

# Ju Li

## List of Articles by Year in descending order

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64,613

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577

124

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1032

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632

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citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanochemical Synthesis and Characterization of Nanostructured ErB <sub>4</sub> and NdB <sub>4</sub> Rare-Earth Tetraborides. <i>Advanced Engineering Materials</i> , 2025, 27, .	2.9	1
2	Remove hydrogen and store it too: an acid-in-clay based electro-chemical solution. <i>Materials Horizons</i> , 2025, 12, 926-934.	10.2	1
3	Approaching coupled-cluster accuracy for molecular electronic structures with multi-task learning. <i>Nature Computational Science</i> , 2025, 5, 144-154.	11.6	18
4	Linear and nonlinear Edelstein effects in chiral topological semimetals. <i>Materials today quantum</i> , 2025, 5, 100022.	0.0	2
5	Resolving electrochemically triggered topological defect dynamics and structural degradation in layered oxides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2025, 122, .	7.5	8
6	Generative Model for Constructing Reaction Path from Initial to Final States. <i>Journal of Chemical Theory and Computation</i> , 2025, 21, 1292-1305.	5.1	4
7	Geological ammonia: Stimulated NH <sub>3</sub> production from rocks. <i>Joule</i> , 2025, 9, 101805.	25.7	11
8	Hybrid solvating electrolytes for practical sodium-metal batteries. <i>Joule</i> , 2025, 9, 101811.	25.7	47
9	Nonlinear Ion Dynamics Enable Spike Timing Dependent Plasticity of Electrochemical Ionic Synapses. <i>Advanced Materials</i> , 2025, 37, .	24.5	10
10	Strong long-wave infrared optical response in a topological semiconductor with a Mexican-hat band structure. <i>Physical Review B</i> , 2025, 111, .	3.4	0
11	Multilayer alumina/aluminum coatings for damage-resistant hydrogen permeation barrier. <i>International Journal of Hydrogen Energy</i> , 2025, 106, 226-230.	9.0	14
12	High-Entropy Non-Flammable Ionic Liquid/Dimethoxymethane Composite Electrolyte for High-Performance Lithium-Ion Batteries. <i>Advanced Science</i> , 2025, 12, .	12.6	11
13	Electrochemical potential in multilayer solid electrolytes and mechanical implications. <i>Acta Materialia</i> , 2025, 291, 120982.	8.7	0
14	Atomistic simulations of short-range ordering with light interstitials in Inconel superalloys. <i>Computational Materials Science</i> , 2025, 253, 113858. <a href="#">Electric field-assisted synthesis of single-atomic TiO</a>	3.2	3
15	x C	10.9	18
16	Thick electrodes for electrochemical relithiation to regenerate spent battery powder. <i>Energy Storage Materials</i> , 2025, 78, 104269.	18.1	10
17	Upcycling spent medium-Ni cathodes via novel liquified salt sourcing. <i>Energy and Environmental Science</i> , 2025, 18, 5902-5912.	30.8	9
18	Advances in sodium all-solid-state batteries: Insights into sulfide solid electrolytes and their applications. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2025, , 106110.	5.7	3

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19	Hydrogen can both move or pin dislocations in body-centered cubic metals. <i>Nature Communications</i> , 2025, 16, .	13.7	16
20	Additive manufacturing of strong and ductile In939+TiB2 by laser powder bed fusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2025, 939, 148446.	6.3	18
21	Rapid electrothermal rejuvenation of spent lithium cobalt oxide cathode. <i>Energy and Environmental Science</i> , 2025, 18, 6085-6093.	30.8	14
22	Nanoscale Origin of the Soft-to-Hard Short-Circuit Transition in Inorganic Solid-State Electrolytes. <i>Journal of the American Chemical Society</i> , 2025, 147, 19084-19092.	15.0	18
23	N-doped hard carbon with closed-pore structure via a high-pressure nitrogen doping approach as anodes for Sodium-ion batteries. <i>Electrochimica Acta</i> , 2025, 534, 146552.	5.3	8
24	Segregation and ordering of light interstitials (B, C, H, and N) in Cr–Ni alloys: Implications for grain boundary stability in superalloy design. <i>Acta Materialia</i> , 2025, 296, 121221.	8.7	9
25	An actor–critic algorithm to maximize the power delivered from direct methanol fuel cells. <i>Nature Energy</i> , 2025, 10, 951-961.	50.7	9
26	Line and planar defects with zero formation free energy: Applications of the phase rule towards ripening-immune microstructures. <i>Acta Materialia</i> , 2025, 298, 121364.	8.7	3
27	Rapid exploration of nanoparticle-modified alloys in metal additive manufacturing by combining inkjet printing and laser powder bed fusion. <i>Additive Manufacturing Letters</i> , 2025, 14, 100315.	2.7	0
28	Impact of frequency-domain filtering on facial expression recognition in spatial domain. <i>Chinese Optics Letters</i> , 2025, 23, 081103.	2.6	0
29	Stable Metal–Organic Electrocatalysts for Anion-Exchange Membrane Water Electrolyzers by Defect Engineering. <i>Journal of the American Chemical Society</i> , 2025, 147, 29838-29851.	15.0	25
30	Boron-10 stimulated helium production and accelerated radiation displacements for rapid development of fusion structural materials. <i>Journal of Materiomics</i> , 2024, 10, 377-385.	6.7	6
31	Can ChatGPT be used to generate scientific hypotheses?. <i>Journal of Materiomics</i> , 2024, 10, 578-584.	6.7	44
32	Acetamide–Caprolactam Deep Eutectic Solvent–Based Electrolyte for Stable Zn–Metal Batteries. <i>Advanced Materials</i> , 2024, 36, .	24.5	105
33	Metal matrix composite with superior ductility at 800°C: 3D printed In718+ZrB2 by laser powder bed fusion. <i>Composites Part B: Engineering</i> , 2024, 268, 111052.	12.8	55
34	Operando Spatial and Temporal Tracking of Axial Stresses and Interfaces in Solid-state Batteries. <i>Small</i> , 2024, 20, .	11.5	4
35	Reinforcement Learning–Guided Long–Timescale Simulation of Hydrogen Transport in Metals. <i>Advanced Science</i> , 2024, 11, .	12.6	9
36	Electrochemical shock and transverse cracking in solid electrolytes. <i>Acta Materialia</i> , 2024, 265, 119620.	8.7	10

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37	Controllable long-term lithium replenishment for enhancing energy density and cycle life of lithium-ion batteries. <i>Energy and Environmental Science</i> , 2024, 17, 1163-1174.	30.8	93
38	Electrochemical Ionic Synapses with Mg <sup>2+</sup> as the Working Ion. <i>Advanced Electronic Materials</i> , 2024, 10, .	4.9	7
39	Demonstration of Helide formation for fusion structural materials as natural lattice sinks for helium. <i>Acta Materialia</i> , 2024, 266, 119654.	8.7	4
40	Thermalization of electron-hole pairs in $\text{LaBr}_3$ and CLLB: Monte Carlo simulation. <i>Physical Review Materials</i> , 2024, 8, .	2.7	0
41	Phonon stability boundary and deep elastic strain engineering of lattice thermal conductivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2024, 121, .	7.5	9
42	ANALYSIS OF TRANSLATE XI JINPING'S SPEECH AT THE 20TH NATIONAL CONGRESS OF THE COMMUNIST PARTY OF CHINA INTO RUSSIAN (BY USING TRANSLATION-ORIENTED METHOD). , 2024, , 25-42.		1
43	$^4\text{He}$ -Deep Neutron Bound States in Nanocrystals. <i>ACS Nano</i> , 2024, 18, 9063-9070.	15.3	2
44	Exponentially Enhanced Non-Hermitian Cooling. <i>Physical Review Letters</i> , 2024, 132, .	8.2	11
45	Tri-metallic Catalyst for Oxygen Evolution Reaction Enables Continuous Operation of Anion Exchange Membrane Electrolyzer at 1A/cm <sup>2</sup> for Hundreds of Hours. <i>Advanced Energy Materials</i> , 2024, 14, .	22.5	31
46	Highly Selective and Reversible Detection of Simulated Breath Hydrogen Sulfide Using Fe-Doped CuO Hollow Spheres: Enhanced Surface Redox Reaction by Multi-valent Catalysts. <i>Small</i> , 2024, 20, .	11.5	17
47	A short wave radar beam sharpening method based on generalised oblique projection operator with flexible parameter. <i>IET Radar, Sonar and Navigation</i> , 2024, 18, 1132-1144.	1.4	1
48	Machine learning traction force maps for contractile cell monolayers. <i>Extreme Mechanics Letters</i> , 2024, 68, 102150.	4.1	6
49	Machine learning for CO <sub>2</sub> capture and conversion: A review. <i>Energy and AI</i> , 2024, 16, 100361.	9.4	49
50	Trailblazing Kr/Xe Separation: The Birth of the First Kr-Selective Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2024, 16, 29364-29373.	8.0	7
51	Double Nitrogenation Layer Formed Using Nitric Oxide for Enhancing Li <sup>+</sup> Storage Performance, Cycling Stability, and Safety of Si Electrodes. <i>Advanced Science</i> , 2024, 11, .	12.6	11
52	The anti-dogbone: Evaluating and designing optimal tensile specimens for deep learning of constitutive relations. <i>Extreme Mechanics Letters</i> , 2024, 69, 102157.	4.1	7
53	Intercalation in 2D materials and in situ studies. <i>Nature Reviews Chemistry</i> , 2024, 8, 410-432.	46.6	161
54	Superconductivity and Pronounced Electron-Phonon Coupling in Rock-Salt $\text{Al}_x\text{O}_{1-x}$ and $\text{Ti}_x\text{O}_{1-x}$ . <i>Advanced Electronic Materials</i> , 2024, 10, .	4.9	1

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55	Core-shell Si@SiOC Particles Synthesized Using Supercritical Carbon Dioxide Fluid for Superior Li-ion Storage Performance. <i>Advanced Science</i> , 2024, 11, .	12.6	22
56	Nano-crystalline Fe <sub>3</sub> V <sub>3</sub> O <sub>8</sub> material as an efficient advanced anode for energy storage applications. <i>Journal of Power Sources</i> , 2024, 613, 234947.	7.9	16
57	Precise Fermi level engineering in a topological Weyl semimetal via fast ion implantation. <i>Applied Physics Reviews</i> , 2024, 11, .	10.4	4
58	A Cobalt-Platinum-Ruthenium System for Acidic Methanol Oxidation. <i>Chemistry of Materials</i> , 2024, 36, 6938-6949.	6.7	14
59	Inward motion of diamond nanoparticles inside an iron crystal. <i>Nature Communications</i> , 2024, 15, .	13.7	3
60	Uncovering fast solid-acid proton conductors based on dynamics of polyanion groups and proton bonding strength. <i>Energy and Environmental Science</i> , 2024, 17, 5730-5742.	30.8	19
61	Avoiding electrochemical indentations: a CNT-cocooned LiCoO <sub>2</sub> electrode with ultra-stable high-voltage cycling. <i>Energy and Environmental Science</i> , 2024, 17, 6102-6112.	30.8	15
62	Uniting activity design principles of anode catalysts for direct liquid fuel cells. <i>EES Catalysis</i> , 2024, 2, 1186-1209.	7.4	12
63	Efficient quantum transduction using antiferromagnetic topological insulators. <i>Physical Review B</i> , 2024, 110, .	3.4	4
64	Integrated rocksalt polyanion cathodes with excess lithium and stabilized cycling. <i>Nature Energy</i> , 2024, 9, 1497-1505.	50.7	55
65	Time mesh independent framework for learning materials constitutive relationships. <i>Engineering Applications of Artificial Intelligence</i> , 2024, 137, 109165.	7.6	1
66	A "seat-squatting" strategy via lithium substitution to suppress Fe-migration in Na layered oxide cathodes. <i>Energy and Environmental Science</i> , 2024, 17, 7958-7968.	30.8	43
67	1.5 million materials narratives generated by chatbots. <i>Scientific Data</i> , 2024, 11, .	5.7	10
68	Burst plasma preparation of metallic nanoparticles on carbon fabrics for antibacterial and electrocatalytic applications. <i>NPG Asia Materials</i> , 2024, 16, .	7.4	0
69	A Self-Healing, Flowable, Yet Solid Electrolyte Suppresses Li-Metal Morphological Instabilities. <i>Advanced Materials</i> , 2024, 36, .	24.5	16
70	Temperature-Dependent Surface Anisotropy in (110) Epitaxial Rare Earth Iron Garnet Films. <i>Small</i> , 2024, 20, .	11.5	3
71	Scaled vertical-nanowire heterojunction tunnelling transistors with extreme quantum confinement. <i>Nature Electronics</i> , 2024, , .	33.3	10
72	Crossover Management for Practical High Efficiency Carbon Dioxide Reduction. <i>ECS Meeting Abstracts</i> , 2024, MA2024-02, 4241-4241.	0.0	0

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73	(Invited) Human-AI-Robotics Collaboration for Catalysts Discovery in Electrochemical Reactions. ECS Meeting Abstracts, 2024, MA2024-02, 4820-4820.	0.0	0
74	A Carbon-Efficient Bicarbonate Electrolyzer. ECS Meeting Abstracts, 2024, MA2024-02, 4186-4186.	0.0	0
75	Electrochemical Ionic Synapses: Progress and Perspectives. Advanced Materials, 2023, 35, .	24.5	80
76	Fabrication of liquid cell for in situ transmission electron microscopy of electrochemical processes. Nature Protocols, 2023, 18, 555-578.	14.4	101
77	Oxide Cathodes: Functions, Instabilities, Self Healing, and Degradation Mitigations. Chemical Reviews, 2023, 123, 811-833.	52.6	148
78	Pre-zeolite framework super-MIEC anodes for high-rate lithium-ion batteries. Energy and Environmental Science, 2023, 16, 241-251.	30.8	36
79	Size-controllable synthesis of covalently interconnected few-shelled Fe <sub>3</sub> O <sub>4</sub> @onion-like carbons for high-performance asymmetric supercapacitors. Carbon, 2023, 203, 261-272.	10.7	28
80	Tension-Induced Cavitation in Li-Metal Stripping. Advanced Materials, 2023, 35, .	24.5	27
81	A New Zinc Salt Chemistry for Aqueous Zinc-Metal Batteries. Advanced Materials, 2023, 35, .	24.5	71
82	Stalling oxygen evolution in high-voltage cathodes by lanthanization. Nature Energy, 2023, 8, 159-168.	50.7	235
83	Towards universal neural network interatomic potential. Journal of Materiomics, 2023, 9, 447-454.	6.7	54
84	Ion-beam radiation-induced Eshelby transformations: The mean and variance in hydrostatic and shear residual stresses. Extreme Mechanics Letters, 2023, 59, 101970.	4.1	0
85	Multiphase Polarization in Ion-Intercalation Nanofilms: General Theory Including Various Surface Effects and Memory Applications. Advanced Functional Materials, 2023, 33, .	17.0	5
86	Laser Cooling of Nuclear Magnons. Physical Review Letters, 2023, 130, .	8.2	4
87	Synthesis of atomically thin sheets by the intercalation-based exfoliation of layered materials. Nature Synthesis, 2023, 2, 101-118.	18.1	228
88	Two-Photon Interface of Nuclear Spins Based on the Optonuclear Quadrupolar Effect. Physical Review X, 2023, 13, .	11.8	5
89	One dimensional wormhole corrosion in metals. Nature Communications, 2023, 14, .	13.7	71
90	Strengthening additively manufactured Inconel 718 through in-situ formation of nanocarbides and silicides. Additive Manufacturing, 2023, 67, 103478.	3.3	10

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91	Ultra-Thin Lithium Silicide Interlayer for Solid-State Lithium-Metal Batteries. <i>Advanced Materials</i> , 2023, 35, .	24.5	61
92	Chloride electrolyte enabled practical zinc metal battery with a near-unity Coulombic efficiency. <i>Nature Sustainability</i> , 2023, 6, 806-815.	21.4	290
93	First-Principles Calculation of the Temperature-Dependent Transition Energies in Spin Defects. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 3266-3273.	4.2	17
94	Thousands of conductance levels in memristors integrated on CMOS. <i>Nature</i> , 2023, 615, 823-829.	38.0	433
95	Mechanochemical upcycling of spent LiCoO <sub>2</sub> to new LiNi <sub>0.80</sub> Co <sub>0.15</sub>	7.5	57
96	Eutectic salt-assisted planetary centrifugal deagglomeration for single-crystalline cathode synthesis. <i>Nature Energy</i> , 2023, 8, 482-491.	50.7	126
97	Communication-Efficient Quantum Algorithm for Distributed Machine Learning. <i>Physical Review Letters</i> , 2023, 130, .	8.2	9
98	Quantitative tests revealing hydrogen-enhanced dislocation motion in $\hat{\epsilon}$ -iron. <i>Nature Materials</i> , 2023, 22, 710-716.	33.4	118
99	Robust deep learning framework for constitutive relations modeling. <i>Acta Materialia</i> , 2023, 254, 118959.	8.7	23
100	NdB <sub>6</sub> ceramic nanoparticles: First principles calculations, mechanochemical synthesis and strain engineering. <i>Journal of Materials Research and Technology</i> , 2023, 24, 5571-5587.	6.1	9
101	Pulsed Light Synthesis of High Entropy Nanocatalysts with Enhanced Catalytic Activity and Prolonged Stability for Oxygen Evolution Reaction. <i>Advanced Science</i> , 2023, 10, .	12.6	33
102	N <sub>2</sub> -Containing Carbon-Coated $\hat{\epsilon}$ -Si <sub>3</sub> N <sub>4</sub> Enhances Si Anodes for High-Performance Li-Ion Batteries. <i>Advanced Science</i> , 2023, 10, .	12.6	23
103	Evolving corundum nanoparticles at room temperature. <i>Acta Materialia</i> , 2023, 255, 119038.	8.7	13
104	Long-distance interface diffusion induced non-volume-conserved deformation in self-supported submicron-sized aluminum pillars. <i>Acta Materialia</i> , 2023, 255, 119092.	8.7	1
105	Recent Advances and Future Prospects for Memristive Materials, Devices, and Systems. <i>ACS Nano</i> , 2023, 17, 11994-12039.	15.3	248
106	Earth-Abundant Na-Mg-Fe-Mn-O Cathode with Reversible Hybrid Anionic and Cationic Redox. <i>Advanced Energy Materials</i> , 2023, 13, .	22.5	81
107	Caught in the crossfire: Fears of Chinese-American scientists. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	7.5	38
108	Improving Proton Conductivity by Navigating Proton Trapping in High Scandium-Doped Barium Zirconate Electrolytes. <i>Chemistry of Materials</i> , 2023, 35, 5341-5352.	6.7	28

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109	Self-Discharge Behavior of Graphitic Cathodes for Rechargeable Aluminum Batteries. <i>Advanced Functional Materials</i> , 2023, 33, .	17.0	13
110	Characterizing Temperature and Strain Variations with Qubit Ensembles for Their Robust Coherence Protection. <i>Physical Review Letters</i> , 2023, 131, .	8.2	15
111	Giant room-temperature nonlinearities in a monolayer Janus topological semiconductor. <i>Nature Communications</i> , 2023, 14, .	13.7	47
112	A large-area lithium metal-carbon nanotube film for precise contact prelithiation in lithium-ion batteries. <i>Energy and Environmental Science</i> , 2023, 16, 4660-4669.	30.8	61
113	Manipulating solid-state spin concentration through charge transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	7.5	8
114	Solid-state Th <sup>229</sup> nuclear laser with two-photon pumping. <i>Physical Review A</i> , 2023, 108, .	2.7	8
115	High Entropy Oxides Synthesis by Rapid Plasma Generation with Applications Towards Electrocatalytic Hydrogen Generation. <i>ECS Meeting Abstracts</i> , 2023, MA2023-01, 1500-1500.	0.0	1
116	A carbon-efficient bicarbonate electrolyzer. <i>Cell Reports Physical Science</i> , 2023, 4, 101662.	4.9	32
117	Spatial-temporal distribution characteristics of pollutants of heavy-duty diesel vehicles in urban road networks: a case study of Kunming City. <i>Environmental Science and Pollution Research</i> , 2023, 30, 126072-126087.	4.3	2
118	Machine learning of metal-ceramic wettability. <i>Journal of Materiomics</i> , 2022, 8, 195-203.	6.7	12
119	EML webinar overview: Elastic Strain Engineering for unprecedented properties. <i>Extreme Mechanics Letters</i> , 2022, 54, 101430.	4.1	8
120	Deep neural network battery life and voltage prediction by using data of one cycle only. <i>Applied Energy</i> , 2022, 306, 118134.	10.5	138
121	Effects of Elemental Modulation on Phase Purity and Electrochemical Properties of Co-free High-Entropy Spinel Oxide Anodes for Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	17.0	141
122	Machine learning in nuclear materials research. <i>Current Opinion in Solid State and Materials Science</i> , 2022, 26, 100975.	12.3	111
123	Learning constitutive relations of plasticity using neural networks and full-field data. <i>Extreme Mechanics Letters</i> , 2022, 52, 101645.	4.1	21
124	In situ TEM visualization of LiF nanosheet formation on the cathode-electrolyte interphase (CEI) in liquid-electrolyte lithium-ion batteries. <i>Matter</i> , 2022, 5, 1235-1250.	16.0	124
125	Rejuvenation of plasticity via deformation graining in magnesium. <i>Nature Communications</i> , 2022, 13, .	13.7	56
126	Cryo-Electron Tomography of Highly Deformable and Adherent Solid-Electrolyte Interphase Exoskeleton in Li-Metal Batteries with Ether-Based Electrolyte. <i>Advanced Materials</i> , 2022, 34, .	24.5	37

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127	Evidence of fifth- and higher-order phonon scattering entropy of zone-center optical phonons. <i>Physical Review B</i> , 2022, 105, .	3.4	21
128	Synthesizing Functional Ceramic Powders for Solid Oxide Cells in Minutes through Thermal Shock. <i>ACS Energy Letters</i> , 2022, 7, 1223-1229.	17.0	12
129	Pressureless two-step sintering of ultrafine-grained refractory metals: Tungsten-rhenium and molybdenum. <i>Journal of Materials Science and Technology</i> , 2022, 126, 203-214.	13.6	50
130	TeaNet: Universal neural network interatomic potential inspired by iterative electronic relaxations. <i>Computational Materials Science</i> , 2022, 207, 111280.	3.2	88
131	Intelligent disassembly of electric-vehicle batteries: a forward-looking overview. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106207.	10.7	149
132	Dislocation-Mediated Hydride Precipitation in Zirconium. <i>Small</i> , 2022, 18, .	11.5	18
133	Revitalizing interface in protonic ceramic cells by acid etch. <i>Nature</i> , 2022, 604, 479-485.	38.0	366
134	Ultralong one-dimensional plastic zone created in aluminum underneath a nanoscale indent. <i>Acta Materialia</i> , 2022, 232, 117944.	8.7	24
135	Acid-Clay Electrolyte for Wide-Temperature-Range and Long-Cycle Proton Batteries. <i>Advanced Materials</i> , 2022, 34, .	24.5	57
136	Enhanced mobility of cations and anions in the redox state: The polaronium mechanism. <i>Acta Materialia</i> , 2022, 232, 117941.	8.7	35
137	Anodic Shock-Triggered Exsolution of Metal Nanoparticles from Perovskite Oxide. <i>Journal of the American Chemical Society</i> , 2022, 144, 7657-7666.	15.0	41
138	Impacts of underwater topography on the distribution of microplastics in lakes: A case from Dianchi Lake, China. <i>Science of the Total Environment</i> , 2022, 837, 155708.	8.4	28
139	Battery degradation prediction against uncertain future conditions with recurrent neural network enabled deep learning. <i>Energy Storage Materials</i> , 2022, 50, 139-151.	18.1	208
140	Abnormal nonlinear optical responses on the surface of topological materials. <i>Npj Computational Materials</i> , 2022, 8, .	10.7	13
141	Charge-Discharge Mechanism of High-Entropy Co-Free Spinel Oxide Toward Li+ Storage Examined Using Operando Quick-Scanning X-Ray Absorption Spectroscopy. <i>Advanced Science</i> , 2022, 9, .	12.6	79
142	Generalized Wilson loop method for nonlinear light-matter interaction. <i>Npj Quantum Materials</i> , 2022, 7, .	6.0	32
143	An Unbalanced Battle in Excellence: Revealing Effect of Ni/Co Occupancy on Water Splitting and Oxygen Reduction Reactions in Triple-Conducting Oxides for Protonic Ceramic Electrochemical Cells. <i>Small</i> , 2022, 18, .	11.5	53
144	Nonlinear nonreciprocal photocurrents under phonon dressing. <i>Physical Review B</i> , 2022, 106, .	3.4	5

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145	Thermoelectric power generation in the core of a nuclear reactor. <i>Energy Conversion and Management</i> , 2022, 268, 115949.	10.5	16
146	Carbothermal Shock Synthesis of High Entropy Oxide Catalysts: Dynamic Structural and Chemical Reconstruction Boosting the Catalytic Activity and Stability toward Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2022, 12, .	22.5	204
147	Giant and Controllable Photoplasticity and Photoelasticity in Compound Semiconductors. <i>Physical Review Letters</i> , 2022, 129, .	8.2	19
148	Revealing hidden defects through stored energy measurements of radiation damage. <i>Science Advances</i> , 2022, 8, .	10.9	31
149	High accuracy neural network interatomic potential for NiTi shape memory alloy. <i>Acta Materialia</i> , 2022, 238, 118217.	8.7	35
150	Electrochemical pumping: An alternative solution for hydrogen embrittlement. <i>Applied Materials Today</i> , 2022, 29, 101627.	3.8	2
151	Coupled effect of water absorption and ion transport in hydrated latex anti-corrosion coatings. <i>Journal of Coatings Technology Research</i> , 2022, 20, 187-200.	2.3	3
152	Materials Genomics Search for Possible Helium-Absorbing Nano-Phases in Fusion Structural Materials. <i>Advanced Science</i> , 2022, 9, .	12.6	4
153	Stretchable separator/current collector composite for superior battery safety. <i>Energy and Environmental Science</i> , 2022, 15, 5313-5323.	30.8	65
154	Interfacial Engineering of Protonic Ceramic Electrochemical Cells By Acid Etch. <i>ECS Meeting Abstracts</i> , 2022, MA2022-02, 1951-1951.	0.0	0
155	Lithium Manganese Spinel Cathodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, .	22.5	341
156	Ultra-Uniform Nanocrystalline Materials via Two-Step Sintering. <i>Advanced Functional Materials</i> , 2021, 31, .	17.0	88
157	Coarse-grained reduced Mo Ti <sup>1+</sup> Nb <sub>2</sub> O <sub>7</sub> + anodes for high-rate lithium-ion batteries. <i>Energy Storage Materials</i> , 2021, 34, 574-581.	18.1	29
158	Carbon nanotube (CNT) metal composites exhibit greatly reduced radiation damage. <i>Acta Materialia</i> , 2021, 203, 116483.	8.7	29
159	Additive manufacturing for energy: A review. <i>Applied Energy</i> , 2021, 282, 116041.	10.5	335
160	Chemical and structural origin of hole states in yttria-stabilized zirconia. <i>Acta Materialia</i> , 2021, 203, 116487.	8.7	26
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