Yong Lu

List of Publications by Year in descending order

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69 papers	7,579 citations	81900 39 h-index	88630 70 g-index
70 all docs	70 docs citations	70 times ranked	5609 citing authors

#	Article	IF	Citations
1	Prospects of organic electrode materials for practical lithium batteries. Nature Reviews Chemistry, 2020, 4, 127-142.	30.2	772
2	High-capacity aqueous zinc batteries using sustainable quinone electrodes. Science Advances, 2018, 4, eaao1761.	10.3	716
3	Design Strategies toward Enhancing the Performance of Organic Electrode Materials in Metal-Ion Batteries. CheM, 2018, 4, 2786-2813.	11.7	517
4	Advanced Organic Electrode Materials for Rechargeable Sodiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1601792.	19.5	438
5	A Microporous Covalentâ€“Organic Framework with Abundant Accessible Carbonyl Groups for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 9443-9446.	13.8	431
6	Modulating electrolyte structure for ultralow temperature aqueous zinc batteries. Nature Communications, 2020, 11, 4463.	12.8	431
7	Electrolyte and Interface Engineering for Solid-State Sodium Batteries. Joule, 2018, 2, 1747-1770.	24.0	346
8	Nitrogen-rich covalent organic frameworks with multiple carbonyls for high-performance sodium batteries. Nature Communications, 2020, 11, 178.	12.8	279
9	Cyclohexanehexone with Ultrahigh Capacity as Cathode Materials for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 7020-7024.	13.8	252
10	Oxocarbon Salts for Fast Rechargeable Batteries. Angewandte Chemie - International Edition, 2016, 55, 12528-12532.	13.8	238
11	Designing Anionâ€Type Waterâ€Free Zn²⁺ Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie - International Edition, 2021, 60, 23357-23364.	13.8	179
12	High-performance rechargeable aqueous Zn-ion batteries with a poly(benzoquinonyl sulfide) cathode. Inorganic Chemistry Frontiers, 2018, 5, 1391-1396.	6.0	173
13	Grapheneâ€Based Nanomaterials for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1702469.	19.5	170
14	Energy Storage Chemistry in Aqueous Zinc Metal Batteries. ACS Energy Letters, 2020, 5, 3569-3590.	17.4	163
15	Chaotropic Anion and Fast-Kinetics Cathode Enabling Low-Temperature Aqueous Zn Batteries. ACS Energy Letters, 2021, 6, 2704-2712.	17.4	153
16	Recent progress on lithium-ion batteries with high electrochemical performance. Science China Chemistry, 2019, 62, 533-548.	8.2	136
17	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	131
18	Understanding Highâ€Rate K⁺â€Solvent Coâ€Intercalation in Natural Graphite for Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12917-12924.	13.8	112

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19	Rechargeable Lithium Batteries with Electrodes of Small Organic Carbonyl Salts and Advanced Electrolytes. Industrial & Engineering Chemistry Research, 2016, 55, 5795-5804.	3.7	91
20	A Lowâ€Strain Potassiumâ€Rich Prussian Blue Analogue Cathode for High Power Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 13050-13056.	13.8	90
21	Tuning Oxygen Redox Chemistry in Liâ€Rich Mnâ€Based Layered Oxide Cathodes by Modulating Cation Arrangement. Advanced Materials, 2019, 31, e1901808.	21.0	86
22	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21885-21889.	13.8	79
23	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via dâ€“Ï€ Conjugation. Angewandte Chemie - International Edition, 2021, 60, 16937-16941.	13.8	74
24	A compatible anode/succinonitrile-based electrolyte interface in all-solid-state Naâ€“CO₂ batteries. Chemical Science, 2019, 10, 4306-4312.	7.4	72
25	Insights into the Ionic Conduction Mechanism of Quasiâ€Solid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie - International Edition, 2021, 60, 22672-22677.	13.8	72
26	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, 2002917.	19.5	69
27	Insights into Redox Processes and Correlated Performance of Organic Carbonyl Electrode Materials in Rechargeable Batteries. Advanced Materials, 2022, 34, e2104150.	21.0	69
28	Rechargeable Aqueous Polymer-Air Batteries Based on Polyanthraquinone Anode. CheM, 2019, 5, 2159-2170.	11.7	61
29	Highâ€Energyâ€Density Quinoneâ€Based Electrodes with [Al(OTF)]²⁺ Storage Mechanism for Rechargeable Aqueous Aluminum Batteries. Advanced Functional Materials, 2021, 31, 2102063.	14.9	61
30	Recent advances in Ni-rich layered oxide particle materials for lithium-ion batteries. Particuology, 2020, 53, 1-11.	3.6	60
31	The structureâ€“electrochemical property relationship of quinone electrodes for lithium-ion batteries. Physical Chemistry Chemical Physics, 2018, 20, 13478-13484.	2.8	59
32	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.	8.0	58
33	Designing Anionâ€Type Waterâ€Free Zn²⁺ Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie, 2021, 133, 23545-23552.	2.0	57
34	Recent Progress on Layered Cathode Materials for Nonaqueous Rechargeable Magnesium Batteries. Small, 2021, 17, e1902767.	10.0	55
35	Oxocarbon Salts for Fast Rechargeable Batteries. Angewandte Chemie, 2016, 128, 12716-12720.	2.0	53
36	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.	3.1	52

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37	Cyclohexanehexone with Ultrahigh Capacity as Cathode Materials for Lithiumâ€Ion Batteries. Angewandte Chemie, 2019, 131, 7094-7098.	2.0	51
38	Flexible and Tailorable Naâ^'CO₂ Batteries Based on an Allâ€Solidâ€State Polymer Electrolyte. ChemElectroChem, 2018, 5, 3628-3632.	3.4	42
39	High-Performance Aqueous Sodium-Ion Batteries with Hydrogel Electrolyte and Alloxazine/CMK-3 Anode. ACS Sustainable Chemistry and Engineering, 2018, 6, 7761-7768.	6.7	41
40	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 11533-11539.	13.8	40
41	A Microporous Covalentâ€"Organic Framework with Abundant Accessible Carbonyl Groups for Lithiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 9587-9590.	2.0	38
42	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.	13.8	35
43	An MXeneâ€Based Metal Anode with Stepped Sodiophilic Gradient Structure Enables a Large Current Density for Rechargeable Naâ€"O₂ Batteries. Advanced Materials, 2022, 34, e2106565.	21.0	35
44	Nafion/Titanium Dioxideâ€Coated Lithium Anode for Stable Lithiumâ€"Sulfur Batteries. Chemistry - an Asian Journal, 2018, 13, 1379-1385.	3.3	34
45	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
46	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.	4.7	32
47	Rechargeable Na-CO ₂ Batteries Starting from Cathode of Na ₂ CO ₃ and Carbon Nanotubes. Research, 2018, 2018, 6914626.	5.7	32
48	Understanding Highâ€Rate K⁺â€Solvent Coâ€Intercalation in Natural Graphite for Potassiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 13017-13024.	2.0	28
49	Structureâ€"Performance Relationships of Covalent Organic Framework Electrode Materials in Metal-Ion Batteries. Journal of Physical Chemistry Letters, 2021, 12, 8061-8071.	4.6	26
50	Room-Temperature Flexible Quasi-Solid-State Rechargeable Naâ€"O₂ Batteries. ACS Central Science, 2020, 6, 1955-1963.	11.3	25
51	Rechargeable Kâ€CO₂ Batteries with a KSn Anode and a Carboxylâ€Containing Carbon Nanotube Cathode Catalyst. Angewandte Chemie - International Edition, 2021, 60, 9540-9545.	13.8	23
52	Quinone Electrodes for Alkaliâ€"Acid Hybrid Batteries. Journal of the American Chemical Society, 2022, 144, 8066-8072.	13.7	23
53	Core-shell structured 1,4-benzoquinone@TiO2 cathode for lithium batteries. Journal of Energy Chemistry, 2018, 27, 1644-1650.	12.9	22
54	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.	7.4	20

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55	CuP2 as high-capacity and long-cycle-life anode for potassium-ion batteries. Journal of Energy Chemistry, 2021, 63, 246-252.	12.9	18
56	A Lowâ€Strain Potassiumâ€Rich Prussian Blue Analogue Cathode for High Power Potassiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 13160-13166.	2.0	16
57	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	14
58	Revisiting the Hitherto Elusive Cyclohexanehexone Molecule: Bulk Synthesis, Mass Spectrometry, and Theoretical Studies. Journal of Physical Chemistry Letters, 2021, 12, 9848-9852.	4.6	12
59	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.	2.0	11
60	Aromaticity/Antiaromaticity Effect on Activity of Transition Metal Macrocyclic Complexes towards Electrocatalytic Oxygen Reduction. ChemSusChem, 2021, 14, 1835-1839.	6.8	10
61	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Singleâ€Atom Catalysts. Angewandte Chemie, 2020, 132, 22069-22073.	2.0	9
62	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. Angewandte Chemie, 2020, 132, 11630-11636.	2.0	9
63	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via dâ€“Ï€ Conjugation. Angewandte Chemie, 2021, 133, 17074-17078.	2.0	9
64	Quinones as Electrode Materials for Rechargeable Lithium Batteries. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016, 32, 1593-1603.	4.9	8
65	Recent Progress on Catalysts for the Positive Electrode of Aprotic Lithium-Oxygen Batteries â€. Inorganics, 2019, 7, 69.	2.7	8
66	Rechargeable Kâ€CO 2 Batteries with a KSn Anode and a Carboxylâ€Containing Carbon Nanotube Cathode Catalyst. Angewandte Chemie, 2021, 133, 9626-9631.	2.0	5
67	Synthesis and electrochemical properties of zinc germanate nanowires as novel anode material for lithium-ion battery. Ionics, 2021, 27, 4177-4184.	2.4	5
68	Insights into the Ionic Conduction Mechanism of Quasiâ€Solid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie, 2021, 133, 22854-22859.	2.0	5
69	Ultrafine RuO2 nanoparticles/MWCNTs cathodes for rechargeable Na-CO2 batteries with accelerated kinetics of Na2CO3 decomposition. Chinese Chemical Letters, 2023, 34, 107405.	9.0	4