Clare Grey

List of Publications by Year
in descending order

630	52,441	997 114	2280 200
papers	citations	h-index	g-index

676	676	676	35921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and Characterization of Magnesium Vanadates as Potential Magnesiumâ€Ion Cathode Materials through an Abâ€…Initio Guided Carbothermal Reduction Approach**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	6
2	Synthesis and Characterization of Magnesium Vanadates as Potential Magnesiumâ€Ion Cathode Materials through an Abâ€…Initio Guided Carbothermal Reduction Approach**. Angewandte Chemie, 2022, 134, .	2.0	2
3	Spatially Resolved Operando Synchrotron-Based X-Ray Diffraction Measurements of Ni-Rich Cathodes for Li-Ion Batteries. Frontiers in Chemical Engineering, 2022, 3, .	2.7	9
4	A solution-processable near-infrared thermally activated delayed fluorescent dye with a fused aromatic acceptor and aggregation induced emission behavior. Journal of Materials Chemistry C, 2022, 10, 4831-4836.	5.5	9
5	In situ bulk magnetization measurements reveal the state of charge of redox flow batteries. Chemical Communications, 2022, 58, 1342-1345.	4.1	8
6	Pushing the limit of 3d transition metal-based layered oxides that use both cation and anion redox for energy storage. Nature Reviews Materials, 2022, 7, 522-540.	48.7	92
7	Cycle-Induced Interfacial Degradation and Transition-Metal Cross-Over in LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂â€“Graphite Cells. Chemistry of Materials, 2022, 34, 2034-2048.	6.7	28
8	Electrolyte Reactivity at the Charged Ni-Rich Cathode Interface and Degradation in Li-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 13206-13222.	8.0	45
9	Hollow-core optical fibre sensors for operando Raman spectroscopy investigation of Li-ion battery liquid electrolytes. Nature Communications, 2022, 13, 1651.	12.8	61
10	Effect of Lithiation upon the Shear Strength of NMC811 Single Crystals. Journal of the Electrochemical Society, 2022, 169, 040511.	2.9	9
11	Importance of Superstructure in Stabilizing Oxygen Redox in P3â€Na_{0.67}Li_{0.2}Mn_{0.8}O₂. Advanced Energy Materials, 2022, 12, .	19.5	25
12	Sodium Borates: Expanding the Electrolyte Selection for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	15
13	Single-Source Deposition of Mixed-Metal Oxide Films Containing Zirconium and 3d Transition Metals for (Photo)electrocatalytic Water Oxidation. Inorganic Chemistry, 2022, 61, 6223-6233.	4.0	4
14	Sodium Borates: Expanding the Electrolyte Selection for Sodiumâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	2.0	6
15	In situ electrochemical recomposition of decomposed redox-active species in aqueous organic flow batteries. Nature Chemistry, 2022, 14, 1103-1109.	13.6	55
16	Two electrolyte decomposition pathways at nickel-rich cathode surfaces in lithium-ion batteries. Energy and Environmental Science, 2022, 15, 3416-3438.	30.8	65
17	Elucidating the Role of Antisolvents on the Surface Chemistry and Optoelectronic Properties of CsPbBr_xI_{3-x} Perovskite Nanocrystals. Journal of the American Chemical Society, 2022, 144, 12102-12115.	13.7	31
18	Triarylamines: Promising Candidates As Aqueous Organic Redox Flow Catholytes. ECS Meeting Abstracts, 2022, MA2022-01, 2046-2046.	0.0	0

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19	Beyond the Norm: Synthesis and Electrochemical Study of High Concentrated NaPF₆ 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 â€“ 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 Al₂O₃ 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.	6.7	104
31	Phase Behavior during Electrochemical Cycling of Niâ€Rich Cathode Materials for Liâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2003404.	19.5	153
32	Sample Dependence of Magnetism in the Next-Generation Cathode Material LiNi0.8Mn0.1Co0.1O2. Inorganic Chemistry, 2021, 60, 263-271.	4.0	6
33	Bulk fatigue induced by surface reconstruction in layered Ni-rich cathodes for Li-ion batteries. Nature Materials, 2021, 20, 84-92.	27.5	349
34	Revisiting metal fluorides as lithium-ion battery cathodes. Nature Materials, 2021, 20, 841-850.	27.5	109
35	High Rate Lithium Ion Battery with Niobium Tungsten Oxide Anode. Journal of the Electrochemical Society, 2021, 168, 010525.	2.9	23
36	Designing for conjugate addition: an amine functionalised quinone anolyte for redox flow batteries. Journal of Materials Chemistry A, 2021, 9, 15188-15198.	10.3	7

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37	Electrochemical Utilization of Iron IV in the Li_{1.3}Fe_{0.4}Nb_{0.3}O₂ Disordered Rocksalt Cathode. Batteries and Supercaps, 2021, 4, 771-777.	4.7	6
38	Probing and Interpreting the Porosity and Tortuosity Evolution of Li-O₂ Cathodes on Discharge through a Combined Experimental and Theoretical Approach. Journal of Physical Chemistry C, 2021, 125, 4955-4967.	3.1	11
39	2021 roadmap on lithium sulfur batteries. JPhys Energy, 2021, 3, 031501.	5.3	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.	2.9	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.	6.7	3
43	Characterizing Nitrogen Sites in Nitrogen-Doped Reduced Graphene Oxide: A Combined Solid-State ¹⁵N NMR, XPS, and DFT Approach. Journal of Physical Chemistry C, 2021, 125, 10558-10564.	3.1	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.	2.9	42
46	Structural Origins of Voltage Hysteresis in the Na-Ion Cathode P2â€“Na_{0.67}[Mg_{0.28}Mn_{0.72}]O₂: A Combined Spectroscopic and Density Functional Theory Study. Chemistry of Materials, 2021, 33, 4890-4906.	6.7	24
47	Operando optical tracking of single-particle ion dynamics in batteries. Nature, 2021, 594, 522-528.	27.8	121
48	NMR studies of adsorption and diffusion in porous carbonaceous materials. Progress in Nuclear Magnetic Resonance Spectroscopy, 2021, 124-125, 57-84.	7.5	19
49	2021 roadmap for sodium-ion batteries. JPhys Energy, 2021, 3, 031503.	5.3	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.	3.1	55
51	Tetrafluoroborateâ€Induced Reduction in Defect Density in Hybrid Perovskites through Halide Management. Advanced Materials, 2021, 33, e2102462.	21.0	24
52	The Complex Role of Aluminium Contamination in Nickelâ€Rich Layered Oxide Cathodes for Lithiumâ€Ion Batteries. Batteries and Supercaps, 2021, 4, 1813-1820.	4.7	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.	0.4	1
54	Endogenous ¹⁷O Dynamic Nuclear Polarization of Gd-Doped CeO₂ from 100 to 370 K. Journal of Physical Chemistry C, 2021, 125, 18799-18809.	3.1	18

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55	CO₂ Capture at Medium to High Temperature Using Solid Oxide-Based Sorbents: Fundamental Aspects, Mechanistic Insights, and Recent Advances. Chemical Reviews, 2021, 121, 12681-12745.	47.7	177
56	Formulation of Metalâ€“Organic Framework-Based Drug Carriers by Controlled Coordination of Methoxy PEG Phosphate: Boosting Colloidal Stability and Redispersibility. Journal of the American Chemical Society, 2021, 143, 13557-13572.	13.7	88
57	Potentiometric MRI of a Superconcentrated Lithium Electrolyte: Testing the Irreversible Thermodynamics Approach. ACS Energy Letters, 2021, 6, 3086-3095.	17.4	33
58	Correlating Local Structure and Sodium Storage in Hard Carbon Anodes: Insights from Pair Distribution Function Analysis and Solid-State NMR. Journal of the American Chemical Society, 2021, 143, 14274-14286.	13.7	66
59	NMR spectroscopy probes microstructure, dynamics and doping of metal halide perovskites. Nature Reviews Chemistry, 2021, 5, 624-645.	30.2	73
60	New Route to Battery Grade NaPF₆ for Naâ€ion Batteries: Expanding the Accessible Concentration. Angewandte Chemie - International Edition, 2021, 60, 24882-24887.	13.8	31
61	Mesoscopic simulations of the in situ NMR spectra of porous carbon based supercapacitors: electronic structure and adsorbent reorganisation effects. Physical Chemistry Chemical Physics, 2021, 23, 15925-15934.	2.8	4
62	CoupledIn SituNMR and EPR Studies Reveal the Electron Transfer Rate and Electrolyte Decomposition in Redox Flow Batteries. Journal of the American Chemical Society, 2021, 143, 1885-1895.	13.7	64
63	Combined High-Resolution Solid-State ¹H/¹³C NMR Spectroscopy and ¹H NMR Relaxometry for the Characterization of Kerogen Thermal Maturation. Energy & Fuels, 2021, 35, 1070-1079.	5.1	7
64	A Magic Angle Spinning Activated ¹⁷O DNP Raser. Journal of Physical Chemistry Letters, 2021, 12, 345-349.	4.6	23
65	The influence of electrochemical cycling protocols on capacity loss in nickel-rich lithium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 23582-23596.	10.3	17
66	Enhanced visible light absorption in layered Cs₃Bi₂Br₉ through mixed-valence Sn(<scp>ii</scp>)/Sn(<scp>iv</scp>) doping. Chemical Science, 2021, 12, 14686-14699.	7.4	21
67	Improved Description of Organic Matter in Shales by Enhanced Solid Fraction Detection with Low-Field ¹H NMR Relaxometry. Energy & Fuels, 2021, 35, 18194-18209.	5.1	6
68	(Invited) Tracking Phase Transitions - from LCO to LNO - Via NCA and NMC. ECS Meeting Abstracts, 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. ECS Meeting Abstracts, 2021, MA2021-02, 76-76.	0.0	0
70	Validating Concentrated Lithium-Ion Electrolyte Transport Models with in-Situ MRI. ECS Meeting Abstracts, 2021, MA2021-02, 285-285.	0.0	0
71	The Complex Role of Aluminium Contamination in Nickelâ€Rich Layered Oxide Cathodes for Lithiumâ€ion Batteries. Batteries and Supercaps, 2021, 4, 1783-1784.	4.7	0
72	Exploring the Role of Cluster Formation in UiO Family Hf Metalâ€“Organic Frameworks with in Situ X-ray Pair Distribution Function Analysis. Journal of the American Chemical Society, 2021, 143, 19668-19683.	13.7	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. Journal of Physical Chemistry C, 2021, 125, 27520-27533.	3.1	9
74	Stabilized tilted-octahedra halide perovskites inhibit local formation of performance-limiting phases. Science, 2021, 374, 1598-1605.	12.6	115
75	Hydrophilic microporous membranes for selective ion separation and flow-battery energy storage. Nature Materials, 2020, 19, 195-202.	27.5	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. Joule, 2020, 4, 2501-2520.	24.0	37
78	Under Pressure: Mechanochemical Effects on Structure and Ion Conduction in the Sodium-Ion Solid Electrolyte Na₃PS₄. Journal of the American Chemical Society, 2020, 142, 18422-18436.	13.7	58
79	Electrolyte Oxidation Pathways in Lithium-Ion Batteries. Journal of the American Chemical Society, 2020, 142, 15058-15074.	13.7	160
80	Noninvasive In Situ NMR Study of â€œDead Lithiumâ€•Formation and Lithium Corrosion in Full-Cell Lithium Metal Batteries. Journal of the American Chemical Society, 2020, 142, 20814-20827.	13.7	160
81	Co₃O₄-Catalyzed LiOH Chemistry in Liâ€“O₂ Batteries. ACS Energy Letters, 2020, 5, 3681-3691.	17.4	37
82	Effect of Anode Slippage on Cathode Cutoff Potential and Degradation Mechanisms in Ni-Rich Li-Ion Batteries. Cell Reports Physical Science, 2020, 1, 100253.	5.6	42
83	A revised mechanistic model for sodium insertion in hard carbons. Energy and Environmental Science, 2020, 13, 3469-3479.	30.8	195
84	Strengthening the Magnetic Interactions in Pseudobinary First-Row Transition Metal Thiocyanates, M(NCS)2. Inorganic Chemistry, 2020, 59, 11627-11639.	4.0	14
85	Hardwood versus softwood Kraft lignin â€“ precursor-product relationships in the manufacture of porous carbon nanofibers for supercapacitors. Journal of Materials Chemistry A, 2020, 8, 23543-23554.	10.3	28
86	Exploring Cationâ€“Anion Redox Processes in One-Dimensional Linear Chain Vanadium Tetrasulfide Rechargeable Magnesium Ion Cathodes. Journal of the American Chemical Society, 2020, 142, 19588-19601.	13.7	44
87	Vanadyl Phosphates A_xVOPO₄ (A = Li, Na, K) as Multielectron Cathodes for Alkaliâ€•Ion Batteries. Advanced Energy Materials, 2020, 10, 2002638.	19.5	26
88	Bulk and Surface Chemistry of the Niobium MAX and MXene Phases from Multinuclear Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2020, 142, 18924-18935.	13.7	35
89	Operando NMR of NMC811/Graphite Lithium-Ion Batteries: Structure, Dynamics, and Lithium Metal Deposition. Journal of the American Chemical Society, 2020, 142, 17447-17456.	13.7	79
90	Revealing the Structure and Oxygen Transport at Interfaces in Complex Oxide Heterostructures via ¹⁷O NMR Spectroscopy. Chemistry of Materials, 2020, 32, 7921-7931.	6.7	5

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91	Prospects for lithium-ion batteries and beyondâ€"a 2030 vision. Nature Communications, 2020, 11, 6279.	12.8	369
92	Selective NMR observation of the SEIâ€"metal interface by dynamic nuclear polarisation from lithium metal. Nature Communications, 2020, 11, 2224.	12.8	91
93	Stable Hexylphosphonate-Capped Blue-Emitting Quantum-Confined CsPbBr₃ Nanoplatelets. ACS Energy Letters, 2020, 5, 1900-1907.	17.4	82
94	Cesium Substitution Disrupts Concerted Cation Dynamics in Formamidinium Hybrid Perovskites. Chemistry of Materials, 2020, 32, 6266-6277.	6.7	38
95	Interactions of Oxide Surfaces with Water Revealed with Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2020, 142, 11173-11182.	13.7	24
96	Establishing Ultralow Activation Energies for Lithium Transport in Garnet Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 32806-32816.	8.0	45
97	Effects of Atmospheric Gases on Li Metal Cyclability and Solid-Electrolyte Interphase Formation. ACS Energy Letters, 2020, 5, 1088-1094.	17.4	29
98	Intrinsic Kinetic Limitations in Substituted Lithium-Layered Transition-Metal Oxide Electrodes. Journal of the American Chemical Society, 2020, 142, 7001-7011.	13.7	69
99	Local Structure and Dynamics in Methylammonium, Formamidinium, and Cesium Tin(II) Mixed-Halide Perovskites from ¹¹⁹Sn Solid-State NMR. Journal of the American Chemical Society, 2020, 142, 7813-7826.	13.7	66
100	Local Distortions and Dynamics in Hydrated Y-Doped BaZrO₃. Journal of Physical Chemistry C, 2020, 124, 16689-16701.	3.1	12
101	Direct Imaging of Correlated Defect Nanodomains in a Metalâ€"Organic Framework. Journal of the American Chemical Society, 2020, 142, 13081-13089.	13.7	65
102	Investigating the effect of a fluoroethylene carbonate additive on lithium deposition and the solid electrolyte interphase in lithium metal batteries using in situ NMR spectroscopy. Journal of Materials Chemistry A, 2020, 8, 14975-14992.	10.3	57
103	Evolution of Structure in the Incommensurate Modulated LaNb_{1â€"x}W_xO_{4+x/2} (x = 0.04â€"0.16) Oxide Ion Conductors. Chemistry of Materials, 2020, 32, 2292-2303.	6.7	7
104	In situ NMR metrology reveals reaction mechanisms in redox flow batteries. Nature, 2020, 579, 224-228.	27.8	132
105	Evolution of lithium ordering with (de)-lithiation in Î²-LiVOPO₄: insights through solid-state NMR and first principles DFT calculations. Journal of Materials Chemistry A, 2020, 8, 5546-5557.	10.3	13
106	Current Challenges and Routes Forward for Nonaqueous Lithiumâ€"Air Batteries. Chemical Reviews, 2020, 120, 6558-6625.	47.7	356
107	Al/Ga-Doped Li₇La₃Zr₂O₁₂ Garnets as Li-Ion Solid-State Battery Electrolytes: Atomistic Insights into Local Coordination Environments and Their Influence on ¹⁷O, ²⁷Al, and ⁷¹Ga NMR Spectra. Journal of the American Chemical Society, 2020, 142, 3132-3148.	13.7	51
108	The structures of ordered defects in thiocyanate analogues of Prussian Blue. Chemical Science, 2020, 11, 4430-4438.	7.4	10

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109	Lithium Diffusion in Niobium Tungsten Oxide Shear Structures. Chemistry of Materials, 2020, 32, 3980-3989.	6.7	54
110	Superionic Lithium Intercalation through 2 Ã— 2 nm² Columns in the Crystallographic Shear Phase Nb₁₈W₈O₆₉. Chemistry of Materials, 2020, 32, 3860-3868.	6.7	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.	7.5	274
119	Short-range ordering in a battery electrode, the â€˜cation-disorderedâ€™ rocksalt Li_{1.25}Nb_{0.25}Mn_{0.5}O₂. Chemical Communications, 2019, 55, 9027-9030.	4.1	58
120	Revisiting the charge compensation mechanisms in LiNi_{0.8}Co_{0.2âˆ’y}Al_yO₂ systems. Materials Horizons, 2019, 6, 2112-2123.	12.2	62
121	Text mining assisted review of the literature on Li-O₂ batteries. JPhys Materials, 2019, 2, 044004.	4.2	16
122	When Do Anisotropic Magnetic Susceptibilities Lead to Large NMR Shifts? Exploring Particle Shape Effects in the Battery Electrode Material LiFePO₄. Journal of the American Chemical Society, 2019, 141, 13089-13100.	13.7	22
123	A high-performance solid-state synthesized LiVOPO4 for lithium-ion batteries. Electrochemistry Communications, 2019, 105, 106491.	4.7	26
124	A Simple Molecular Design Strategy for Delayed Fluorescence toward 1000 nm. Journal of the American Chemical Society, 2019, 141, 18390-18394.	13.7	137
125	Cation Disorder and Lithium Insertion Mechanism of Wadsleyâ€“Roth Crystallographic Shear Phases from First Principles. Journal of the American Chemical Society, 2019, 141, 15121-15134.	13.7	69
126	Ionic and Electronic Conduction in TiNb₂O₇. Journal of the American Chemical Society, 2019, 141, 16706-16725.	13.7	134

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127	NMR Study of the Degradation Products of Ethylene Carbonate in Siliconâ€“Lithium Ion Batteries. Journal of Physical Chemistry Letters, 2019, 10, 6345-6350.	4.6	35
128	Strongly coloured thiocyanate frameworks with perovskite-analogue structures. Chemical Science, 2019, 10, 793-801.	7.4	30
129	A general synthetic methodology to access magnesium aluminate electrolyte systems for Mg batteries. Journal of Materials Chemistry A, 2019, 7, 2677-2685.	10.3	18
130	Three-dimensional pulsed field gradient NMR measurements of self-diffusion in anisotropic materials for energy storage applications. Physical Chemistry Chemical Physics, 2019, 21, 4538-4546.	2.8	13
131	A 17O paramagnetic NMR study of Sm2O3, Eu2O3, and Sm/Eu-substituted CeO2. Solid State Nuclear Magnetic Resonance, 2019, 102, 21-30.	2.3	10
132	Electrochemical Lithium Extraction and Insertion Process of Sol-Gel Synthesized LiMnPO₄via Two-Phase Mechanism. Journal of the Electrochemical Society, 2019, 166, A1257-A1265.	2.9	12
133	First-principles study of localized and delocalized electronic states in crystallographic shear phases of niobium oxide. Physical Review B, 2019, 99, .	3.2	30
134	Characterizing the Structure and Phase Transition of Li₂RuO₃ Using Variable-Temperature ¹⁷O and ⁷Li NMR Spectroscopy. Chemistry of Materials, 2019, 31, 2814-2821.	6.7	23
135	Evolution of Structure and Lithium Dynamics in LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂ (NMC811) Cathodes during Electrochemical Cycling. Chemistry of Materials, 2019, 31, 2545-2554.	6.7	228
136	Unraveling the Reaction Mechanisms of SiO Anodes for Li-Ion Batteries by Combining in Situ ⁷Li and ex Situ ⁷Li/²⁹Si Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2019, 141, 7014-7027.	13.7	136
137	High-rate lithium ion energy storage to facilitate increased penetration of photovoltaic systems in electricity grids. MRS Energy & Sustainability, 2019, 6, 1.	3.0	10
138	⁷Li NMR Chemical Shift Imaging To Detect Microstructural Growth of Lithium in All-Solid-State Batteries. Chemistry of Materials, 2019, 31, 2762-2769.	6.7	97
139	Variable-Temperature Multinuclear Solid-State NMR Study of Oxide Ion Dynamics in Fluorite-Type Bismuth Vanadate and Phosphate Solid Electrolytes. Chemistry of Materials, 2019, 31, 1704-1714.	6.7	16
140	Layered CeSO and LiCeSO Oxide Chalcogenides Obtained via Topotactic Oxidative and Reductive Transformations. Inorganic Chemistry, 2019, 58, 3838-3850.	4.0	8
141	Engineering new defective phases of UiO family metalâ€“organic frameworks with water. Journal of Materials Chemistry A, 2019, 7, 7459-7469.	10.3	58
142	Natural abundance solid-state 33S NMR study of NbS3: applications for battery conversion electrodes. Chemical Communications, 2019, 55, 12687-12690.	4.1	11
143	Polar surface structure of oxide nanocrystals revealed with solid-state NMR spectroscopy. Nature Communications, 2019, 10, 5420.	12.8	41
144	Surface Chemistry Dependence on Aluminum Doping in Ni-rich LiNi0.8Co0.2â^'yAlyO2 Cathodes. Scientific Reports, 2019, 9, 17720.	3.3	25

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145	Structural insights into the formation and voltage degradation of lithium- and manganese-rich layered oxides. Nature Communications, 2019, 10, 5365.	12.8	166
146	Understanding LiOH Formation in a Li-O₂ Battery with LiI and H₂O Additives. ACS Catalysis, 2019, 9, 66-77.	11.2	57
147	Three-dimensional localization of nanoscale battery reactions using soft X-ray tomography. Nature Communications, 2018, 9, 921.	12.8	107
148	Low-dimensional quantum magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Cu</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo></mml:mrow><mml:m : A molecular framework material. Physical Review B, 2018, 97, .	3.7	19
149	Broadband MAS NMR spectroscopy in the low-power limit. Chemical Physics Letters, 2018, 697, 29-37.	2.6	10
150	Proton distribution in Sc-doped BaZrO₃: a solid state NMR and first principle calculations analysis. Physical Chemistry Chemical Physics, 2018, 20, 4317-4328.	2.8	21
151	Stochasticity of Pores Interconnectivity in Liâ€“O₂ Batteries and its Impact on the Variations in Electrochemical Performance. Journal of Physical Chemistry Letters, 2018, 9, 791-797.	4.6	37
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