode-Electrolyte Interface in Li-Ion Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 87-87.	0.0	0
42	Structural Evolution of Layered Manganese Oxysulfides during Reversible Electrochemical Lithium Insertion and Copper Extrusion. Chemistry of Materials, 2021, 33, 3989-4005.	3.2	3
43	Characterizing Nitrogen Sites in Nitrogen-Doped Reduced Graphene Oxide: A Combined Solid-State ^{15}N NMR, XPS, and DFT Approach. Journal of Physical Chemistry C, 2021, 125, 10558-10564.	1.5	10
44	Interfacial Degradation in NMC811-Graphite Batteries during Extended Cycling. ECS Meeting Abstracts, 2021, MA2021-01, 103-103.	0.0	0
45	Transition Metal Dissolution and Degradation in NMC811-Graphite Electrochemical Cells. Journal of the Electrochemical Society, 2021, 168, 060518.	1.3	42
46	Structural Origins of Voltage Hysteresis in the Na-Ion Cathode $\text{P}_2\text{Na}_{0.67}[\text{Mg}_{0.28}\text{Mn}_{0.72}]\text{O}_2$: A Combined Spectroscopic and Density Functional Theory Study. Chemistry of Materials, 2021, 33, 4890-4906.	3.2	24
47	Operando optical tracking of single-particle ion dynamics in batteries. Nature, 2021, 594, 522-528.	13.7	121
48	NMR studies of adsorption and diffusion in porous carbonaceous materials. Progress in Nuclear Magnetic Resonance Spectroscopy, 2021, 124-125, 57-84.	3.9	19
49	2021 roadmap for sodium-ion batteries. JPhys Energy, 2021, 3, 031503.	2.3	125
50	Toward an Understanding of SEI Formation and Lithium Plating on Copper in Anode-Free Batteries. Journal of Physical Chemistry C, 2021, 125, 16719-16732.	1.5	55
51	Tetrafluoroborate-Induced Reduction in Defect Density in Hybrid Perovskites through Halide Management. Advanced Materials, 2021, 33, e2102462.	11.1	24
52	The Complex Role of Aluminium Contamination in Nickel-Rich Layered Oxide Cathodes for Lithium-Ion Batteries. Batteries and Supercaps, 2021, 4, 1813-1820.	2.4	7
53	Direct observation of breathing phenomenon and phase transformation in Ni-rich cathode materials by in situ TEM. Microscopy and Microanalysis, 2021, 27, 1254-1255.	0.2	1
54	Endogenous ^{17}O Dynamic Nuclear Polarization of Gd-Doped CeO_2 from 100 to 370 K. Journal of Physical Chemistry C, 2021, 125, 18799-18809.	1.5	18

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55	CO ₂ Capture at Medium to High Temperature Using Solid Oxide-Based Sorbents: Fundamental Aspects, Mechanistic Insights, and Recent Advances. <i>Chemical Reviews</i> , 2021, 121, 12681-12745.	23.0	177
56	Formulation of Metal-Organic Framework-Based Drug Carriers by Controlled Coordination of Methoxy PEG Phosphate: Boosting Colloidal Stability and Redispersibility. <i>Journal of the American Chemical Society</i> , 2021, 143, 13557-13572.	6.6	88
57	Potentiometric MRI of a Superconcentrated Lithium Electrolyte: Testing the Irreversible Thermodynamics Approach. <i>ACS Energy Letters</i> , 2021, 6, 3086-3095.	8.8	33
58	Correlating Local Structure and Sodium Storage in Hard Carbon Anodes: Insights from Pair Distribution Function Analysis and Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2021, 143, 14274-14286.	6.6	66
59	NMR spectroscopy probes microstructure, dynamics and doping of metal halide perovskites. <i>Nature Reviews Chemistry</i> , 2021, 5, 624-645.	13.8	73
60	New Route to Battery Grade NaPF ₆ for Na-Ion Batteries: Expanding the Accessible Concentration. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24882-24887.	7.2	31
61	Mesoscopic simulations of the in situ NMR spectra of porous carbon based supercapacitors: electronic structure and adsorbent reorganisation effects. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15925-15934.	1.3	4
62	Coupled <i>In Situ</i> NMR and EPR Studies Reveal the Electron Transfer Rate and Electrolyte Decomposition in Redox Flow Batteries. <i>Journal of the American Chemical Society</i> , 2021, 143, 1885-1895.	6.6	64
63	Combined High-Resolution Solid-State ¹ H/ ¹³ C NMR Spectroscopy and ¹ H NMR Relaxometry for the Characterization of Kerogen Thermal Maturation. <i>Energy & Fuels</i> , 2021, 35, 1070-1079.	2.5	7
64	A Magic Angle Spinning Activated ¹⁷ O DNP Raser. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 345-349.	2.1	23
65	The influence of electrochemical cycling protocols on capacity loss in nickel-rich lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23582-23596.	5.2	17
66	Enhanced visible light absorption in layered Cs ₃ Bi ₂ Br ₉ through mixed-valence Sn(II)/Sn(IV) doping. <i>Chemical Science</i> , 2021, 12, 14686-14699.	3.7	21
67	Improved Description of Organic Matter in Shales by Enhanced Solid Fraction Detection with Low-Field ¹ H NMR Relaxometry. <i>Energy & Fuels</i> , 2021, 35, 18194-18209.	2.5	6
68	(Invited) Tracking Phase Transitions - from LCO to LNO - Via NCA and NMC. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 186-186.	0.0	0
69	Magnetic Resonance and Computational Studies on Crossover Reactions in Li-Air Batteries and Redox-Flow Batteries Using TEMPO. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 76-76.	0.0	0
70	Validating Concentrated Lithium-Ion Electrolyte Transport Models with in-Situ MRI. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 285-285.	0.0	0
71	The Complex Role of Aluminium Contamination in Nickel-Rich Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1783-1784.	2.4	0
72	Exploring the Role of Cluster Formation in UiO Family Hf Metal-Organic Frameworks with <i>In Situ</i> X-ray Pair Distribution Function Analysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 19668-19683.	6.6	24

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73	New Magnetic Resonance and Computational Methods to Study Crossover Reactions in Li-Air and Redox Flow Batteries Using TEMPO. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27520-27533.	1.5	9
74	Stabilized tilted-octahedra halide perovskites inhibit local formation of performance-limiting phases. <i>Science</i> , 2021, 374, 1598-1605.	6.0	115
75	Hydrophilic microporous membranes for selective ion separation and flow-battery energy storage. <i>Nature Materials</i> , 2020, 19, 195-202.	13.3	237
76	Optofluidic Hollow-Core Fibres as Raman Sensors for Li-ion Battery Chemistry. , 2020, , .		2
77	Toward Reversible and Moisture-Tolerant Aprotic Lithium-Air Batteries. <i>Joule</i> , 2020, 4, 2501-2520.	11.7	37
78	Under Pressure: Mechanochemical Effects on Structure and Ion Conduction in the Sodium-Ion Solid Electrolyte Na ₃ PS ₄ . <i>Journal of the American Chemical Society</i> , 2020, 142, 18422-18436.	6.6	58
79	Electrolyte Oxidation Pathways in Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 15058-15074.	6.6	160
80	Noninvasive <i>In Situ</i> NMR Study of “Dead Lithium” Formation and Lithium Corrosion in Full-Cell Lithium Metal Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 20814-20827.	6.6	160
81	Co ₃ O ₄ -Catalyzed LiOH Chemistry in Li ⁺ O ₂ Batteries. <i>ACS Energy Letters</i> , 2020, 5, 3681-3691.	8.8	37
82	Effect of Anode Slippage on Cathode Cutoff Potential and Degradation Mechanisms in Ni-Rich Li-Ion Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100253.	2.8	42
83	A revised mechanistic model for sodium insertion in hard carbons. <i>Energy and Environmental Science</i> , 2020, 13, 3469-3479.	15.6	195
84	Strengthening the Magnetic Interactions in Pseudobinary First-Row Transition Metal Thiocyanates, M(NCS) ₂ . <i>Inorganic Chemistry</i> , 2020, 59, 11627-11639.	1.9	14
85	Hardwood <i>versus</i> softwood Kraft lignin “ precursor-product relationships in the manufacture of porous carbon nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23543-23554.	5.2	28
86	Exploring Cation–Anion Redox Processes in One-Dimensional Linear Chain Vanadium Tetrasulfide Rechargeable Magnesium Ion Cathodes. <i>Journal of the American Chemical Society</i> , 2020, 142, 19588-19601.	6.6	44
87	Vanadyl Phosphates A _x VOPO ₄ (A = Li, Na, K) as Multielectron Cathodes for Alkali-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2002638.	10.2	26
88	Bulk and Surface Chemistry of the Niobium MAX and MXene Phases from Multinuclear Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 18924-18935.	6.6	35
89	Operando NMR of NMC811/Graphite Lithium-Ion Batteries: Structure, Dynamics, and Lithium Metal Deposition. <i>Journal of the American Chemical Society</i> , 2020, 142, 17447-17456.	6.6	79
90	Revealing the Structure and Oxygen Transport at Interfaces in Complex Oxide Heterostructures via ¹⁷ O NMR Spectroscopy. <i>Chemistry of Materials</i> , 2020, 32, 7921-7931.	3.2	5

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91	Prospects for lithium-ion batteries and beyond—a 2030 vision. <i>Nature Communications</i> , 2020, 11, 6279.	5.8	369
92	Selective NMR observation of the SEI–metal interface by dynamic nuclear polarisation from lithium metal. <i>Nature Communications</i> , 2020, 11, 2224.	5.8	91
93	Stable Hexylphosphonate-Capped Blue-Emitting Quantum-Confined CsPbBr ₃ Nanoplatelets. <i>ACS Energy Letters</i> , 2020, 5, 1900-1907.	8.8	82
94	Cesium Substitution Disrupts Concerted Cation Dynamics in Formamidinium Hybrid Perovskites. <i>Chemistry of Materials</i> , 2020, 32, 6266-6277.	3.2	38
95	Interactions of Oxide Surfaces with Water Revealed with Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 11173-11182.	6.6	24
96	Establishing Ultralow Activation Energies for Lithium Transport in Garnet Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32806-32816.	4.0	45
97	Effects of Atmospheric Gases on Li Metal Cyclability and Solid-Electrolyte Interphase Formation. <i>ACS Energy Letters</i> , 2020, 5, 1088-1094.	8.8	29
98	Intrinsic Kinetic Limitations in Substituted Lithium-Layered Transition-Metal Oxide Electrodes. <i>Journal of the American Chemical Society</i> , 2020, 142, 7001-7011.	6.6	69
99	Local Structure and Dynamics in Methylammonium, Formamidinium, and Cesium Tin(II) Mixed-Halide Perovskites from ¹¹⁹ Sn Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2020, 142, 7813-7826.	6.6	66
100	Local Distortions and Dynamics in Hydrated Y-Doped BaZrO ₃ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 16689-16701.	1.5	12
101	Direct Imaging of Correlated Defect Nanodomains in a Metal–Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 13081-13089.	6.6	65
102	Investigating the effect of a fluoroethylene carbonate additive on lithium deposition and the solid electrolyte interphase in lithium metal batteries using <i>in situ</i> NMR spectroscopy. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14975-14992.	5.2	57
103	Evolution of Structure in the Incommensurate Modulated LaNb _{1-x} W _x O _{4+x/2} (x = 0.04–0.16) Oxide 3.2 Ion Conductors. <i>Chemistry of Materials</i> , 2020, 32, 2292-2303.		7
104	In situ NMR metrology reveals reaction mechanisms in redox flow batteries. <i>Nature</i> , 2020, 579, 224-228.	13.7	132
105	Evolution of lithium ordering with (de)-lithiation in $\hat{\Gamma}^2$ -LiVOPO ₄ : insights through solid-state NMR and first principles DFT calculations. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5546-5557.	5.2	13
106	Current Challenges and Routes Forward for Nonaqueous Lithium–Air Batteries. <i>Chemical Reviews</i> , 2020, 120, 6558-6625.	23.0	356
107	Al/Ga-Doped Li ₇ La ₃ Zr ₂ O ₁₂ Garnets as Li-Ion Solid-State Battery Electrolytes: Atomistic Insights into Local Coordination Environments and Their Influence on ¹⁷ O, ²⁷ Al, and ⁷¹ Ga NMR Spectra. <i>Journal of the American Chemical Society</i> , 2020, 142, 3132-3148.	6.6	51
108	The structures of ordered defects in thiocyanate analogues of Prussian Blue. <i>Chemical Science</i> , 2020, 11, 4430-4438.	3.7	10

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109	Lithium Diffusion in Niobium Tungsten Oxide Shear Structures. Chemistry of Materials, 2020, 32, 3980-3989.	3.2	54
110	Superionic Lithium Intercalation through $2 \text{ \AA} \times 2 \text{ nm}^2$ Columns in the Crystallographic Shear Phase $\text{Nb}_{18}\text{W}_8\text{O}_{69}$. Chemistry of Materials, 2020, 32, 3860-3868.	3.2	41
111	Origins of Capacity Fade and Material Degradation in Ni-Rich NMC Li-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 3724-3724.	0.0	0
112	Towards an Understanding of the SEI Formation and Lithium Preferential Plating on Copper. ECS Meeting Abstracts, 2020, MA2020-02, 3773-3773.	0.0	0
113	The Effect of Anode Slippage on Cathode Cutoff Potential and Degradation Mechanisms in Ni-Rich Li-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 3735-3735.	0.0	0
114	Operando NMR of NMC811/Graphite Lithium-Ion Batteries: Structure, Dynamics, and Lithium Metal Deposition. ECS Meeting Abstracts, 2020, MA2020-02, 3172-3172.	0.0	0
115	Solution NMR Studies of Electrolyte Decomposition Pathways. ECS Meeting Abstracts, 2020, MA2020-02, 783-783.	0.0	0
116	Towards Moisture Tolerant Aprotic Lithium-Air Batteries Via Reversibly Cycling LiOH. ECS Meeting Abstracts, 2020, MA2020-02, 478-478.	0.0	0
117	(Battery Division Postdoctoral Associate Research Award Address Sponsored by MTI Corporation and) Tj ETQq1 1 0.784314 rgBT /Ove NMC811/Graphite Full Cells. ECS Meeting Abstracts, 2020, MA2020-02, 788-788.	0.0	0
118	Paramagnetic NMR in solution and the solid state. Progress in Nuclear Magnetic Resonance Spectroscopy, 2019, 111, 1-271.	3.9	274
119	Short-range ordering in a battery electrode, the $\text{Li}_{1.25}\text{Nb}_{0.25}\text{Mn}_{0.5}\text{O}_2$ rocksalt cation-disordered $\text{Li}_{1.25}\text{Nb}_{0.25}\text{Mn}_{0.5}\text{O}_2$ rocksalt. Chemical Communications, 2019, 55, 9027-9030.	2.2	58
120	Revisiting the charge compensation mechanisms in $\text{Li}_{0.8}\text{Co}_{0.2}\text{Al}_y\text{O}_2$ systems. Materials Horizons, 2019, 6, 2112-2123.	6.4	62
121	Text mining assisted review of the literature on Li-O_2 batteries. JPhys Materials, 2019, 2, 044004.	1.8	16
122	When Do Anisotropic Magnetic Susceptibilities Lead to Large NMR Shifts? Exploring Particle Shape Effects in the Battery Electrode Material LiFePO_4 . Journal of the American Chemical Society, 2019, 141, 13089-13100.	6.6	22
123	A high-performance solid-state synthesized LiVOPO_4 for lithium-ion batteries. Electrochemistry Communications, 2019, 105, 106491.	2.3	26
124	A Simple Molecular Design Strategy for Delayed Fluorescence toward 1000 nm. Journal of the American Chemical Society, 2019, 141, 18390-18394.	6.6	137
125	Cation Disorder and Lithium Insertion Mechanism of Wadsley-Roth Crystallographic Shear Phases from First Principles. Journal of the American Chemical Society, 2019, 141, 15121-15134.	6.6	69
126	Ionic and Electronic Conduction in TiNb_2O_7 . Journal of the American Chemical Society, 2019, 141, 16706-16725.	6.6	134

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127	NMR Study of the Degradation Products of Ethylene Carbonate in Siliconâ€“Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6345-6350.	2.1	35
128	Strongly coloured thiocyanate frameworks with perovskite-analogue structures. <i>Chemical Science</i> , 2019, 10, 793-801.	3.7	30
129	A general synthetic methodology to access magnesium aluminate electrolyte systems for Mg batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2677-2685.	5.2	18
130	Three-dimensional pulsed field gradient NMR measurements of self-diffusion in anisotropic materials for energy storage applications. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4538-4546.	1.3	13
131	A 17O paramagnetic NMR study of Sm2O3, Eu2O3, and Sm/Eu-substituted CeO2. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 102, 21-30.	1.5	10
132	Electrochemical Lithium Extraction and Insertion Process of Sol-Gel Synthesized LiMnPO ₄ via Two-Phase Mechanism. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1257-A1265.	1.3	12
133	First-principles study of localized and delocalized electronic states in crystallographic shear phases of niobium oxide. <i>Physical Review B</i> , 2019, 99, .	1.1	30
134	Characterizing the Structure and Phase Transition of Li ₂ RuO ₃ Using Variable-Temperature ¹⁷ O and ⁷ Li NMR Spectroscopy. <i>Chemistry of Materials</i> , 2019, 31, 2814-2821.	3.2	23
135	Evolution of Structure and Lithium Dynamics in LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ (NMC811) Cathodes during Electrochemical Cycling. <i>Chemistry of Materials</i> , 2019, 31, 2545-2554.	3.2	228
136	Unraveling the Reaction Mechanisms of SiO Anodes for Li-Ion Batteries by Combining <i>in Situ</i> ⁷ Li and <i>ex Situ</i> ⁷ Li/ ²⁹ Si Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 7014-7027.	6.6	136
137	High-rate lithium ion energy storage to facilitate increased penetration of photovoltaic systems in electricity grids. <i>MRS Energy & Sustainability</i> , 2019, 6, 1.	1.3	10
138	⁷ Li NMR Chemical Shift Imaging To Detect Microstructural Growth of Lithium in All-Solid-State Batteries. <i>Chemistry of Materials</i> , 2019, 31, 2762-2769.	3.2	97
139	Variable-Temperature Multinuclear Solid-State NMR Study of Oxide Ion Dynamics in Fluorite-Type Bismuth Vanadate and Phosphate Solid Electrolytes. <i>Chemistry of Materials</i> , 2019, 31, 1704-1714.	3.2	16
140	Layered CeSO and LiCeSO Oxide Chalcogenides Obtained via Topotactic Oxidative and Reductive Transformations. <i>Inorganic Chemistry</i> , 2019, 58, 3838-3850.	1.9	8
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