

Jordi Cabana

List of Publications by Year in descending order

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164
papers

11,566
citations

31902

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g-index

175
all docs

175
docs citations

175
times ranked

13014
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond Intercalation-Based Li-Ion Batteries: The State of the Art and Challenges of Electrode Materials Reacting Through Conversion Reactions. <i>Advanced Materials</i> , 2010, 22, E170-92.	11.1	2,063
2	The origin of high electrolyte-electrode interfacial resistances in lithium cells containing garnet type solid electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18294-18300.	1.3	431
3	Exploring Anomalous Charge Storage in Anode Materials for Next-Generation Li Rechargeable Batteries. <i>Chemical Reviews</i> , 2020, 120, 6934-6976.	23.0	382
4	Chemical composition mapping with nanometre resolution by soft X-ray microscopy. <i>Nature Photonics</i> , 2014, 8, 765-769.	15.6	371
5	Intergranular Cracking as a Major Cause of Long-Term Capacity Fading of Layered Cathodes. <i>Nano Letters</i> , 2017, 17, 3452-3457.	4.5	361
6	Three-dimensional imaging of chemical phase transformations at the nanoscale with full-field transmission X-ray microscopy. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 773-781.	1.0	228
7	Mechanism of Zn Insertion into Nanostructured γ - MnO_2 : A Nonaqueous Rechargeable Zn Metal Battery. <i>Chemistry of Materials</i> , 2017, 29, 4874-4884.	3.2	225
8	Single-particle measurements of electrochemical kinetics in NMC and NCA cathodes for Li-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 860-871.	15.6	224
9	Influence of the Benzoquinone Sorption on the Structure and Electrochemical Performance of the MIL-53(Fe) Hybrid Porous Material in a Lithium-Ion Battery. <i>Chemistry of Materials</i> , 2009, 21, 1602-1611.	3.2	214
10	Composition-Structure Relationships in the Li-Ion Battery Electrode Material $\text{Li}_{0.5}\text{Mn}_{1.5}\text{O}_4$. <i>Chemistry of Materials</i> , 2012, 24, 2952-2964.	3.2	211
11	Revealing High Na-Content P2-Type Layered Oxides as Advanced Sodium-Ion Cathodes. <i>Journal of the American Chemical Society</i> , 2020, 142, 5742-5750.	6.6	206
12	Ultrathin Lithium-Ion Conducting Coatings for Increased Interfacial Stability in High Voltage Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 3128-3134.	3.2	192
13	New materials based on a layered sodium titanate for dual electrochemical Na and Li intercalation systems. <i>Energy and Environmental Science</i> , 2013, 6, 2538.	15.6	191
14	The Formation Mechanism of Fluorescent Metal Complexes at the $\text{Li}_x\text{Ni}_{0.5}\text{Mn}_{1.5}\text{O}_4$ /Carbonate Ester Electrolyte Interface. <i>Journal of the American Chemical Society</i> , 2015, 137, 3533-3539.	6.6	182
15	Direct Observation of Reversible Magnesium Ion Intercalation into a Spinel Oxide Host. <i>Advanced Materials</i> , 2015, 27, 3377-3384.	11.1	178
16	Effect of microstructure and surface impurity segregation on the electrical and electrochemical properties of dense $\text{Al}_7\text{La}_3\text{Zr}_2\text{O}_{12}$. <i>Journal of Materials Chemistry A</i> , 2014, 2, 172-181.	5.2	170
17	Cation Ordering in $\text{Li}[\text{Ni}_x\text{Mn}_x\text{Co}_{(1-2x)}]\text{O}_2$ -Layered Cathode Materials: A Nuclear Magnetic Resonance (NMR), Pair Distribution Function, X-ray Absorption Spectroscopy, and Electrochemical Study. <i>Chemistry of Materials</i> , 2007, 19, 6277-6289.	3.2	161
18	Unlocking anionic redox activity in O3-type sodium 3d layered oxides via Li substitution. <i>Nature Materials</i> , 2021, 20, 353-361.	13.3	155

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19	Mechanism of Phase Propagation During Lithiation in Carbon-Free $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Battery Electrodes. <i>Advanced Functional Materials</i> , 2013, 23, 1214-1222.	7.8	140
20	Monodisperse Sn Nanocrystals as a Platform for the Study of Mechanical Damage during Electrochemical Reactions with Li. <i>Nano Letters</i> , 2013, 13, 1800-1805.	4.5	134
21	X-ray Absorption Spectra of Dissolved Polysulfides in Lithium-Sulfur Batteries from First-Principles. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1547-1551.	2.1	134
22	Reversible Mg-Ion Insertion in a Metastable One-Dimensional Polymorph of V_2O_5 . <i>CheM</i> , 2018, 4, 564-585.	5.8	126
23	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. <i>Nature Energy</i> , 2019, 4, 977-987.	19.8	123
24	Mesoscale Phase Distribution in Single Particles of LiFePO_4 following Lithium Deintercalation. <i>Chemistry of Materials</i> , 2013, 25, 1664-1672.	3.2	120
25	2D Copper Tetrahydroxyquinone Conductive Metal-Organic Framework for Selective CO_2 Electrocatalysis at Low Overpotentials. <i>Advanced Materials</i> , 2021, 33, e2004393.	11.1	120
26	Three-dimensional localization of nanoscale battery reactions using soft X-ray tomography. <i>Nature Communications</i> , 2018, 9, 921.	5.8	107
27	The effects of moderate thermal treatments under air on LiFePO_4 -based nano powders. <i>Journal of Materials Chemistry</i> , 2009, 19, 3979.	6.7	106
28	Graphene quantum dots: structural integrity and oxygen functional groups for high sulfur/sulfide utilization in lithium sulfur batteries. <i>NPG Asia Materials</i> , 2016, 8, e272-e272.	3.8	105
29	Dependence on Crystal Size of the Nanoscale Chemical Phase Distribution and Fracture in Li_xFePO_4 . <i>Nano Letters</i> , 2015, 15, 4282-4288.	4.5	99
30	Nanocomposites of Titanium Dioxide and Polystyrene-Poly(ethylene oxide) Block Copolymer as Solid-State Electrolytes for Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1611-A1617.	1.3	96
31	Mechanisms of Degradation and Strategies for the Stabilization of Cathode-Electrolyte Interfaces in Li-Ion Batteries. <i>Accounts of Chemical Research</i> , 2018, 51, 299-308.	7.6	94
32	Stabilizing Reversible Oxygen Redox Chemistry in Layered Oxides for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903785.	10.2	87
33	Rocking-Chair-Type Metal Hybrid Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30853-30862.	4.0	86
34	Structural and Electrochemical Characterization of Composite Layered-Spinel Electrodes Containing Ni and Mn for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2009, 156, A730.	1.3	82
35	Comparison of the Performance of $\text{LiNi}_{1/2}\text{Mn}_{3/2}\text{O}_4$ with Different Microstructures. <i>Journal of the Electrochemical Society</i> , 2011, 158, A997.	1.3	81
36	Charge Transfer Band Gap as an Indicator of Hysteresis in Li-Disordered Rock Salt Cathodes for Li-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019, 141, 11452-11464.	6.6	81

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37	Visualization of electrochemically driven solid-state phase transformations using operando hard X-ray spectro-imaging. <i>Nature Communications</i> , 2015, 6, 6883.	5.8	80
38	Visualization of Electrochemical Reactions in Battery Materials with X-ray Microscopy and Mapping. <i>Chemistry of Materials</i> , 2017, 29, 3347-3362.	3.2	80
39	Effective wrapping of graphene on individual $\text{Li}_4\text{Ti}_5\text{O}_{12}$ grains for high-rate Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2023-2027.	5.2	76
40	Fingerprinting Lithium-Sulfur Battery Reaction Products by X-ray Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1100-A1106.	1.3	76
41	Layered Oxide Cathodes for Li-Ion Batteries: Oxygen Loss and Vacancy Evolution. <i>Chemistry of Materials</i> , 2019, 31, 7790-7798.	3.2	76
42	Intercalation of Magnesium into a Layered Vanadium Oxide with High Capacity. <i>ACS Energy Letters</i> , 2019, 4, 1528-1534.	8.8	75
43	Titanate Anodes for Sodium Ion Batteries. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014, 24, 5-14.	1.9	73
44	Structural Underpinnings of the Enhanced Cycling Stability upon Al-Substitution in $\text{LiNi}_{0.45}\text{Mn}_{0.45}\text{Co}_{0.1}\text{Al}_x\text{O}_2$ Positive Electrode Materials for Li-ion Batteries. <i>Chemistry of Materials</i> , 2012, 24, 3307-3317.	3.2	70
45	Degradation Mechanisms of Magnesium Metal Anodes in Electrolytes Based on $(\text{CF}_3\text{SO}_2)_2\text{N}^+\text{â€}^{\sup}$ at High Current Densities. <i>Langmuir</i> , 2017, 33, 9398-9406.	1.6	70
46	Enhanced high rate performance of LiMn_2O_4 spinel nanoparticles synthesized by a hard-template route. <i>Journal of Power Sources</i> , 2007, 166, 492-498.	4.0	68
47	Lepidocrocite-type Layered Titanate Structures: New Lithium and Sodium Ion Intercalation Anode Materials. <i>Chemistry of Materials</i> , 2014, 26, 2502-2512.	3.2	68
48	Stabilizing Anionic Redox Chemistry in a Mn-Based Layered Oxide Cathode Constructed by Li-Deficient Pristine State. <i>Advanced Materials</i> , 2021, 33, e2004280.	11.1	67
49	NMR, PDF and RMC study of the positive electrode material $\text{Li}(\text{Ni}_{0.5}\text{Mn}_{0.5})\text{O}_2$ synthesized by ion-exchange methods. <i>Journal of Materials Chemistry</i> , 2007, 17, 3167.	6.7	66
50	Study of the Transition Metal Ordering in Layered $\text{Na}_x\text{Ni}_x/2\text{Mn}_{1-x/2}\text{O}_2$ (2/3 â€) Tj ETQq000 rgB74 Overlock	0.9	64
51	Effects of crystallinity and impurities on the electrical conductivity of $\text{Li}^{\text{La}}\text{Zr}^{\text{O}}$ thin films. <i>Thin Solid Films</i> , 2015, 576, 55-60.	0.8	61
52	MAS NMR Study of the Metastable Solid Solutions Found in the $\text{LiFePO}_4/\text{FePO}_4$ System. <i>Chemistry of Materials</i> , 2010, 22, 1249-1262.	3.2	57
53	Phase-Controlled Electrochemical Activity of Epitaxial Mg-Spinel Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28438-28443.	4.0	56
54	Surface Chemistry Consequences of Mg-Based Coatings on $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Electrode Materials upon Operation at High Voltage. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10596-10605.	1.5	53

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55	Facet-Dependent Rock-Salt Reconstruction on the Surface of Layered Oxide Cathodes. <i>Chemistry of Materials</i> , 2018, 30, 692-699.	3.2	53
56	Probing Mg Migration in Spinel Oxides. <i>Chemistry of Materials</i> , 2020, 32, 663-670.	3.2	53
57	Ex situ NMR and neutron diffraction study of structure and lithium motion in LiMnN. <i>Solid State Ionics</i> , 2005, 176, 2205-2218.	1.3	52
58	Asymmetric pathways in the electrochemical conversion reaction of NiO as battery electrode with high storage capacity. <i>Scientific Reports</i> , 2014, 4, 7133.	1.6	51
59	First Example of Protonation of Ruddlesden-Popper Sr_2IrO_4 : A Route to Enhanced Water Oxidation Catalysts. <i>Chemistry of Materials</i> , 2020, 32, 3499-3509.	3.2	51
60	Layered Oxysulfides $\text{Sr}_2\text{MnO}_2\text{Cu}_{2m-0.5}\text{Sm}^{+1}$ ($m = 1, 2, \text{ and } 3$) as Insertion Hosts for Li Ion Batteries. <i>Journal of the American Chemical Society</i> , 2006, 128, 13354-13355.	6.6	49
61	High Voltage Mg-Ion Battery Cathode via a Solid Solution Cr-Mn Spinel Oxide. <i>Chemistry of Materials</i> , 2020, 32, 6577-6587.	3.2	48
62	High Capacity for Mg^{2+} Deintercalation in Spinel Vanadium Oxide Nanocrystals. <i>ACS Energy Letters</i> , 2020, 5, 2721-2727.	8.8	48
63	Beyond Intercalation-Based Li-Ion Batteries: The State of the Art and Challenges of Electrode Materials Reacting Through Conversion Reactions (<i>Adv. Mater.</i> 35/2010). <i>Advanced Materials</i> , 2010, 22, .	11.1	47
64	Achieving stable anionic redox chemistry in Li-excess O ₂ -type layered oxide cathode via chemical ion-exchange strategy. <i>Energy Storage Materials</i> , 2021, 38, 1-8.	9.5	46
65	Quasi-Binary Transition Metal Dichalcogenide Alloys: Thermodynamic Stability Prediction, Scalable Synthesis, and Application. <i>Advanced Materials</i> , 2020, 32, e1907041.	11.1	46
66	Investigating the Intercalation Chemistry of Alkali Ions in Fluoride Perovskites. <i>Chemistry of Materials</i> , 2017, 29, 1561-1568.	3.2	44
67	Antifluorite-Type Lithium Chromium Oxide Nitrides: Synthesis, Structure, Order, and Electrochemical Properties. <i>Inorganic Chemistry</i> , 2004, 43, 7050-7060.	1.9	43
68	Finite temperature effects on the X-ray absorption spectra of lithium compounds: First-principles interpretation of X-ray Raman measurements. <i>Journal of Chemical Physics</i> , 2014, 140, 034107.	1.2	43
69	Nonequilibrium Pathways during Electrochemical Phase Transformations in Single Crystals Revealed by Dynamic Chemical Imaging at Nanoscale Resolution. <i>Advanced Energy Materials</i> , 2015, 5, 1402040.	10.2	42
70	The Quest for Functional Oxide Cathodes for Magnesium Batteries: A Critical Perspective. <i>ACS Energy Letters</i> , 2021, 6, 1892-1900.	8.8	42
71	Formation of a Complete Solid Solution between the Triphylite and Fayalite Olivine Structures. <i>Chemistry of Materials</i> , 2008, 20, 6798-6809.	3.2	41
72	Carbon-Free TiO_2 Battery Electrodes Enabled by Morphological Control at the Nanoscale. <i>Advanced Energy Materials</i> , 2013, 3, 1286-1291.	10.2	41

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73	Atomic defects during ordering transitions in $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ and their relationship with electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8255-8262.	5.2	41
74	Reversible anionic redox chemistry in layered $\text{Li}_{4/7}[\text{Mn}_{6/7}]\text{O}_2$ enabled by stable $\text{Li}^{\ominus}\text{O}$ -vacancy configuration. <i>Joule</i> , 2022, 6, 1290-1303.	11.7	41
75	Near-edge X-ray refraction fine structure microscopy. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	39
76	Towards New Negative Electrode Materials for Li-Ion Batteries: Electrochemical Properties of LiNiN . <i>Chemistry of Materials</i> , 2008, 20, 1676-1678.	3.2	38
77	High rate performance of lithium manganese nitride and oxynitride as negative electrodes in lithium batteries. <i>Electrochemistry Communications</i> , 2010, 12, 315-318.	2.3	37
78	Investigation of the Structural Changes in $\text{Li}[\text{Ni}_y\text{Mn}_y\text{Co}(1-2y)]\text{O}_2$ ($y = 0.05$) upon Electrochemical Lithium Deintercalation. <i>Chemistry of Materials</i> , 2010, 22, 1209-1219.	3.2	37
79	$\text{NaV}_{1.25}\text{Ti}_{0.75}\text{O}_4$: A Potential Post-Spinel Cathode Material for Mg Batteries. <i>Chemistry of Materials</i> , 2018, 30, 121-128.	3.2	37
80	The first lithium manganese oxynitride, $\text{Li}_{7.9}\text{Mn}_5\text{N}_5\text{O}_y$: preparation and use as electrode material in lithium batteries. <i>Journal of Materials Chemistry</i> , 2003, 13, 2402-2404.	6.7	35
81	Structural complexity of layered-spinel composite electrodes for Li-ion batteries. <i>Journal of Materials Research</i> , 2010, 25, 1601-1616.	1.2	34
82	Understanding the defect chemistry of alkali metal strontium silicate solid solutions: insights from experiment and theory. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17919-17924.	5.2	34
83	Capturing dynamic ligand-to-metal charge transfer with a long-lived cationic intermediate for anionic redox. <i>Nature Materials</i> , 2022, 21, 1165-1174.	13.3	34
84	Electrochemical Reduction of a Spinel-Type Manganese Oxide Cathode in Aqueous Electrolytes with Ca^{2+} or Zn^{2+} . <i>Journal of Physical Chemistry C</i> , 2018, 122, 4182-4188.	1.5	33
85	Electronic structure study of ordering and interfacial interaction in graphene/Cu composites. <i>Carbon</i> , 2012, 50, 5316-5322.	5.4	32
86	Crystal Structure, Physical Properties, and Electrochemistry of Copper Substituted LiFePO_4 Single Crystals. <i>Chemistry of Materials</i> , 2012, 24, 166-173.	3.2	31
87	Probing Electrochemical Mg-Ion Activity in $\text{MgCr}_2\text{V}_x\text{O}_4$ Spinel Oxides. <i>Chemistry of Materials</i> , 2020, 32, 1162-1171.	3.2	31
88	Elucidating Anionic Redox Chemistry in P3 Layered Cathode for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38249-38255.	4.0	30
89	Nanoscale Detection of Intermediate Solid Solutions in Equilibrated Li_xFePO_4 Microcrystals. <i>Nano Letters</i> , 2017, 17, 7364-7371.	4.5	27
90	Tailoring the electrochemical activity of magnesium chromium oxide towards Mg batteries through control of size and crystal structure. <i>Nanoscale</i> , 2019, 11, 639-646.	2.8	27

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91	Electroanalytical study of the viability of conversion reactions as energy storage mechanisms. RSC Advances, 2014, 4, 35988-35996.	1.7	26
92	Changes in Electronic Structure upon Li Deintercalation from LiCoPO_4 Derivatives. Chemistry of Materials, 2018, 30, 1898-1906.	3.2	26
93	Probing Electrochemically Induced Structural Evolution and Oxygen Redox Reactions in Layered Lithium Iridate. Chemistry of Materials, 2019, 31, 4341-4352.	3.2	26
94	Effect of lithium borate addition on the physical and electrochemical properties of the lithium ion conductor $\text{Li}_3.4\text{Si}_0.4\text{P}_0.6\text{O}_4$. Solid State Ionics, 2013, 231, 109-115.	1.3	24
95	Structure and Sodium Ion Dynamics in Sodium Strontium Silicate Investigated by Multinuclear Solid-State NMR. Chemistry of Materials, 2016, 28, 3850-3861.	3.2	24
96	Electronic Structure of LiCoO_2 Surfaces and Effect of Al Substitution. Journal of Physical Chemistry C, 2019, 123, 8851-8858.	1.5	24
97	Machine-Learning-Assisted Synthesis of Polar Racemates. Journal of the American Chemical Society, 2020, 142, 7555-7566.	6.6	24
98	Multivalent Electrochemistry of Spinel $\text{Mg}_x\text{Mn}_3\text{O}_4$ Nanocrystals. Chemistry of Materials, 2018, 30, 1496-1504.	3.2	23
99	Highly Active Rhenium-, Ruthenium-, and Iridium-Based Dichalcogenide Electrocatalysts for Oxygen Reduction and Oxygen Evolution Reactions in Aprotic Media. Chemistry of Materials, 2020, 32, 2764-2773.	3.2	23
100	Electronic structure changes upon lithium intercalation into graphite – Insights from ex situ and operando x-ray Raman spectroscopy. Carbon, 2019, 143, 371-377.	5.4	22
101	Nanostructured Conductive Metal Organic Frameworks for Sustainable Low Charge Overpotentials in “Air Batteries. Small, 2022, 18, e2102902.	5.2	22
102	Oxynitrides as Electrode Materials for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2005, 152, A2246.	1.3	21
103	Effect of ball-milling and lithium insertion on the lithium mobility and structure of $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$. Journal of Materials Chemistry, 2011, 21, 10012.	6.7	21
104	Database of ab initio L-edge X-ray absorption near edge structure. Scientific Data, 2021, 8, 153.	2.4	21
105	Effect of Si(IV) substitution on electrochemical, magnetic and spectroscopic performance of nanosized $\text{LiMn}_2\text{Si}_x\text{O}_4$. Journal of Materials Chemistry A, 2013, 1, 10857.	5.2	18
106	Triggering and Stabilizing Oxygen Redox Chemistry in Layered $\text{Li}[\text{Na}_{1/3}\text{Ru}_{2/3}]\text{O}_2$ Enabled by Stable “O” Na Configuration. ACS Energy Letters, 2022, 7, 2349-2356.	8.8	18
107	Stabilization of Battery Electrode/Electrolyte Interfaces Employing Nanocrystals with Passivating Epitaxial Shells. Chemistry of Materials, 2015, 27, 394-399.	3.2	17
108	Control of Chemical Structure in Core-Shell Nanocrystals for the Stabilization of Battery Electrode/Electrolyte Interfaces. Chemistry of Materials, 2017, 29, 5896-5905.	3.2	17

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109	Effect of Passivating Shells on the Chemistry and Electrode Properties of LiMn_2O_4 Nanocrystal Heterostructures. ACS Applied Materials & Interfaces, 2019, 11, 3823-3833.	4.0	17
110	Charge Transport Properties of Lithium Superoxide in Li_2O Batteries. ACS Applied Energy Materials, 2020, 3, 12575-12583.	2.5	17
111	The Effect of Al Substitution on the Chemical and Electrochemical Phase Stability of Orthorhombic LiMn_2O_4 . Journal of the Electrochemical Society, 2013, 160, A46-A52.	1.3	16
112	Synthesis of Antiperovskite Solid Electrolytes: Comparing Li_3Si , Na_3Si , and Ag_3Si . Inorganic Chemistry, 2020, 59, 11244-11247.	1.9	16
113	Enhanced charge storage of nanometric TiVO_5 in Mg electrolytes. Nanoscale, 2020, 12, 22150-22160.	2.8	15
114	Synthesis, Short-Range Structure, and Electrochemical Properties of New Phases in the $\text{Li}^+\text{Mn}^{\text{IV}}\text{Na}^{\text{I}}\text{O}$ System. Inorganic Chemistry, 2009, 48, 5141-5153.	1.9	14
115	Investigation of cation ordering in triclinic sodium birnessite via ^{23}Na MAS NMR spectroscopy. American Mineralogist, 2012, 97, 883-889.	0.9	14
116	Does Water Enhance Mg Intercalation in Oxides? The Case of a Tunnel Framework. ACS Energy Letters, 2020, 5, 3357-3361.	8.8	13
117	Phase-Dependent Band Gap Engineering in Alloys of Metal-Semiconductor Transition Metal Dichalcogenides. Advanced Functional Materials, 2020, 30, 2004912.	7.8	13
118	Structure design enables stable anionic and cationic redox chemistry in a T2-type Li-excess layered oxide cathode. Science Bulletin, 2022, 67, 381-388.	4.3	13
119	High-Voltage Cathode Materials for Lithium-Ion Batteries: Freeze-Dried $\text{LiMn}_{0.8}\text{Fe}_{0.1}\text{M}_0.1\text{PO}_4/\text{C}$ (M = Fe, V) $\text{ETQq}_{1.1}$ $0.7843_{1.4}$ $\text{rgBT}_{1.9}$ 12	1.9	12
120	Electrochemical Lithium Extraction and Insertion Process of Sol-Gel Synthesized LiMnPO_4 via Two-Phase Mechanism. Journal of the Electrochemical Society, 2019, 166, A1257-A1265.	1.3	12
121	Definition of Redox Centers in Reactions of Lithium Intercalation in Li_3RuO_4 Polymorphs. Journal of the American Chemical Society, 2020, 142, 8160-8173.	6.6	12
122	Elucidation of Active Oxygen Sites upon Delithiation of Li_3IrO_4 . ACS Energy Letters, 2021, 6, 140-147.	8.8	12
123	Synthesis and Electrochemical Study of Antifluorite-type Phases in the Li-M-N-O (M = Ti, V) Systems. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 2136-2141.	0.6	11
124	XAFS Investigations of $\text{LiNi}_{0.45}\text{Mn}_{0.45}\text{Co}_{0.1}\text{Al}_y\text{O}_2$ Positive Electrode Materials. Journal of the Electrochemical Society, 2012, 159, A1562-A1571.	1.3	11
125	Lithium Metal-Copper Vanadium Oxide Battery with a Block Copolymer Electrolyte. Journal of the Electrochemical Society, 2016, 163, A2447-A2455.	1.3	11
126	Direct characterization of the Li intercalation mechanism into V_2O_5 nanowires using <i>in-situ</i> transmission electron microscopy. Applied Physics Letters, 2017, 110, .	1.5	11

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127	Visualization of the Phase Propagation within Carbon-Free Li ₄ Ti ₅ O ₁₂ Battery Electrodes. Journal of Physical Chemistry C, 2016, 120, 29030-29038.	1.5	10
128	Intercalation of Ca into a Highly Defective Manganese Oxide at Room Temperature. Chemistry of Materials, 2022, 34, 836-846.	3.2	10
129	Characterization of Electrode Materials for Lithium Ion and Sodium Ion Batteries Using Synchrotron Radiation Techniques. Journal of Visualized Experiments, 2013, , e50594.	0.2	8
130	Electron Tomography Analysis of Reaction Path during Formation of Nanoporous NiO by Solid State Decomposition. Crystal Growth and Design, 2014, 14, 2453-2459.	1.4	8
131	Nanocrystal heterostructures of LiCoO ₂ with conformal passivating shells. Nanoscale, 2018, 10, 6954-6961.	2.8	8
132	Chemical Activity of the Peroxide/Oxide Redox Couple: Case Study of Ba ₅ Ru ₂ O ₁₁ in Aqueous and Organic Solvents. Chemistry of Materials, 2018, 30, 3882-3893.	3.2	8
133	Electrochemical Reactivity with Lithium of Spinel-type ZnFe ₂ Cr ₂ O ₄ (0 $\hat{\%}$ $\hat{\%}$ 2). Journal of Physical Chemistry C, 2013, 117, 24213-24223.	1.5	7
134	Effect of Synthetic Parameters on Defects, Structure, and Electrochemical Properties of Layered Oxide LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ . Journal of the Electrochemical Society, 2018, 165, A3537-A3543.	1.3	7
135	Probing Mg Intercalation in the Tetragonal Tungsten Bronze Framework V ₄ Nb ₁₈ O ₅₅ . Inorganic Chemistry, 2020, 59, 9783-9797.	1.9	7
136	Structural Changes and Reversibility Upon Deintercalation of Li from LiCoPO ₄ Derivatives. ACS Applied Materials & Interfaces, 2020, 12, 20570-20578.	4.0	7
137	Control of crystal size tailors the electrochemical performance of $\hat{\pm}$ -V ₂ O ₅ as a Mg ²⁺ intercalation host. Nanoscale, 2021, 13, 10081-10091.	2.8	7
138	Control of Size and Composition of Colloidal Nanocrystals of Manganese Oxide. Inorganic Chemistry, 2018, 57, 12900-12907.	1.9	6
139	Factors Defining the Intercalation Electrochemistry of CaFe ₂ O ₄ -Type Manganese Oxides. Chemistry of Materials, 2020, 32, 8203-8215.	3.2	6
140	NGenE 2021: Electrochemistry Is Everywhere. ACS Energy Letters, 2022, 7, 368-374.	8.8	6
141	Exploring order-disorder structural transitions in the Li-Nb-O system: The new antiferroite oxynitride Li ₁₁ NbN ₄ O ₂ . Journal of Solid State Chemistry, 2010, 183, 1609-1614.	1.4	5
142	Surface Chemistry, Passivation, and Electrode Performance in Core-Shell Architectures of LiCoO ₂ Nanoplates. ACS Applied Energy Materials, 2019, 2, 2149-2160.	2.5	5
143	Mapping and Metastability of Heterogeneity in LiMn ₂ O ₄ Battery Electrodes with High Energy Density. Journal of the Electrochemical Society, 2020, 167, 020526.	1.3	5
144	Mapping Competitive Reduction upon Charging in LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Primary Particles. Chemistry of Materials, 2020, 32, 6161-6175.	3.2	5

#	ARTICLE	IF	CITATIONS
145	Direct Evidence of Charge Transfer upon Anion Intercalation in Graphite Cathodes through New Electronic States: An Experimental and Theoretical Study of Hexafluorophosphate. Chemistry of Materials, 2020, 32, 2036-2043.	3.2	5
146	Facile Electrochemical Mg-Ion Transport in a Defect-Free Spinel Oxide. Chemistry of Materials, 2022, 34, 3789-3797.	3.2	5
147	Unprecedented Multifunctionality in 1D Nb _{1-x} Ta _x S ₃ Transition Metal Trichalcogenide Alloy. Advanced Functional Materials, 2022, 32, .	7.8	5
148	Synthesis and X-ray absorption spectroscopy of potassium transition metal fluoride nanocrystals. CrystEngComm, 2019, 21, 135-144.	1.3	4
149	Toward General Rules for the Design of Battery Electrodes Based on Titanium Oxides and Free of Conductive Additives. Energy Technology, 2014, 2, 383-390.	1.8	3
150	Intercalation of Mg into a Few-Layer Phyllosulfate in Nonaqueous Electrolytes at Room Temperature. Chemistry of Materials, 2020, 32, 6014-6025.	3.2	3
151	Structural Evolution of Layered Manganese Oxysulfides during Reversible Electrochemical Lithium Insertion and Copper Extrusion. Chemistry of Materials, 2021, 33, 3989-4005.	3.2	3
152	Access to Ru(IV)↔Ru(V) and Ru(V)↔Ru(VI) Redox in Layered Li ₇ RuO ₆ via Intercalation Reactions. Chemistry of Materials, 2022, 34, 3724-3735.	3.2	3
153	Intermediate phases during alkali metal intercalation in HfNCl. Solid State Sciences, 2007, 9, 310-317.	1.5	2
154	Modification of the electrochemical activity of LiMn _{1.95} Si _{0.05} O ₄ spinel via addition of phases with different physico-chemical properties. Journal of Materials Chemistry A, 2014, 2, 3216.	5.2	2
155	Electrochemical Insertion of Li into Sr ₂ MO ₂ Cu ₂ S ₂ (M = Mn, Co, Ni). Materials Research Society Symposia Proceedings, 2006, 988, 1.	0.1	1
156	Synthesis and Characterization of Core-Shell Nanocrystals of Co-Rich Cathodes. Journal of the Electrochemical Society, 2020, 167, 050501.	1.3	1
157	Electron-beam-induced Spinel to Defect Rocksalt Phase Transition in MgCrMnO ₄ . Microscopy and Microanalysis, 2020, 26, 788-790.	0.2	1
158	Redox Chemistry and Reversible Structural Changes in Rhombohedral VO ₂ F Cathode during Li Intercalation. Inorganic Chemistry, 2020, 59, 10048-10058.	1.9	1
159	sxdm: A python framework for analysis of Scanning X-Ray Diffraction Microscopy data. Software Impacts, 2021, 10, 100172.	0.8	1
160	Antifluorite-Type Lithium Chromium Oxide Nitrides: Synthesis, Structure, Order, and Electrochemical Properties.. ChemInform, 2005, 36, no.	0.1	0
161	Spinel-layered Li _{1.1} [Mn _{0.6} Co _{0.8} Ni _{0.6}]O ₄ nanocrystals: Synthesis and electrochemistry at high potentials. Journal of Solid State Chemistry, 2020, 288, 121365.	1.4	0
162	Evolution of Oxygen Ligands upon Large Redox Swings of Li ₃ IrO ₄ . Journal of the Electrochemical Society, 0, , .	1.3	0

#	ARTICLE	IF	CITATIONS
163	Transmission electron microscopy study of CoMnO catalyst nanoparticles. <i>Microscopy and Microanalysis</i> , 2021, 27, 2440-2442.	0.2	0
164	Investigation of structural defects and beam induced transitions in MgV ₂ O ₄ nanocrystals using atomic resolved scanning transmission electron microscopy.. <i>Microscopy and Microanalysis</i> , 2021, 27, 1502-1503.	0.2	0