

Yong Lu

List of Publications by Year in descending order

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7,579
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81900

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88630

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5609
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafine RuO ₂ nanoparticles/MWCNTs cathodes for rechargeable Na-CO ₂ batteries with accelerated kinetics of Na ₂ CO ₃ decomposition. Chinese Chemical Letters, 2023, 34, 107405.	9.0	4
2	Insights into Redox Processes and Correlated Performance of Organic Carbonyl Electrode Materials in Rechargeable Batteries. Advanced Materials, 2022, 34, e2104150.	21.0	69
3	An MXene-Based Metal Anode with Stepped Sodiophilic Gradient Structure Enables a Large Current Density for Rechargeable Na ⁺ Batteries. Advanced Materials, 2022, 34, e2106565.	21.0	35
4	High-performance all-solid-state electrolyte for sodium batteries enabled by the interaction between the anion in salt and Na ₃ Sb ₄ . Chemical Science, 2022, 13, 3416-3423.	7.4	20
5	Gradient doping Mg and Al to stabilize Ni-rich cathode materials for rechargeable lithium-ion batteries. Journal of Power Sources, 2022, 535, 231445.	7.8	33
6	Quinone Electrodes for Alkali-Acid Hybrid Batteries. Journal of the American Chemical Society, 2022, 144, 8066-8072.	13.7	23
7	Recent Progress on Layered Cathode Materials for Nonaqueous Rechargeable Magnesium Batteries. Small, 2021, 17, e1902767.	10.0	55
8	CuP ₂ as high-capacity and long-cycle-life anode for potassium-ion batteries. Journal of Energy Chemistry, 2021, 63, 246-252.	12.9	18
9	Aromaticity/Antiaromaticity Effect on Activity of Transition Metal Macrocyclic Complexes towards Electrocatalytic Oxygen Reduction. ChemSusChem, 2021, 14, 1835-1839.	6.8	10
10	Rechargeable K ₂ Batteries with a KSn Anode and a Carboxyl-Containing Carbon Nanotube Cathode Catalyst. Angewandte Chemie - International Edition, 2021, 60, 9540-9545.	13.8	23
11	Rechargeable K ₂ Batteries with a KSn Anode and a Carboxyl-Containing Carbon Nanotube Cathode Catalyst. Angewandte Chemie, 2021, 133, 9626-9631.	2.0	5
12	High-Energy-Density Quinone-Based Electrodes with [Al(OTf)] ²⁺ Storage Mechanism for Rechargeable Aqueous Aluminum Batteries. Advanced Functional Materials, 2021, 31, 2102063.	14.9	61
13	A Low-Strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium-Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 13050-13056.	13.8	90
14	A Low-Strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium-Ion Batteries. Angewandte Chemie, 2021, 133, 13160-13166.	2.0	16
15	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via d ^π -π Conjugation. Angewandte Chemie, 2021, 133, 17074-17078.	2.0	9
16	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via d ^π -π Conjugation. Angewandte Chemie - International Edition, 2021, 60, 16937-16941.	13.8	74
17	Synthesis and electrochemical properties of zinc germanate nanowires as novel anode material for lithium-ion battery. Ionics, 2021, 27, 4177-4184.	2.4	5
18	Chaotropic Anion and Fast-Kinetics Cathode Enabling Low-Temperature Aqueous Zn Batteries. ACS Energy Letters, 2021, 6, 2704-2712.	17.4	153

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19	Structure-Performance Relationships of Covalent Organic Framework Electrode Materials in Metal-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8061-8071.	4.6	26
20	Insights into the Ionic Conduction Mechanism of Quasi-Solid Polymer Electrolytes through Multispectral Characterization. <i>Angewandte Chemie</i> , 2021, 133, 22854-22859.	2.0	5
21	Designing Anion-Free Zn ²⁺ Solvation Structure for Robust Zn Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23357-23364.	13.8	179
22	An Ionic Liquid Electrolyte with Enhanced Li ⁺ Transport Ability Enables Stable Li Deposition for High-Performance Li ₂ O Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25973-25980.	13.8	35
23	Designing Anion-Free Zn ²⁺ Solvation Structure for Robust Zn Metal Anode. <i>Angewandte Chemie</i> , 2021, 133, 23545-23552.	2.0	57
24	An Ionic Liquid Electrolyte with Enhanced Li ⁺ Transport Ability Enables Stable Li Deposition for High-Performance Li ₂ O Batteries. <i>Angewandte Chemie</i> , 2021, 133, 26177-26184.	2.0	11
25	Insights into the Ionic Conduction Mechanism of Quasi-Solid Polymer Electrolytes through Multispectral Characterization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22672-22677.	13.8	72
26	In Situ Polymerized Conjugated Poly(pyrene-4,5,9,10-tetraone)/Carbon Nanotubes Composites for High-Performance Cathode of Sodium Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2002917.	19.5	69
27	Revisiting the Hitherto Elusive Cyclohexanehexone Molecule: Bulk Synthesis, Mass Spectrometry, and Theoretical Studies. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9848-9852.	4.6	12
28	Nitrogen-rich covalent organic frameworks with multiple carbonyls for high-performance sodium batteries. <i>Nature Communications</i> , 2020, 11, 178.	12.8	279
29	Energy Storage Chemistry in Aqueous Zinc Metal Batteries. <i>ACS Energy Letters</i> , 2020, 5, 3569-3590.	17.4	163
30	Exploring the Interfacial Chemistry between Zinc Anodes and Aqueous Electrolytes via an In Situ Visualized Characterization System. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55476-55482.	8.0	58
31	Recent advances in Ni-rich layered oxide particle materials for lithium-ion batteries. <i>Particuology</i> , 2020, 53, 1-11.	3.6	60
32	Room-Temperature Flexible Quasi-Solid-State Rechargeable Na ₂ O Batteries. <i>ACS Central Science</i> , 2020, 6, 1955-1963.	11.3	25
33	Modulating electrolyte structure for ultralow temperature aqueous zinc batteries. <i>Nature Communications</i> , 2020, 11, 4463.	12.8	431
34	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21885-21889.	13.8	79
35	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Single-Atom Catalysts. <i>Angewandte Chemie</i> , 2020, 132, 22069-22073.	2.0	9
36	Prospects of organic electrode materials for practical lithium batteries. <i>Nature Reviews Chemistry</i> , 2020, 4, 127-142.	30.2	772

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37	Understanding High-Rate K ⁺ /Solvent Co-Intercalation in Natural Graphite for Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 13017-13024.	2.0	28
38	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. <i>Angewandte Chemie</i> , 2020, 132, 11630-11636.	2.0	9
39	Understanding High-Rate K ⁺ /Solvent Co-Intercalation in Natural Graphite for Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12917-12924.	13.8	112
40	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11533-11539.	13.8	40
41	Rechargeable Aqueous Polymer-Air Batteries Based on Polyanthraquinone Anode. <i>CheM</i> , 2019, 5, 2159-2170.	11.7	61
42	Tuning Oxygen Redox Chemistry in Li-Rich Mn-Based Layered Oxide Cathodes by Modulating Cation Arrangement. <i>Advanced Materials</i> , 2019, 31, e1901808.	21.0	86
43	Recent Progress on Catalysts for the Positive Electrode of Aprotic Lithium-Oxygen Batteries. <i>Inorganics</i> , 2019, 7, 69.	2.7	8
44	Synthesis and electrochemical performance of vanadium sulfide as novel anode for lithium ion battery application. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9695-9704.	2.2	14
45	Recent progress on lithium-ion batteries with high electrochemical performance. <i>Science China Chemistry</i> , 2019, 62, 533-548.	8.2	136
46	Cyclohexanone with Ultrahigh Capacity as Cathode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7020-7024.	13.8	252
47	A compatible anode/succinonitrile-based electrolyte interface in all-solid-state Na ⁺ /CO ₂ batteries. <i>Chemical Science</i> , 2019, 10, 4306-4312.	7.4	72
48	In situ Synthesis of a Bismuth Layer on a Sodium Metal Anode for Fast Interfacial Transport in Sodium-Oxygen Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 663-667.	4.7	32
49	Cyclohexanone with Ultrahigh Capacity as Cathode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 7094-7098.	2.0	51
50	High-capacity aqueous zinc batteries using sustainable quinone electrodes. <i>Science Advances</i> , 2018, 4, eaao1761.	10.3	716
51	The structure-property relationship of quinone electrodes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13478-13484.	2.8	59
52	Nafion/Titanium Dioxide-Coated Lithium Anode for Stable Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1379-1385.	3.3	34
53	Graphene-Based Nanomaterials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702469.	19.5	170
54	High-Performance Aqueous Sodium-Ion Batteries with Hydrogel Electrolyte and Alloxazine/CMK-3 Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7761-7768.	6.7	41

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55	High-performance rechargeable aqueous Zn-ion batteries with a poly(benzoquinonyl sulfide) cathode. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1391-1396.	6.0	173
56	Electrolyte and Interface Engineering for Solid-State Sodium Batteries. <i>Joule</i> , 2018, 2, 1747-1770.	24.0	346
57	Flexible and Tailorable Na ⁺ /CO ₂ Batteries Based on an All-Solid-State Polymer Electrolyte. <i>ChemElectroChem</i> , 2018, 5, 3628-3632.	3.4	42
58	Design Strategies toward Enhancing the Performance of Organic Electrode Materials in Metal-Ion Batteries. <i>CheM</i> , 2018, 4, 2786-2813.	11.7	517
59	A Microporous Covalent-Organic Framework with Abundant Accessible Carbonyl Groups for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9443-9446.	13.8	431
60	A Microporous Covalent-Organic Framework with Abundant Accessible Carbonyl Groups for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018, 130, 9587-9590.	2.0	38
61	Core-shell structured 1,4-benzoquinone@TiO ₂ cathode for lithium batteries. <i>Journal of Energy Chemistry</i> , 2018, 27, 1644-1650.	12.9	22
62	Molecular Electrostatic Potential: A New Tool to Predict the Lithiation Process of Organic Battery Materials. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3573-3579.	4.6	131
63	Rechargeable Na-CO ₂ Batteries Starting from Cathode of Na ₂ CO ₃ and Carbon Nanotubes. <i>Research</i> , 2018, 2018, 6914626.	5.7	32
64	Flexible and Free-Standing Organic/Carbon Nanotubes Hybrid Films as Cathode for Rechargeable Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14498-14506.	3.1	52
65	Advanced Organic Electrode Materials for Rechargeable Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601792.	19.5	438
66	Quinones as Electrode Materials for Rechargeable Lithium Batteries. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2016, 32, 1593-1603.	4.9	8
67	Rechargeable Lithium Batteries with Electrodes of Small Organic Carbonyl Salts and Advanced Electrolytes. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5795-5804.	3.7	91
68	Oxocarbon Salts for Fast Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12528-12532.	13.8	238
69	Oxocarbon Salts for Fast Rechargeable Batteries. <i>Angewandte Chemie</i> , 2016, 128, 12716-12720.	2.0	53