

# Jagjit Nanda

## List of Publications by Year in descending order

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135  
papers

11,043  
citations

34016

52  
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31759

101  
g-index

144  
all docs

144  
docs citations

144  
times ranked

13231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of 2D Molybdenum Carbide (MXene). <i>Advanced Functional Materials</i> , 2016, 26, 3118-3127.	7.8	945
2	Single-exciton optical gain in semiconductor nanocrystals. <i>Nature</i> , 2007, 447, 441-446.	13.7	894
3	Large-scale delamination of multi-layers transition metal carbides and carbonitrides "MXenes". <i>Dalton Transactions</i> , 2015, 44, 9353-9358.	1.6	662
4	Characterizing the Li"Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> interface stability and kinetics as a function of temperature and current density. <i>Journal of Power Sources</i> , 2016, 302, 135-139.	4.0	446
5	Type-II Core/Shell CdS/ZnSe Nanocrystals: Synthesis, Electronic Structures, and Spectroscopic Properties. <i>Journal of the American Chemical Society</i> , 2007, 129, 11708-11719.	6.6	402
6	Impact of air exposure and surface chemistry on Li"Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> interfacial resistance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13475-13487.	5.2	300
7	The influence of FEC on the solvation structure and reduction reaction of LiPF <sub>6</sub> /EC electrolytes and its implication for solid electrolyte interphase formation. <i>Nano Energy</i> , 2019, 64, 103881.	8.2	239
8	Two-Dimensional Nb-Based M <sub>4</sub> C <sub>3</sub> Solid Solutions (MXenes). <i>Journal of the American Ceramic Society</i> , 2016, 99, 660-666.	1.9	234
9	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. <i>ACS Energy Letters</i> , 0, , 1399-1404.	8.8	228
10	Effect of the Thiol-Thiolate Equilibrium on the Photophysical Properties of Aqueous CdSe/ZnS Nanocrystal Quantum Dots. <i>Journal of the American Chemical Society</i> , 2005, 127, 10126-10127.	6.6	224
11	Electrochemical and rate performance study of high-voltage lithium-rich composition: Li <sub>1.2</sub> Mn <sub>0.525</sub> Ni <sub>0.175</sub> Co <sub>0.102</sub> . <i>Journal of Power Sources</i> , 2012, 199, 220-226.	4.0	210
12	Atomically localized plasmon enhancement in monolayer graphene. <i>Nature Nanotechnology</i> , 2012, 7, 161-165.	15.6	196
13	A comparative study on the oxidation of two-dimensional Ti <sub>3</sub> C <sub>2</sub> MXene structures in different environments. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12733-12743.	5.2	193
14	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. <i>ACS Nano</i> , 2017, 11, 11118-11126.	7.3	183
15	Light Amplification Using Inverted Core/Shell Nanocrystals: Towards Lasing in the Single-Exciton Regime. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10625-10630.	1.2	165
16	Nanoscale Morphological and Chemical Changes of High Voltage Lithium-Manganese Rich NMC Composite Cathodes with Cycling. <i>Nano Letters</i> , 2014, 14, 4334-4341.	4.5	163
17	Electrochemical performance of MXenes as K-ion battery anodes. <i>Chemical Communications</i> , 2017, 53, 6883-6886.	2.2	157
18	Artificial Solid Electrolyte Interphase To Address the Electrochemical Degradation of Silicon Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 10083-10088.	4.0	141

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19	Solid electrolyte coated high voltage layered layered lithium-rich composite cathode: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$ . Journal of Materials Chemistry A, 2013, 1, 5587.	5.2	137
20	Surface studies of high voltage lithium rich composition: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$ . Journal of Power Sources, 2012, 216, 179-186.	4.0	131
21	Influence of Lithium Salts on the Discharge Chemistry of Li-Air Cells. Journal of Physical Chemistry Letters, 2012, 3, 1242-1247.	2.1	123
22	A novel P3-type $\text{Na}_{2/3}\text{Mg}_{1/3}\text{Mn}_{2/3}\text{O}_2$ as high capacity sodium-ion cathode using reversible oxygen redox. Journal of Materials Chemistry A, 2019, 7, 1491-1498.	5.2	122
23	Spectroscopic Characterization of Solid Discharge Products in Li-Air Cells with Aprotic Carbonate Electrolytes. Journal of Physical Chemistry C, 2011, 115, 14325-14333.	1.5	114
24	Understanding the Low-Voltage Hysteresis of Anionic Redox in $\text{Na}_2\text{Mn}_3\text{O}_7$ . Chemistry of Materials, 2019, 31, 3756-3765.	3.2	112
25	Rational Design of a Multifunctional Binder for High-Capacity Silicon-Based Anodes. ACS Energy Letters, 2019, 4, 1171-1180.	8.8	108
26	Dendrite-Free Potassium Metal Anodes in a Carbonate Electrolyte. Advanced Materials, 2020, 32, e1906735.	11.1	107
27	Self-Assembly of Large Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy. ACS Applied Materials & Interfaces, 2017, 9, 13457-13470.	4.0	104
28	Local State-of-Charge Mapping of Lithium-Ion Battery Electrodes. Advanced Functional Materials, 2011, 21, 3282-3290.	7.8	102
29	Unraveling the Nanoscale Heterogeneity of Solid Electrolyte Interphase Using Tip-Enhanced Raman Spectroscopy. Joule, 2019, 3, 2001-2019.	11.7	99
30	Separator Effect on Zinc Electrodeposition Behavior and Its Implication for Zinc Battery Lifetime. Nano Letters, 2021, 21, 10446-10452.	4.5	94
31	High voltage stability of $\text{LiCoO}_2$ particles with a nano-scale Lipon coating. Electrochimica Acta, 2011, 56, 6573-6580.	2.6	91
32	Review of modification strategies in emerging inorganic solid-state electrolytes for lithium, sodium, and potassium batteries. Joule, 2022, 6, 543-587.	11.7	90
33	Effect of interface modifications on voltage fade in $0.5\text{Li}_2\text{MnO}_3 \cdot 0.5\text{LiNi}_{0.375}\text{Mn}_{0.375}\text{Co}_{0.25}\text{O}_2$ cathode materials. Journal of Power Sources, 2014, 249, 509-514.	4.0	89
34	Thermal Conductivity of Single-Wall Carbon Nanotube Dispersions: Role of Interfacial Effects. Journal of Physical Chemistry C, 2008, 112, 654-658.	1.5	88
35	Robust Solid/Electrolyte Interphase (SEI) Formation on Si Anodes Using Glyme-Based Electrolytes. ACS Energy Letters, 2021, 6, 1684-1693.	8.8	87
36	Light Amplification in the Single-Exciton Regime Using Exciton-Exciton Repulsion in Type-II Nanocrystal Quantum Dots. Journal of Physical Chemistry C, 2007, 111, 15382-15390.	1.5	84

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37	Anomalous Discharge Product Distribution in Lithium-Air Cathodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8401-8408.	1.5	79
38	Effect of Binder Architecture on the Performance of Silicon/Graphite Composite Anodes for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 3470-3478.	4.0	77
39	Lithium Iron Aluminum Nickelate, $\text{LiNi}_{1-x}\text{Fe}_y\text{Al}_z\text{O}_2$ "New Sustainable Cathodes for Next-Generation Cobalt-Free Li-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2002960.	11.1	77
40	Conductive surface modification of $\text{LiFePO}_4$ with nitrogen-doped carbon layers for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 4611.	6.7	76
41	Challenges and Opportunities for Fast Charging of Solid-State Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3734-3749.	8.8	76
42	An Artificial Solid Electrolyte Interphase Enables the Use of a $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ 5 V Cathode with Conventional Electrolytes. <i>Advanced Energy Materials</i> , 2013, 3, 1275-1278.	10.2	75
43	Three-Dimensionally Mesoporous $\text{Fe}_2\text{O}_3$ Electrodes with Good Rate Performance and Reduced Voltage Hysteresis. <i>Chemistry of Materials</i> , 2015, 27, 2803-2811.	3.2	74
44	High Capacity Adsorption-Dominated Potassium and Sodium Ion Storage in Activated Crumpled Graphene. <i>Advanced Energy Materials</i> , 2020, 10, 1903280.	10.2	72
45	In situ Raman microscopy during discharge of a high capacity silicon-carbon composite Li-ion battery negative electrode. <i>Electrochemistry Communications</i> , 2009, 11, 235-237.	2.3	71
46	Facet-Dependent Disorder in Pristine High-Voltage Lithium-Manganese-Rich Cathode Material. <i>ACS Nano</i> , 2014, 8, 12710-12716.	7.3	71
47	Next-Generation Cobalt-Free Cathodes " A Prospective Solution to the Battery Industry's Cobalt Problem. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	71
48	Electrolyte Solvation Structure at Solid-Liquid Interface Probed by Nanogap Surface-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2018, 12, 10159-10170.	7.3	70
49	Stable Potassium Metal Anodes with an Aluminum Current Collector through Improved Electrolyte Wetting. <i>Advanced Materials</i> , 2020, 32, e2002908.	11.1	70
50	Facile and scalable fabrication of polymer-ceramic composite electrolyte with high ceramic loadings. <i>Journal of Power Sources</i> , 2018, 390, 153-164.	4.0	68
51	Unrivaled combination of surface area and pore volume in micelle-templated carbon for supercapacitor energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13511-13525.	5.2	63
52	Multiangle Depolarized Dynamic Light Scattering of Short Functionalized Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7129-7133.	1.5	59
53	Advanced Lithium Battery Cathodes Using Dispersed Carbon Fibers as the Current Collector. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1060.	1.3	59
54	A Perspective on Coatings to Stabilize High-Voltage Cathodes: $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ with Sub-Nanometer Lipon Cycled with $\text{LiPF}_6$ Electrolyte. <i>Journal of the Electrochemical Society</i> , 2013, 160, A3113-A3125.	1.3	51

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55	A cellulose nanocrystal-based composite electrolyte with superior dimensional stability for alkaline fuel cell membranes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13350-13356.	5.2	51
56	Controlled Formation of Mixed Nanoscale Domains of High Capacity Fe <sub>2</sub> O <sub>3</sub> –FeF <sub>3</sub> Conversion Compounds by Direct Fluorination. <i>ACS Nano</i> , 2015, 9, 2530-2539.	7.3	51
57	Chemical Evolution in Silicon–Graphite Composite Anodes Investigated by Vibrational Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18641-18649.	4.0	50
58	Selenium-sulfur (SeS) fast charging cathode for sodium and lithium metal batteries. <i>Energy Storage Materials</i> , 2019, 20, 71-79.	9.5	50
59	Electrochemical Stability of Carbon Fibers Compared to Aluminum as Current Collectors for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1652-A1658.	1.3	48
60	Probing lithiation and delithiation of thick sintered lithium-ion battery electrodes with neutron imaging. <i>Journal of Power Sources</i> , 2019, 419, 127-136.	4.0	46
61	Nonpassivated Silicon Anode Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26593-26600.	4.0	45
62	Multifunctional Separator Allows Stable Cycling of Potassium Metal Anodes and of Potassium Metal Batteries. <i>Advanced Materials</i> , 2022, 34, e2105855.	11.1	45
63	Probing Multiscale Transport and Inhomogeneity in a Lithium-Ion Pouch Cell Using In Situ Neutron Methods. <i>ACS Energy Letters</i> , 2016, 1, 981-986.	8.8	43
64	Tailored crosslinking of Poly(ethylene oxide) enables mechanical robustness and improved sodium-ion conductivity. <i>Energy Storage Materials</i> , 2019, 21, 85-96.	9.5	43
65	Anomalously high elastic modulus of a poly(ethylene oxide)-based composite electrolyte. <i>Energy Storage Materials</i> , 2021, 35, 431-442.	9.5	42
66	Well-designed Crosslinked Polymer Electrolyte Enables High Ionic Conductivity and Enhanced Salt Solvation. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070539.	1.3	41
67	Elastic Single-Ion Conducting Polymer Electrolytes: Toward a Versatile Approach for Intrinsically Stretchable Functional Polymers. <i>Macromolecules</i> , 2020, 53, 3591-3601.	2.2	41
68	Atomic-Scale Mechanisms of Enhanced Electrochemical Properties of Mo-Doped Co-Free Layered Oxide Cathodes for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2019, 4, 2540-2546.	8.8	40
69	Electrode architectures for high capacity multivalent conversion compounds: iron (ii and iii) fluoride. <i>RSC Advances</i> , 2014, 4, 6730.	1.7	39
70	Operando Acoustic Monitoring of SEI Formation and Long-Term Cycling in NMC/SiGr Composite Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020517.	1.3	36
71	Frontiers of solid-state batteries. <i>MRS Bulletin</i> , 2018, 43, 740-745.	1.7	35
72	Multiscale and Multimodal Characterization of 2D Titanium Carbonitride MXene. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902207.	1.9	35

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73	Interfacial Reactions and Performance of $\text{Li}_{7/3}\text{La}_3\text{Zr}_2\text{O}_{12}$ -Stabilized Li-Sulfur Hybrid Cell. ACS Applied Materials & Interfaces, 2019, 11, 42042-42048.	4.0	34
74	Ion transport and association study of glyme-based electrolytes with lithium and sodium salts. Electrochimica Acta, 2019, 304, 239-245.	2.6	33
75	Multifunctional approaches for safe structural batteries. Journal of Energy Storage, 2021, 40, 102747.	3.9	33
76	Freeze Tape Cast Thick Mo Doped $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Electrodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A2603-A2610.	1.3	32
77	High-Capacity Organic Radical Mediated Phosphorus Anode for Sodium-Based Redox Flow Batteries. ACS Energy Letters, 2019, 4, 2593-2600.	8.8	32
78	Synthesis, Structure, and Electrochemical Performance of High Capacity $\text{Li}_2\text{Cu}_{0.5}\text{Ni}_{0.5}\text{O}_2$ Cathodes. Chemistry of Materials, 2015, 27, 6746-6754.	3.2	31
79	Improved Single-Ion Conductivity of Polymer Electrolyte via Accelerated Segmental Dynamics. ACS Applied Energy Materials, 2020, 3, 12540-12548.	2.5	31
80	Thermophysical properties of $\text{LiFePO}_4$ cathodes with carbonized pitch coatings and organic binders: Experiments and first-principles modeling. Journal of Power Sources, 2014, 251, 8-13.	4.0	30
81	Role of Surface Functionality in the Electrochemical Performance of Silicon Nanowire Anodes for Rechargeable Lithium Batteries. ACS Applied Materials & Interfaces, 2014, 6, 7607-7614.	4.0	30
82	Site-Specific Sodiation Mechanisms of Selenium in Microporous Carbon Host. Nano Letters, 2020, 20, 918-928.	4.5	30
83	Direct synthesis of nanostructured $\text{V}_2\text{O}_5$ films using solution plasma spray approach for lithium battery applications. Journal of Power Sources, 2011, 196, 10704-10711.	4.0	29
84	Solid state lithium metal batteries – Issues and challenges at the lithium-solid electrolyte interface. Current Opinion in Solid State and Materials Science, 2022, 26, 100999.	5.6	29
85	Machine Learning Modeling for Accelerated Battery Materials Design in the Small Data Regime. Advanced Energy Materials, 2022, 12, .	10.2	29
86	Formation of Iron Oxyfluoride Phase on the Surface of Nano- $\text{Fe}_3\text{O}_4$ Conversion Compound for Electrochemical Energy Storage. Journal of Physical Chemistry Letters, 2013, 4, 3798-3805.	2.1	28
87	Probing Electrolyte Solvents at Solid/Liquid Interface Using Gap-Mode Surface-Enhanced Raman Spectroscopy. Journal of the Electrochemical Society, 2019, 166, A178-A187.	1.3	28
88	Correlating Local Structure with Electrochemical Activity in $\text{Li}_2\text{MnO}_3$ . Journal of Physical Chemistry C, 2015, 119, 18022-18029.	1.5	26
89	Stable Electrolyte for High Voltage Electrochemical Double-Layer Capacitors. Journal of the Electrochemical Society, 2017, 164, A277-A283.	1.3	25
90	Multifunctional Utilization of Pitch-Coated Carbon Fibers in Lithium-Based Rechargeable Batteries. Advanced Energy Materials, 2021, 11, 2100135.	10.2	25

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91	Distilling nanoscale heterogeneity of amorphous silicon using tip-enhanced Raman spectroscopy (TERS) via multiresolution manifold learning. <i>Nature Communications</i> , 2021, 12, 578.	5.8	25
92	Crystal Chemistry and Electrochemistry of $\text{Li}_x\text{Mn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ Solid Solution Cathode Materials. <i>Chemistry of Materials</i> , 2017, 29, 6818-6828.	3.2	24
93	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. <i>Nano Letters</i> , 2020, 20, 2756-2762.	4.5	24
94	Investigating Multiscale Spatial Distribution of Sulfur in a CNT Scaffold and Its Impact on Li-S Cell Performance. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13146-13157.	1.5	24
95	Synthesis and Electrochemical and Structural Investigations of Oxidatively Stable $\text{Li}_2\text{MoO}_3$ and $\text{Li}_2\text{MoO}_3 \cdot (1-x)\text{Tj}$ . <i>ETQq1 1 0.784314</i> <a href="#">arXiv:2107.07101 [cond-mat.str-el]</a>	1.0	10
96	Nanostructured Silicon-Carbon 3D Electrode Architectures for High-Performance Lithium-Ion Batteries. <i>ACS Omega</i> , 2018, 3, 9598-9606.	1.6	23
97	Monolithic Composite Electrodes Comprising Silicon Nanoparticles Embedded in Lignin-derived Carbon Fibers for Lithium-Ion Batteries. <i>Energy Technology</i> , 2014, 2, 773-777.	1.8	22
98	In Situ Localized Surface Plasmon Resonance (LSPR) Spectroscopy to Investigate Kinetics of Chemical Bath Deposition of CdS Thin Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5033-5039.	1.5	22
99	High Areal Capacity Si/LiCoO <sub>2</sub> Batteries from Electrospun Composite Fiber Mats. <i>ChemSusChem</i> , 2017, 10, 1823-1831.	3.6	22
100	Mechanically Robust, Sodium-Ion Conducting Membranes for Nonaqueous Redox Flow Batteries. <i>ACS Energy Letters</i> , 2018, 3, 1640-1647.	8.8	22
101	New synthesis strategies to improve Co-Free $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ cathodes: Early transition metal d0 dopants and manganese pyrophosphate coating. <i>Journal of Power Sources</i> , 2020, 479, 228591.	4.0	22
102	Structural Transformations in High-Capacity $\text{Li}_2\text{Cu}_{0.5}\text{Ni}_{0.5}\text{O}_2$ Cathodes. <i>Chemistry of Materials</i> , 2017, 29, 2997-3005.	3.2	21
103	Direct Measure of Electrode Spatial Heterogeneity: Influence of Processing Conditions on Anode Architecture and Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55954-55970.	4.0	21
104	Solvent-Mediated Synthesis of Amorphous $\text{Li}_3\text{PS}_4$ /Polyethylene Oxide Composite Solid Electrolytes with High $\text{Li}^+$ Conductivity. <i>Chemistry of Materials</i> , 2020, 32, 8789-8797.	3.2	21
105	Modified coal char materials with high rate performance for battery applications. <i>Carbon</i> , 2021, 172, 414-421.	5.4	21
106	Understanding cation-disordered rocksalt oxyfluoride cathodes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7826-7837.	5.2	21
107	Evaluation of electrochemical performance and redox activity of Fe in Ti doped layered $\text{P2-Na}_{0.67}\text{Mn}_{0.5}\text{Fe}_{0.5}\text{O}_2$ cathode for sodium ion batteries. <i>Electrochimica Acta</i> , 2021, 380, 138156.	2.6	20
108	Phase evolution during lithium-indium halide superionic conductor dehydration. <i>Journal of Materials Chemistry A</i> , 2021, 9, 990-996.	5.2	19

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109	Heavily Tungsten-Doped Sodium Thioantimonate Solid-State Electrolytes with Exceptionally Low Activation Energy for Ionic Diffusion. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26158-26166.	7.2	18
110	Membrane design for non-aqueous redox flow batteries: Current status and path forward. <i>Chem</i> , 2022, 8, 1611-1636.	5.8	16
111	Engineering Redox Potential of Lithium Clusters for Electrode Material in Lithium-Ion Batteries. <i>Journal of Cluster Science</i> , 2017, 28, 2779-2793.	1.7	13
112	Formation of LiF Surface Layer During Direct Fluorination of High-Capacity Co-Free Disordered Rocksalt Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38221-38228.	4.0	13
113	Synthesizing High-Capacity Oxyfluoride Conversion Anodes by Direct Fluorination of Molybdenum Dioxide (MoO <sub>2</sub> ). <i>ChemSusChem</i> , 2020, 13, 3825-3834.	3.6	12
114	Promotional Effects of In on Non-Oxidative Methane Transformation Over Mo-ZSM-5. <i>Catalysis Letters</i> , 2016, 146, 1903-1909.	1.4	10
115	High-capacity electrode materials for electrochemical energy storage: Role of nanoscale effects. <i>Pramana - Journal of Physics</i> , 2015, 84, 1073-1086.	0.9	9
116	Investigation of Complex Intermediates in Solvent-Mediated Synthesis of Thiophosphate Solid-State Electrolytes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27396-27402.	1.5	9
117	Molten Salt Assisted Low-Temperature Electro-Catalytic Graphitization of Coal Chars. <i>Journal of the Electrochemical Society</i> , 2021, 168, 046504.	1.3	8
118	Calibration-Free Quantitative Analysis of Lithium-Ion Battery (LiB) Electrode Materials Using Laser-Induced Breakdown Spectroscopy (LIBS). <i>ACS Applied Energy Materials</i> , 2021, 4, 7259-7267.	2.5	8
119	Ambient Temperature Sodium Polysulfide Catholyte for Nonaqueous Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 080540.	1.3	7
120	Quantifying the chemical, electrochemical heterogeneity and spatial distribution of (poly) sulfide species using Operando SANS. <i>Energy Storage Materials</i> , 2021, 40, 219-228.	9.5	7
121	Effect of Composition on Mechanical Properties and Conductivity of the Dual-Ion Conductor Na <sub>1+x</sub> Mn <sub>2</sub> Zr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> for Solid-State Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 11684-11692.		6
122	Investigation of glass-ceramic lithium thiophosphate solid electrolytes using NMR and neutron scattering. <i>Materials Today Physics</i> , 2021, 21, 100478.	2.9	5
123	Cathode-Sulfide Solid Electrolyte Interfacial Instability: Challenges and Solutions. <i>Frontiers in Energy Research</i> , 2020, 0, .	1.2	4
124	High Energy Density and Stable Three-Dimensionally Structured Se-Loaded Bicontinuous Porous Carbon Battery Electrodes. <i>Energy Technology</i> , 2021, 9, 2100175.	1.8	4
125	Toward a mechanically stable solid electrolyte interphase. <i>Matter</i> , 2021, 4, 2119-2122.	5.0	4
126	Anion Coordination Improves High-Temperature Performance and Stability of NaPF <sub>6</sub> -Based Electrolytes for Supercapacitors. <i>Energies</i> , 2021, 14, 4409.	1.6	4



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127	Synthesis of metal chloride films: Influence of growth conditions on crystallinity. Thin Solid Films, 2019, 689, 137520.	0.8	3
128	Potassium Batteries: Dendrite-free Potassium Metal Anodes in a Carbonate Electrolyte (Adv. Mater.) Tj ETQq0 0 Q r g BT / Overlock 10 T	11.1	3
129	Egyptian blue: from pigment to battery electrodes. RSC Advances, 2021, 11, 19885-19889.	1.7	3
130	Halide sublattice dynamics drive Li-ion transport in antiperovskites. Journal of Materials Chemistry A, 2022, 10, 15731-15742.	5.2	3
131	Structural and Electrochemical Characterization of Thin Film Li <sub>2</sub> MoO <sub>3</sub> Electrodes. Journal of the Electrochemical Society, 2019, 166, A1015-A1021.	1.3	2
132	Heavily Tungsten-doped Sodium Thioantimonate Solid-state Electrolytes with Exceptionally Low Activation Energy for Ionic Diffusion. Angewandte Chemie, 2021, 133, 26362-26370.	1.6	2
133	Multifunctional Separator Allows Stable Cycling of Potassium Metal Anodes and of Potassium Metal Batteries (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	11.1	1
134	Selective Plasticization of Poly (ethylene oxide) (PEO) Block in Nanostructured Polystyrene- <i>b</i> -PEO- <i>b</i> -Polystyrene Triblock Copolymer Electrolytes. Journal of the Electrochemical Society, 2022, 169, 050506.	1.3	1
135	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. Microscopy and Microanalysis, 2020, 26, 2542-2544.	0.2	0