Yong Lu

List of Publications by Year
in descending order

79 papers	9,432 citations	50692 43 h-index	52041 80 g-index
81 all docs	81 docs citations	81 times ranked	7676 citing authors

#	Article	IF	Citations
1	Regulating Electrostatic Interaction between Hydrofluoroethers and Carbonyl Cathodes toward Highly Stable Lithiumâ€“Organic Batteries. Journal of the American Chemical Society, 2024, 146, 1100-1108.	15.7	15
2	Reliable Organic Carbonyl Electrode Materials Enabled by Electrolyte and Interfacial Chemistry Regulation. Accounts of Chemical Research, 2024, 57, 375-385.	17.7	4
3	Sustainable Aqueous Batteries Based on Bipolar Dissociation of Aluminum Hydroxyacetate Electrolyte. Journal of the American Chemical Society, 2024, 146, 5597-5604.	15.7	4
4	High-capacity dilithium hydroquinone cathode material for lithium-ion batteries. National Science Review, 2024, 11, .	10.0	2
5	Nonaggregated Anions Enable the Undercooled Aqueous Electrolyte for Low-Temperature Applications. Journal of the American Chemical Society, 2024, 146, 12743-12749.	15.7	4
6	Ultrafine RuO2 nanoparticles/MWCNTs cathodes for rechargeable Na-CO2 batteries with accelerated kinetics of Na2CO3 decomposition. Chinese Chemical Letters, 2023, 34, 107405.	7.5	6
7	Emerging Lithiated Organic Cathode Materials for Lithiumâ€Ion Full Batteries. Angewandte Chemie, 2023, 135, .	1.5	4
8	Emerging Lithiated Organic Cathode Materials for Lithiumâ€Ion Full Batteries. Angewandte Chemie - International Edition, 2023, 62, .	15.0	29
9	Organic Electroactive Materials for Aqueous Redox Flow Batteries. Advanced Materials, 2023, 35, .	24.7	36
10	Computational Insights into the Crystal Facet Selectivity of Cu Current Collector for the Growth of Lithium Metal. Journal of Physical Chemistry C, 2023, 127, 16297-16303.	3.2	1
11	Insights into Redox Processes and Correlated Performance of Organic Carbonyl Electrode Materials in Rechargeable Batteries. Advanced Materials, 2022, 34, .	24.7	93
12	An MXeneâ€Based Metal Anode with Stepped Sodiophilic Gradient Structure Enables a Large Current Density for Rechargeable Naâ€“O₂ Batteries. Advanced Materials, 2022, 34, .	24.7	50
13	High-performance all-solid-state electrolyte for sodium batteries enabled by the interaction between the anion in salt and Na₃SbS₄. Chemical Science, 2022, 13, 3416-3423.	7.5	31
14	Gradient doping Mg and Al to stabilize Ni-rich cathode materials for rechargeable lithium-ion batteries. Journal of Power Sources, 2022, 535, 231445.	8.0	56
15	Quinone Electrodes for Alkaliâ€“Acid Hybrid Batteries. Journal of the American Chemical Society, 2022, 144, 8066-8072.	15.7	40
16	Halogenated Zn²⁺ Solvation Structure for Reversible Zn Metal Batteries. Journal of the American Chemical Society, 2022, 144, 18435-18443.	15.7	203
17	Recent Progress on Layered Cathode Materials for Nonaqueous Rechargeable Magnesium Batteries. Small, 2021, 17, .	11.6	59
18	CuP2 as high-capacity and long-cycle-life anode for potassium-ion batteries. Journal of Energy Chemistry, 2021, 63, 246-252.	14.2	26

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19	Aromaticity/Antiaromaticity Effect on Activity of Transition Metal Macrocyclic Complexes towards Electrocatalytic Oxygen Reduction. ChemSusChem, 2021, 14, 1835-1839.	6.3	12
20	Rechargeable Kâ€CO₂ Batteries with a KSn Anode and a Carboxylâ€Containing Carbon Nanotube Cathode Catalyst. Angewandte Chemie - International Edition, 2021, 60, 9540-9545.	15.0	34
21	Rechargeable Kâ€CO 2 Batteries with a KSn Anode and a Carboxylâ€Containing Carbon Nanotube Cathode Catalyst. Angewandte Chemie, 2021, 133, 9626-9631.	1.5	5
22	Highâ€Energyâ€Density Quinoneâ€Based Electrodes with [Al(OTF)]²⁺ Storage Mechanism for Rechargeable Aqueous Aluminum Batteries. Advanced Functional Materials, 2021, 31, .	17.1	89
23	A Lowâ€Strain Potassiumâ€Rich Prussian Blue Analogue Cathode for High Power Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 13050-13056.	15.0	120
24	A Lowâ€Strain Potassiumâ€Rich Prussian Blue Analogue Cathode for High Power Potassiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 13160-13166.	1.5	22
25	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via dâ€“Ï€ Conjugation. Angewandte Chemie, 2021, 133, 17074-17078.	1.5	9
26	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via dâ€“Ï€ Conjugation. Angewandte Chemie - International Edition, 2021, 60, 16937-16941.	15.0	108
27	Synthesis and electrochemical properties of zinc germanate nanowires as novel anode material for lithium-ion battery. Ionics, 2021, 27, 4177-4184.	2.4	7
28	Chaotropic Anion and Fast-Kinetics Cathode Enabling Low-Temperature Aqueous Zn Batteries. ACS Energy Letters, 2021, 6, 2704-2712.	17.5	231
29	Structureâ€“Performance Relationships of Covalent Organic Framework Electrode Materials in Metal-Ion Batteries. Journal of Physical Chemistry Letters, 2021, 12, 8061-8071.	4.6	34
30	Insights into the Ionic Conduction Mechanism of Quasiâ€Solid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie, 2021, 133, 22854-22859.	1.5	12
31	Designing Anionâ€Type Waterâ€Free Zn²⁺ Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie - International Edition, 2021, 60, 23357-23364.	15.0	260
32	An Ionic Liquid Electrolyte with Enhanced Li⁺ Transport Ability Enables Stable Li Deposition for Highâ€Performance Liâ€O₂ Batteries. Angewandte Chemie - International Edition, 2021, 60, 25973-25980.	15.0	57
33	Designing Anionâ€Type Waterâ€Free Zn²⁺ Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie, 2021, 133, 23545-23552.	1.5	70
34	An Ionic Liquid Electrolyte with Enhanced Li⁺ Transport Ability Enables Stable Li Deposition for Highâ€Performance Liâ€O₂ Batteries. Angewandte Chemie, 2021, 133, 26177-26184.	1.5	12
35	Insights into the Ionic Conduction Mechanism of Quasiâ€Solid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie - International Edition, 2021, 60, 22672-22677.	15.0	104
36	In Situ Polymerized Conjugated Poly(pyreneâ€4,5,9,10â€tetraone)/Carbon Nanotubes Composites for Highâ€Performance Cathode of Sodium Batteries. Advanced Energy Materials, 2021, 11, .	22.7	90

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37	Revisiting the Hitherto Elusive Cyclohexanehexone Molecule: Bulk Synthesis, Mass Spectrometry, and Theoretical Studies. Journal of Physical Chemistry Letters, 2021, 12, 9848-9852.	4.6	16
38	Nitrogen-rich covalent organic frameworks with multiple carbonyls for high-performance sodium batteries. Nature Communications, 2020, 11, .	14.1	360
39	Energy Storage Chemistry in Aqueous Zinc Metal Batteries. ACS Energy Letters, 2020, 5, 3569-3590.	17.5	190
40	Exploring the Interfacial Chemistry between Zinc Anodes and Aqueous Electrolytes via an In Situ Visualized Characterization System. ACS Applied Materials & Interfaces, 2020, 12, 55476-55482.	8.1	76
41	Recent advances in Ni-rich layered oxide particle materials for lithium-ion batteries. Particuology, 2020, 53, 1-11.	5.3	73
42	Room-Temperature Flexible Quasi-Solid-State Rechargeable Naâ€“O₂ Batteries. ACS Central Science, 2020, 6, 1955-1963.	9.6	34
43	Modulating electrolyte structure for ultralow temperature aqueous zinc batteries. Nature Communications, 2020, 11, .	14.1	595
44	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21885-21889.	15.0	94
45	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Singleâ€Atom Catalysts. Angewandte Chemie, 2020, 132, 22069-22073.	1.5	9
46	Prospects of organic electrode materials for practical lithium batteries. Nature Reviews Chemistry, 2020, 4, 127-142.	23.4	961
47	Understanding Highâ€Rate K⁺â€Solvent Coâ€Intercalation in Natural Graphite for Potassiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 13017-13024.	1.5	28
48	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. Angewandte Chemie, 2020, 132, 11630-11636.	1.5	9
49	Understanding Highâ€Rate K⁺â€Solvent Coâ€Intercalation in Natural Graphite for Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12917-12924.	15.0	149
50	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 11533-11539.	15.0	50
51	Rechargeable Aqueous Polymer-Air Batteries Based on Polyanthraquinone Anode. CheM, 2019, 5, 2159-2170.	16.6	68
52	Tuning Oxygen Redox Chemistry in Liâ€Rich Mnâ€Based Layered Oxide Cathodes by Modulating Cation Arrangement. Advanced Materials, 2019, 31, .	24.7	105
53	Recent Progress on Catalysts for the Positive Electrode of Aprotic Lithium-Oxygen Batteries â€. Inorganics, 2019, 7, 69.	2.8	7
54	Synthesis and electrochemical performance of vanadium sulfide as novel anode for lithium ion battery application. Journal of Materials Science: Materials in Electronics, 2019, 30, 9695-9704.	2.2	15

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55	Recent progress on lithium-ion batteries with high electrochemical performance. Science China Chemistry, 2019, 62, 533-548.	7.7	142
56	Cyclohexanehexone with Ultrahigh Capacity as Cathode Materials for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 7020-7024.	15.0	280
57	A compatible anode/succinonitrile-based electrolyte interface in all-solid-state Naâ€“CO₂ batteries. Chemical Science, 2019, 10, 4306-4312.	7.5	85
58	In situ Synthesis of a Bismuth Layer on a Sodium Metal Anode for Fast Interfacial Transport in Sodiumâ€Oxygen Batteries. Batteries and Supercaps, 2019, 2, 663-667.	4.4	39
59	Cyclohexanehexone with Ultrahigh Capacity as Cathode Materials for Lithiumâ€Ion Batteries. Angewandte Chemie, 2019, 131, 7094-7098.	1.5	54
60	High-capacity aqueous zinc batteries using sustainable quinone electrodes. Science Advances, 2018, 4, .	11.3	811
61	The structureâ€“electrochemical property relationship of quinone electrodes for lithium-ion batteries. Physical Chemistry Chemical Physics, 2018, 20, 13478-13484.	2.8	66
62	Nafion/Titanium Dioxideâ€Coated Lithium Anode for Stable Lithiumâ€“Sulfur Batteries. Chemistry - an Asian Journal, 2018, 13, 1379-1385.	3.1	33
63	Grapheneâ€Based Nanomaterials for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, .	22.7	186
64	High-Performance Aqueous Sodium-Ion Batteries with Hydrogel Electrolyte and Alloxazine/CMK-3 Anode. ACS Sustainable Chemistry and Engineering, 2018, 6, 7761-7768.	7.0	40
65	High-performance rechargeable aqueous Zn-ion batteries with a poly(benzoquinonyl sulfide) cathode. Inorganic Chemistry Frontiers, 2018, 5, 1391-1396.	6.3	189
66	Electrolyte and Interface Engineering for Solid-State Sodium Batteries. Joule, 2018, 2, 1747-1770.	29.1	409
67	Flexible and Tailorable Naâ^'CO₂ Batteries Based on an Allâ€Solidâ€State Polymer Electrolyte. ChemElectroChem, 2018, 5, 3628-3632.	3.0	45
68	Design Strategies toward Enhancing the Performance of Organic Electrode Materials in Metal-Ion Batteries. CheM, 2018, 4, 2786-2813.	16.6	617
69	A Microporous Covalentâ€“Organic Framework with Abundant Accessible Carbonyl Groups for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 9443-9446.	15.0	480
70	A Microporous Covalentâ€“Organic Framework with Abundant Accessible Carbonyl Groups for Lithiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 9587-9590.	1.5	37
71	Core-shell structured 1,4-benzoquinone@TiO2 cathode for lithium batteries. Journal of Energy Chemistry, 2018, 27, 1644-1650.	14.2	22
72	Molecular Electrostatic Potential: A New Tool to Predict the Lithiation Process of Organic Battery Materials. Journal of Physical Chemistry Letters, 2018, 9, 3573-3579.	4.6	159

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73	Rechargeable Na-CO₂ Batteries Starting from Cathode of Na₂CO₃	8.2	37
74	Flexible and Free-Standing Organic/Carbon Nanotubes Hybrid Films as Cathode for Rechargeable Lithium-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 14498-14506.	3.2	52
75	Advanced Organic Electrode Materials for Rechargeable Sodiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, .	22.7	464
76	Quinones as Electrode Materials for Rechargeable Lithium Batteries. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016, 32, 1593-1603.	5.2	9
77	Rechargeable Lithium Batteries with Electrodes of Small Organic Carbonyl Salts and Advanced Electrolytes. Industrial & Engineering Chemistry Research, 2016, 55, 5795-5804.	4.0	93
78	Oxocarbon Salts for Fast Rechargeable Batteries. Angewandte Chemie - International Edition, 2016, 55, 12528-12532.	15.0	255
79	Oxocarbon Salts for Fast Rechargeable Batteries. Angewandte Chemie, 2016, 128, 12716-12720.	1.5	49