

Yong Lu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

3,967

citations

30

h-index

62

g-index

70

ext. papers

5,694

ext. citations

11.2

avg, IF

6.53

L-index

#	Paper	IF	Citations
66	MXene-Based Metal Anode with Stepped Sodiophilic Gradient Structure Enables a Large Current Density for Rechargeable Na-O Batteries.. <i>Advanced Materials</i> , 2022 , e2106565	24	5
65	High-performance all-solid-state electrolyte for sodium batteries enabled by the interaction between the anion in salt and NaSbS.. <i>Chemical Science</i> , 2022 , 13, 3416-3423	9.4	2
64	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	8.9	2
63	Insights into Redox Processes and Correlated Performance of Organic Carbonyl Electrode Materials in Rechargeable Batteries. <i>Advanced Materials</i> , 2021 , e2104150	24	10
62	Revisiting the Hitherto Elusive Cyclohexanehexone Molecule: Bulk Synthesis, Mass Spectrometry, and Theoretical Studies. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9848-9852	6.4	4
61	Aromaticity/Antiaromaticity Effect on Activity of Transition Metal Macrocyclic Complexes towards Electrocatalytic Oxygen Reduction. <i>ChemSusChem</i> , 2021 , 14, 1835-1839	8.3	4
60	Rechargeable K-CO Batteries with a KSn Anode and a Carboxyl-Containing Carbon Nanotube Cathode Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9540-9545	16.4	5
59	Rechargeable K-CO ₂ Batteries with a KSn Anode and a Carboxyl-Containing Carbon Nanotube Cathode Catalyst. <i>Angewandte Chemie</i> , 2021 , 133, 9626-9631	3.6	1
58	High-Energy-Density Quinone-Based Electrodes with [Al(OTf)] ₂ ⁺ Storage Mechanism for Rechargeable Aqueous Aluminum Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2102063	15.6	16
57	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	16.4	35
56	A Low-Strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 13160-13166	3.6	3
55	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via d π Conjugation. <i>Angewandte Chemie</i> , 2021 , 133, 17074-17078	3.6	2
54	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via d π Conjugation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16937-16941	16.4	12
53	Recent Progress on Layered Cathode Materials for Nonaqueous Rechargeable Magnesium Batteries. <i>Small</i> , 2021 , 17, e1902767	11	32
52	CuP ₂ as high-capacity and long-cycle-life anode for potassium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021 , 63, 246-246	12	3
51	Synthesis and electrochemical properties of zinc germanate nanowires as novel anode material for lithium-ion battery. <i>Ionics</i> , 2021 , 27, 4177-4184	2.7	1
50	Chaotropic Anion and Fast-Kinetics Cathode Enabling Low-Temperature Aqueous Zn Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 2704-2712	20.1	44

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	6.4	5
48	Insights into the Ionic Conduction Mechanism of Quasi-Solid Polymer Electrolytes through Multispectral Characterization. <i>Angewandte Chemie</i> , 2021 , 133, 22854	3.6	1
47	Designing Anion-Type Water-Free Zn Solvation Structure for Robust Zn Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23357-23364	16.4	33
46	An Ionic Liquid Electrolyte with Enhanced Li Transport Ability Enables Stable Li Deposition for High-Performance Li-O Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25973-25980	16.4	9
45	Designing Anion-Type Water-Free Zn ²⁺ Solvation Structure for Robust Zn Metal Anode. <i>Angewandte Chemie</i> , 2021 , 133, 23545	3.6	13
44	Insights into the Ionic Conduction Mechanism of Quasi-Solid Polymer Electrolytes through Multispectral Characterization. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22672-22677	16.4	16
43	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	21.8	30
42	Prospects of organic electrode materials for practical lithium batteries. <i>Nature Reviews Chemistry</i> , 2020 , 4, 127-142	34.6	34 ^o
41	Nitrogen-rich covalent organic frameworks with multiple carbonyls for high-performance sodium batteries. <i>Nature Communications</i> , 2020 , 11, 178	17.4	124
40	Energy Storage Chemistry in Aqueous Zinc Metal Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 3569-3590	20.1	62
39	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	9.5	19
38	Recent advances in Ni-rich layered oxide particle materials for lithium-ion batteries. <i>Particuology</i> , 2020 , 53, 1-11	2.8	17
37	Room-Temperature Flexible Quasi-Solid-State Rechargeable Na-O Batteries. <i>ACS Central Science</i> , 2020 , 6, 1955-1963	16.8	11
36	Modulating electrolyte structure for ultralow temperature aqueous zinc batteries. <i>Nature Communications</i> , 2020 , 11, 4463	17.4	154
35	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21885-21889	16.4	43
34	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Single-Atom Catalysts. <i>Angewandte Chemie</i> , 2020 , 132, 22069-22073	3.6	5
33	Understanding High-Rate K ⁺ -Solvent Co-Intercalation in Natural Graphite for Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 13017-13024	3.6	22
32	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 11630-11636	3.6	5

31	Understanding High-Rate K -Solvent Co-Intercalation in Natural Graphite for Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12917-12924	16.4	52
30	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	16.4	13
29	Recent Progress on Catalysts for the Positive Electrode of Aprotic Lithium-Oxygen Batteries □ <i>Inorganics</i> , 2019 , 7, 69	2.9	5
28	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	2.1	7
27	Recent progress on lithium-ion batteries with high electrochemical performance. <i>Science China Chemistry</i> , 2019 , 62, 533-548	7.9	73
26	Cyclohexanehexone with Ultrahigh Capacity as Cathode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7020-7024	16.4	153
25	A compatible anode/succinonitrile-based electrolyte interface in all-solid-state Na-CO batteries. <i>Chemical Science</i> , 2019 , 10, 4306-4312	9.4	45
24	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	5.6	17
23	Cyclohexanehexone with Ultrahigh Capacity as Cathode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 7094-7098	3.6	29
22	Rechargeable Aqueous Polymer-Air Batteries Based on Polyanthraquinone Anode. <i>CheM</i> , 2019 , 5, 2159-2170	16.4	36
21	Tuning Oxygen Redox Chemistry in Li-Rich Mn-Based Layered Oxide Cathodes by Modulating Cation Arrangement. <i>Advanced Materials</i> , 2019 , 31, e1901808	24	55
20	High-capacity aqueous zinc batteries using sustainable quinone electrodes. <i>Science Advances</i> , 2018 , 4, eaao1761	14.3	465
19	The structure-electrochemical property relationship of quinone electrodes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13478-13484	3.6	30
18	Nafion/Titanium Dioxide-Coated Lithium Anode for Stable Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1379-1385	4.5	24
17	Graphene-Based Nanomaterials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702469	21.8	130
16	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	8.3	29
15	High-performance rechargeable aqueous Zn-ion batteries with a poly(benzoquinonyl sulfide) cathode. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1391-1396	6.8	108
14	A Microporous Covalent-Organic Framework with Abundant Accessible Carbonyl Groups for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9443-9446	16.4	258

13	A Microporous Covalent Organic Framework with Abundant Accessible Carbonyl Groups for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 9587-9590	3.6	31
12	Core-shell structured 1,4-benzoquinone@TiO ₂ cathode for lithium batteries. <i>Journal of Energy Chemistry</i> , 2018 , 27, 1644-1650	12	15
11	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	6.4	73
10	Rechargeable Na-CO Batteries Starting from Cathode of NaCO and Carbon Nanotubes. <i>Research</i> , 2018 , 2018, 6914626	7.8	21
9	Electrolyte and Interface Engineering for Solid-State Sodium Batteries. <i>Joule</i> , 2018 , 2, 1747-1770	27.8	204
8	Flexible and Tailorable Na/O ₂ Batteries Based on an All-Solid-State Polymer Electrolyte. <i>ChemElectroChem</i> , 2018 , 5, 3628-3632	4.3	30
7	Design Strategies toward Enhancing the Performance of Organic Electrode Materials in Metal-Ion Batteries. <i>CheM</i> , 2018 , 4, 2786-2813	16.2	276
6	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	3.8	40
5	Advanced Organic Electrode Materials for Rechargeable Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601792	21.8	327
4	Quinones as Electrode Materials for Rechargeable Lithium Batteries. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2016 , 32, 1593-1603	3.8	4
3	Oxocarbon Salts for Fast Rechargeable Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 12716-12720	3.6	49
2	Rechargeable Lithium Batteries with Electrodes of Small Organic Carbonyl Salts and Advanced Electrolytes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5795-5804	3.9	74
1	Oxocarbon Salts for Fast Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12528-32	16.4	195