

# Yong Lu

## List of Publications by Year in descending order

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69  
papers

7,579  
citations

81743

39  
h-index

88477

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. <i>Nature Reviews Chemistry</i> , 2020, 4, 127-142.	13.8	772
2	High-capacity aqueous zinc batteries using sustainable quinone electrodes. <i>Science Advances</i> , 2018, 4, eaao1761.	4.7	716
3	Design Strategies toward Enhancing the Performance of Organic Electrode Materials in Metal-Ion Batteries. <i>CheM</i> , 2018, 4, 2786-2813.	5.8	517
4	Advanced Organic Electrode Materials for Rechargeable Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601792.	10.2	438
5	A Microporous Covalent Organic Framework with Abundant Accessible Carbonyl Groups for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9443-9446.	7.2	431
6	Modulating electrolyte structure for ultralow temperature aqueous zinc batteries. <i>Nature Communications</i> , 2020, 11, 4463.	5.8	431
7	Electrolyte and Interface Engineering for Solid-State Sodium Batteries. <i>Joule</i> , 2018, 2, 1747-1770.	11.7	346
8	Nitrogen-rich covalent organic frameworks with multiple carbonyls for high-performance sodium batteries. <i>Nature Communications</i> , 2020, 11, 178.	5.8	279
9	Cyclohexanehexone with Ultrahigh Capacity as Cathode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7020-7024.	7.2	252
10	Oxocarbon Salts for Fast Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12528-12532.	7.2	238
11	Designing Anion-Type Water-Free Zn <sup>2+</sup> Solvation Structure for Robust Zn Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23357-23364.	7.2	179
12	High-performance rechargeable aqueous Zn-ion batteries with a poly(benzoquinonyl sulfide) cathode. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1391-1396.	3.0	173
13	Graphene-Based Nanomaterials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702469.	10.2	170
14	Energy Storage Chemistry in Aqueous Zinc Metal Batteries. <i>ACS Energy Letters</i> , 2020, 5, 3569-3590.	8.8	163
15	Chaotropic Anion and Fast-Kinetics Cathode Enabling Low-Temperature Aqueous Zn Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2704-2712.	8.8	153
16	Recent progress on lithium-ion batteries with high electrochemical performance. <i>Science China Chemistry</i> , 2019, 62, 533-548.	4.2	136
17	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.	2.1	131
18	Understanding High-Rate K <sup>+</sup> -Solvent Co-Intercalation in Natural Graphite for Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12917-12924.	7.2	112

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19	Rechargeable Lithium Batteries with Electrodes of Small Organic Carbonyl Salts and Advanced Electrolytes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 5795-5804.	1.8	91
20	A Low-Strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13050-13056.	7.2	90
21	Tuning Oxygen Redox Chemistry in Li-Rich Mn-Based Layered Oxide Cathodes by Modulating Cation Arrangement. <i>Advanced Materials</i> , 2019, 31, e1901808.	11.1	86
22	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21885-21889.	7.2	79
23	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via $\pi$ -Conjugation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16937-16941.	7.2	74
24	A compatible anode/succinonitrile-based electrolyte interface in all-solid-state Na <sub>2</sub> CO <sub>3</sub> batteries. <i>Chemical Science</i> , 2019, 10, 4306-4312.	3.7	72
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.	7.2	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.	10.2	69
27	Insights into Redox Processes and Correlated Performance of Organic Carbonyl Electrode Materials in Rechargeable Batteries. <i>Advanced Materials</i> , 2022, 34, e2104150.	11.1	69
28	Rechargeable Aqueous Polymer-Air Batteries Based on Polyanthraquinone Anode. <i>CheM</i> , 2019, 5, 2159-2170.	5.8	61
29	High-Energy-Density Quinone-Based Electrodes with [Al(OTf)] <sup>2+</sup> Storage Mechanism for Rechargeable Aqueous Aluminum Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102063.	7.8	61
30	Recent advances in Ni-rich layered oxide particle materials for lithium-ion batteries. <i>Particuology</i> , 2020, 53, 1-11.	2.0	60
31	The structure-electrochemical property relationship of quinone electrodes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13478-13484.	1.3	59
32	Exploring the Interfacial Chemistry between Zinc Anodes and Aqueous Electrolytes via an In Situ Visualized Characterization System. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55476-55482.	4.0	58
33	Designing Anion-Type Water-Free Zn <sup>2+</sup> Solvation Structure for Robust Zn Metal Anode. <i>Angewandte Chemie</i> , 2021, 133, 23545-23552.	1.6	57
34	Recent Progress on Layered Cathode Materials for Nonaqueous Rechargeable Magnesium Batteries. <i>Small</i> , 2021, 17, e1902767.	5.2	55
35	Oxocarbon Salts for Fast Rechargeable Batteries. <i>Angewandte Chemie</i> , 2016, 128, 12716-12720.	1.6	53
36	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.	1.5	52

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37	Cyclohexanone with Ultrahigh Capacity as Cathode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 7094-7098.	1.6	51
38	Flexible and Tailorable Na <sup>+</sup> /CO <sub>2</sub> Batteries Based on an All-Solid-State Polymer Electrolyte. <i>ChemElectroChem</i> , 2018, 5, 3628-3632.	1.7	42
39	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.	3.2	41
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.	7.2	40
41	A Microporous Covalent Organic Framework with Abundant Accessible Carbonyl Groups for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018, 130, 9587-9590.	1.6	38
42	An Ionic Liquid Electrolyte with Enhanced Li <sup>+</sup> Transport Ability Enables Stable Li Deposition for High-Performance Li <sup>+</sup> /CO <sub>2</sub> Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25973-25980.	7.2	35
43	An MXene-Based Metal Anode with Stepped Sodiophilic Gradient Structure Enables a Large Current Density for Rechargeable Na <sup>+</sup> /CO <sub>2</sub> Batteries. <i>Advanced Materials</i> , 2022, 34, e2106565.	11.1	35
44	Nafion/Titanium Dioxide-Coated Lithium Anode for Stable Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1379-1385.	1.7	34
45	Gradient doping Mg and Al to stabilize Ni-rich cathode materials for rechargeable lithium-ion batteries. <i>Journal of Power Sources</i> , 2022, 535, 231445.	4.0	33
46	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.	2.4	32
47	Rechargeable Na-CO <sub>2</sub> Batteries Starting from Cathode of Na <sub>2</sub> CO <sub>3</sub> and Carbon Nanotubes. <i>Research</i> , 2018, 2018, 6914626.	2.8	32
48	Understanding High-Rate K <sup>+</sup> -Solvent Co-Intercalation in Natural Graphite for Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 13017-13024.	1.6	28
49	Structure-Performance Relationships of Covalent Organic Framework Electrode Materials in Metal-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8061-8071.	2.1	26
50	Room-Temperature Flexible Quasi-Solid-State Rechargeable Na <sup>+</sup> /CO <sub>2</sub> Batteries. <i>ACS Central Science</i> , 2020, 6, 1955-1963.	5.3	25
51	Rechargeable K <sup>+</sup> /CO <sub>2</sub> Batteries with a KSn Anode and a Carboxyl-Containing Carbon Nanotube Cathode Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9540-9545.	7.2	23
52	Quinone Electrodes for Alkali-Acid Hybrid Batteries. <i>Journal of the American Chemical Society</i> , 2022, 144, 8066-8072.	6.6	23
53	Core-shell structured 1,4-benzoquinone@TiO <sub>2</sub> cathode for lithium batteries. <i>Journal of Energy Chemistry</i> , 2018, 27, 1644-1650.	7.1	22
54	High-performance all-solid-state electrolyte for sodium batteries enabled by the interaction between the anion in salt and Na <sub>3</sub> SbS <sub>4</sub> . <i>Chemical Science</i> , 2022, 13, 3416-3423.	3.7	20

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55	CuP2 as high-capacity and long-cycle-life anode for potassium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 63, 246-252.	7.1	18
56	A Low-strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2021, 133, 13160-13166.	1.6	16
57	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.	1.1	14
58	Revisiting the Hitherto Elusive Cyclohexanehexone Molecule: Bulk Synthesis, Mass Spectrometry, and Theoretical Studies. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9848-9852.	2.1	12
59	An Ionic Liquid Electrolyte with Enhanced $\text{Li}^{+}$ Transport Ability Enables Stable Li Deposition for High-Performance $\text{Li-O}_2$ Batteries. <i>Angewandte Chemie</i> , 2021, 133, 26177-26184.	1.6	11
60	Aromaticity/Antiaromaticity Effect on Activity of Transition Metal Macrocyclic Complexes towards Electrocatalytic Oxygen Reduction. <i>ChemSusChem</i> , 2021, 14, 1835-1839.	3.6	10
61	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Single-Atom Catalysts. <i>Angewandte Chemie</i> , 2020, 132, 22069-22073.	1.6	9
62	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. <i>Angewandte Chemie</i> , 2020, 132, 11630-11636.	1.6	9
63	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via $\pi$ - $\pi$ Conjugation. <i>Angewandte Chemie</i> , 2021, 133, 17074-17078.	1.6	9
64	Quinones as Electrode Materials for Rechargeable Lithium Batteries. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2016, 32, 1593-1603.	2.2	8
65	Recent Progress on Catalysts for the Positive Electrode of Aprotic Lithium-Oxygen Batteries. <i>Inorganics</i> , 2019, 7, 69.	1.2	8
66	Rechargeable $\text{K-O}_2$ Batteries with a $\text{KSn}$ Anode and a Carboxyl-Containing Carbon Nanotube Cathode Catalyst. <i>Angewandte Chemie</i> , 2021, 133, 9626-9631.	1.6	5
67	Synthesis and electrochemical properties of zinc germanate nanowires as novel anode material for lithium-ion battery. <i>Ionics</i> , 2021, 27, 4177-4184.	1.2	5
68	Insights into the Ionic Conduction Mechanism of Quasi-Solid Polymer Electrolytes through Multispectral Characterization. <i>Angewandte Chemie</i> , 2021, 133, 22854-22859.	1.6	5
69	Ultrafine $\text{RuO}_2$ nanoparticles/MWCNTs cathodes for rechargeable $\text{Na-CO}_2$ batteries with accelerated kinetics of $\text{Na}_2\text{CO}_3$ decomposition. <i>Chinese Chemical Letters</i> , 2023, 34, 107405.	4.8	4