Yongzhu Fu

List of Publications by Year
in descending order

113 papers	13,316 citations	53794 45 h-index	22166 113 g-index
114 all docs	114 docs citations	114 times ranked	10714 citing authors

#	Article	IF	Citations
1	Benzoselenol as an organic electrolyte additive in Li-S battery. Nano Research, 2023, 16, 3814-3822.	10.4	20
2	Carbonaceous-assisted confinement synthesis of refractory high-entropy alloy nanocomposites and their application for seawater electrolysis. Journal of Colloid and Interface Science, 2022, 607, 1580-1588.	9.4	11
3	Advances of entropy-stabilized homologous compounds for electrochemical energy storage. Journal of Energy Chemistry, 2022, 67, 276-289.	12.9	22
4	Biredoxâ€Ionic Anthraquinoneâ€Coupled Ethylviologen Composite Enables Reversible Multielectron Redox Chemistry for Liâ€Organic Batteries. Advanced Science, 2022, 9, e2103632.	11.2	8
5	Dynamic 1Tâ€2H Mixedâ€Phase MoS₂ Enables Highâ€Performance Liâ€Organosulfide Battery. Small, 2022, 18, e2105071.	10.0	23
6	Atomically dispersed Sn modified with trace sulfur species derived from organosulfide complex for electroreduction of CO2. Applied Catalysis B: Environmental, 2022, 304, 120936.	20.2	29
7	Advances of Organosulfur Materials for Rechargeable Metal Batteries. Advanced Science, 2022, 9, e2103989.	11.2	36
8	Insoluble Naphthoquinoneâ€Derived Molecular Cathode for Highâ€Performance Lithium Organic Battery. Advanced Functional Materials, 2022, 32, .	14.9	22
9	A fluorinated macrocyclic organodisulfide cathode for lithium organic batteries. Chemical Communications, 2022, 58, 5602-5605.	4.1	4
10	Garnet solid-state electrolyte with benzenedithiolate catholyte for rechargeable lithium batteries. Chemical Communications, 2022, 58, 3657-3660.	4.1	5
11	Advances of Metal Oxide Composite Cathodes for Aqueous Zincâ€Ion Batteries. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	4
12	Biomassâ€Derived Lenthionine Enhanced by Radical Receptor for Rechargeable Lithium Battery. ChemSusChem, 2022, 15, .	6.8	3
13	Reviewâ€”Advances in Rechargeable Li-S Full Cells. Journal of the Electrochemical Society, 2022, 169, 040525.	2.9	11
14	Nitrogen-rich azoles as trifunctional electrolyte additives for high-performance lithium-sulfur battery. Journal of Energy Chemistry, 2022, 71, 572-579.	12.9	18
15	Carbon disulfide: A redox mediator for organodisulfides in redox flow batteries. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	7
16	Conversion of SeS₂ to Organoselenosulfides Enables High-Performance Rechargeable Lithium Batteries. ACS Sustainable Chemistry and Engineering, 2022, 10, 7526-7535.	6.7	1
17	High-performance garnet solid-state battery enabled by improved interfaces. Journal of Power Sources, 2022, 542, 231798.	7.8	1
18	Regulating dissolution chemistry of nitrates in carbonate electrolyte for high-stable lithium metal batteries. Journal of Energy Chemistry, 2022, 73, 422-428.	12.9	7

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19	Advances in Composite Polymer Electrolytes for Lithium Batteries and Beyond. Advanced Energy Materials, 2021, 11, 2000802.	19.5	162
20	Inorganic Mediator toward Organosulfide Active Material: Anchoring and Electrocatalysis. Advanced Functional Materials, 2021, 31, 2001493.	14.9	21
21	Recent advances of organometallic complexes for rechargeable batteries. Coordination Chemistry Reviews, 2021, 429, 213650.	18.8	41
22	High-entropy alloys: emerging materials for advanced functional applications. Journal of Materials Chemistry A, 2021, 9, 663-701.	10.3	196
23	Fast sodium intercalation in Na3.41Â£0.59FeV(PO4)3: A novel sodium-deficient NASICON cathode for sodium-ion batteries. Energy Storage Materials, 2021, 35, 192-202.	18.0	66
24	A self-healing Liâ€“S redox flow battery with alternative reaction pathways. Journal of Materials Chemistry A, 2021, 9, 12652-12658.	10.3	5
25	Identical cut-off voltage <i>versus</i> equivalent capacity: an objective evaluation of the impact of dopants in layered oxide cathodes. Journal of Materials Chemistry A, 2021, 9, 11219-11227.	10.3	12
26	Anion Intercalation of VS₄ Triggers Atomic Sulfur Transfer to Organic Disulfide in Rechargeable Lithium Battery. Advanced Functional Materials, 2021, 31, 2009875.	14.9	28
27	Benzene-1,2-dithiolato complexes as cathode materials for rechargeable lithium batteries. Electrochimica Acta, 2021, 370, 137757.	5.2	9
28	Organosulfideâ€Based Deep Eutectic Electrolyte for Lithium Batteries. Angewandte Chemie - International Edition, 2021, 60, 9881-9885.	13.8	42
29	Artificial dual solid-electrolyte interfaces based on in situ organothiol transformation in lithium sulfur battery. Nature Communications, 2021, 12, 3031.	12.8	138
30	Electrosynthesis of 1,4-bis(diphenylphosphanyl) tetrasulfide via sulfur radical addition as cathode material for rechargeable lithium battery. Nature Communications, 2021, 12, 3220.	12.8	36
31	Cu(NO3)2 as efficient electrolyte additive for 4ÂV class Li metal batteries with ultrahigh stability. Energy Storage Materials, 2021, 37, 1-7.	18.0	33
32	A universal strategy towards highâ€“energy aqueous multivalentâ€“ion batteries. Nature Communications, 2021, 12, 2857.	12.8	126
33	Advances in multimetallic alloy-based anodes for alkali-ion and alkali-metal batteries. Materials Today, 2021, 50, 259-275.	14.2	35
34	Hyperbranched organosulfur polymer cathode materials for Li-S battery. Chemical Engineering Journal, 2021, 415, 129043.	12.7	29
35	Size Effect of Organosulfur and In Situ Formed Oligomers Enables Highâ€Utilization Naâ€“Organosulfur Batteries. Advanced Materials, 2021, 33, e2100824.	21.0	18
36	Isomeric Organodithiol Additives for Improving Interfacial Chemistry in Rechargeable Liâ€“S Batteries. Journal of the American Chemical Society, 2021, 143, 11063-11071.	13.7	101

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37	Yttrium Vanadium Oxideâ€“Poly(3,4â€ethylenedioxythiophene) Composite Cathode Material for Aqueous Zincâ€Ion Batteries. Small Methods, 2021, 5, e2100544.	8.6	25
38	Tuning Solvation Behavior of Ester-Based Electrolytes toward Highly Stable Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 40582-40589.	8.0	9
39	<i>In Situ</i> Synthesis of Vacancy-Rich Titanium Sulfide Confined in a Hollow Carbon Nanocage as an Efficient Sulfur Host for Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2021, 4, 10104-10113.	5.1	15
40	Exploring sodium storage mechanism of topological insulator Bi2Te3 nanosheets encapsulated in conductive polymer. Energy Storage Materials, 2021, 41, 255-263.	18.0	44
41	Ultrastable Na-TiS2 battery enabled by in situ construction of gel polymer electrolyte. Journal of Power Sources, 2021, 516, 230653.	7.8	4
42	Homogeneous and Fast Li-Ion Transport Enabled by a Novel Metalâ€“Organic-Framework-Based Succinonitrile Electrolyte for Dendrite-Free Li Deposition. ACS Applied Materials & Interfaces, 2021, 13, 52688-52696.	8.0	22
43	Smart Flow Electrosynthesis and Application of Organodisulfides in Redox Flow Batteries. Advanced Science, 2021, 9, 2104036.	11.2	5
44	Nitrate additives for lithium batteries: Mechanisms, applications, and prospects. EScience, 2021, 1, 108-123.	41.6	98
45	Intermolecular cyclic polysulfides as cathode materials for rechargeable lithium batteries. Journal of Materials Chemistry A, 2020, 8, 87-90.	10.3	27
46	Anodized Aluminum Oxide Separators with Aligned Channels for High-Performance Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2020, 12, 5831-5837.	8.0	29
47	Long Cycle Life Organic Polysulfide Catholyte for Rechargeable Lithium Batteries. Advanced Science, 2020, 7, 1902646.	11.2	47
48	An Organicâ€“Inorganic Hybrid Cathode Based on Sâ€“Se Dynamic Covalent Bonds. Angewandte Chemie, 2020, 132, 2676-2680.	2.0	6
49	<i>In situ</i> and <i>operando</i> investigation of the dynamic morphological and phase changes of a selenium-doped germanium electrode during (de)lithiation processes. Journal of Materials Chemistry A, 2020, 8, 750-759.	10.3	21
50	Simultaneously Homogenized Electric Field and Ionic Flux for Reversible Ultrahigh-Areal-Capacity Li Deposition. Nano Letters, 2020, 20, 5662-5669.	9.1	29
51	Conversion of CO₂ to chemical feedstocks over bismuth nanosheets <i>in situ</i> grown on nitrogen-doped carbon. Journal of Materials Chemistry A, 2020, 8, 19938-19945.	10.3	18
52	Electrochemistry of Electrode Materials Containing Sâˆ’Se Bonds for Rechargeable Batteries. Chemistry - A European Journal, 2020, 26, 13322-13331.	3.3	17
53	Twoâ€Plateau Liâ€Se Chemistry for High Volumetric Capacity Se Cathodes. Angewandte Chemie, 2020, 132, 14012-14018.	2.0	9
54	Organosulfides: An Emerging Class of Cathode Materials for Rechargeable Lithium Batteries. Accounts of Chemical Research, 2019, 52, 2290-2300.	15.6	177

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55	Lithium Benzenedithiolate Catholytes for Rechargeable Lithium Batteries. Advanced Functional Materials, 2019, 29, 1902223.	14.9	44
56	Lowering the charge overpotential of Li₂S <i>via</i> the inductive effect of phenyl diselenide in Liâ€“S batteries. Chemical Communications, 2019, 55, 7655-7658.	4.1	30
57	Tuning the electrochemical behavior of organodisulfides in rechargeable lithium batteries using N-containing heterocycles. Journal of Materials Chemistry A, 2019, 7, 7423-7429.	10.3	55
58	Polyphenyl polysulfide: a new polymer cathode material for Liâ€“S batteries. Chemical Communications, 2019, 55, 4857-4860.	4.1	47
59	Selenium Nanocomposite Cathode with Long Cycle Life for Rechargeable Lithiumâ€Selenium Batteries. Batteries and Supercaps, 2019, 2, 784-791.	4.7	31
60	In Situ Focused Ion Beam Scanning Electron Microscope Study of Microstructural Evolution of Single Tin Particle Anode for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 1733-1738.	8.0	42
61	Rationally Designed High-Sulfur-Content Polymeric Cathode Material for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 6136-6142.	8.0	57
62	Electrochemical behavior of tin foil anode in half cell and full cell with sulfur cathode. Electrochimica Acta, 2019, 294, 60-67.	5.2	4
63	Challenges and perspectives of garnet solid electrolytes for all solid-state lithium batteries. Journal of Power Sources, 2018, 389, 120-134.	7.8	359
64	Polyphenylene Tetrasulfide as an Inherently Flexible Cathode Material for Rechargeable Lithium Batteries. ACS Applied Energy Materials, 2018, 1, 5859-5864.	5.1	62
65	A Perspective on Energy Densities of Rechargeable Liâ€S Batteries and Alternative Sulfurâ€Based Cathode Materials. Energy and Environmental Materials, 2018, 1, 20-27.	12.8	104
66	Reductive defluorination of graphite monofluoride by weak, non-nucleophilic reductants reveals low-lying electron-accepting sites. Physical Chemistry Chemical Physics, 2018, 20, 14287-14290.	2.8	9
67	Mixture is better: enhanced electrochemical performance of phenyl selenosulfide in rechargeable lithium batteries. Chemical Communications, 2018, 54, 8873-8876.	4.1	49
68	Phenyl Selenosulfides as Cathode Materials for Rechargeable Lithium Batteries. Advanced Functional Materials, 2018, 28, 1801791.	14.9	66
69	A Class of Organopolysulfides As Liquid Cathode Materials for High-Energy-Density Lithium Batteries. ACS Applied Materials & Interfaces, 2018, 10, 21084-21090.	8.0	68
70	Geometric and Electrochemical Characteristics of LiNi1/3Mn1/3Co1/3O2 Electrode with Different Calendering Conditions. Electrochimica Acta, 2017, 232, 431-438.	5.2	42
71	Bis(aryl) Tetrasulfides as Cathode Materials for Rechargeable Lithium Batteries. Chemistry - A European Journal, 2017, 23, 16941-16947.	3.3	56
72	The unique chemistry of thiuram polysulfides enables energy dense lithium batteries. Journal of Materials Chemistry A, 2017, 5, 25005-25013.	10.3	71

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73	Organotrisulfide: A High Capacity Cathode Material for Rechargeable Lithium Batteries. Angewandte Chemie - International Edition, 2016, 55, 10027-10031.	13.8	158
74	Highly Reversible Diphenyl Trisulfide Catholyte for Rechargeable Lithium Batteries. ACS Energy Letters, 2016, 1, 1221-1226.	17.4	82
75	A Graphite-Polysulfide Full Cell with DME-Based Electrolyte. Journal of the Electrochemical Society, 2016, 163, A1543-A1549.	2.9	22
76	A binder-free sulfur/carbon composite electrode prepared by a sulfur sublimation method for Liâ€“S batteries. RSC Advances, 2016, 6, 52642-52645.	3.6	10
77	Chemically synthesized lithium peroxide composite cathodes for closed system Liâ€“O₂ batteries. Chemical Communications, 2016, 52, 5678-5681.	4.1	7
78	Novel gel polymer electrolyte for high-performance lithiumâ€“sulfur batteries. Nano Energy, 2016, 22, 278-289.	16.0	382
79	Lithium Peroxide-Carbon Composite Cathode for Closed System Li-O₂Batteries. Journal of the Electrochemical Society, 2015, 162, A1327-A1333.	2.9	13
80	Polysulfide transport through separators measured by a linear voltage sweep method. Journal of Power Sources, 2015, 286, 557-560.	7.8	19
81	Enhanced Cyclability of Li/Polysulfide Batteries by a Polymer-Modified Carbon Paper Current Collector. ACS Applied Materials & Interfaces, 2015, 7, 20369-20376.	8.0	31
82	Li₂S Nanocrystals Confined in Free-Standing Carbon Paper for High Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2015, 7, 21479-21486.	8.0	73
83	Li₂Sâ€Carbon Sandwiched Electrodes with Superior Performance for Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1300655.	19.5	141
84	Imidazole-buffered acidic catholytes for hybrid Liâ€“air batteries with high practical energy density. Electrochemistry Communications, 2014, 47, 67-70.	4.7	29
85	Rechargeable Lithiumâ€“Sulfur Batteries. Chemical Reviews, 2014, 114, 11751-11787.	47.7	3,842
86	Effect of non-active area on the performance of subgasketed MEAs in PEMFC. International Journal of Hydrogen Energy, 2013, 38, 7400-7406.	7.1	8
87	Electrochemical properties of Cu2S with ether-based electrolyte in Li-ion batteries. Electrochimica Acta, 2013, 109, 716-719.	5.2	26
88	Improved lithiumâ€“sulfur cells with a treated carbon paper interlayer. Physical Chemistry Chemical Physics, 2013, 15, 2291.	2.8	241
89	Silicon nanoparticles supported on graphitic carbon paper as a hybrid anode for Li-ion batteries. Nano Energy, 2013, 2, 1107-1112.	16.0	36
90	<i>In Situ</i>-Formed Li₂S in Lithiated Graphite Electrodes for Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2013, 135, 18044-18047.	13.7	140

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91	Highly reversible Li/dissolved polysulfide batteries with binder-free carbon nanofiber electrodes. Journal of Materials Chemistry A, 2013, 1, 10362.	10.3	135
92	In Charge of the World: Electrochemical Energy Storage. Journal of Physical Chemistry Letters, 2013, 4, 1295-1297.	4.6	60
93	Highly Reversible Lithium/Dissolved Polysulfide Batteries with Carbon Nanotube Electrodes. Angewandte Chemie - International Edition, 2013, 52, 6930-6935.	13.8	291
94	Fast, Reversible Lithium Storage with a Sulfur/Longâ€Chainâ€Polysulfide Redox Couple. Chemistry - A European Journal, 2013, 19, 8621-8626.	3.3	58
95	Challenges and Prospects of Lithiumâ€"Sulfur Batteries. Accounts of Chemical Research, 2013, 46, 1125-1134.	15.6	1,962
96	A strategic approach to recharging lithium-sulphur batteries for long cycle life. Nature Communications, 2013, 4, 2985.	12.8	376
97	Nanostructured Materials for Lithium-Ion Batteries. Journal of Nanomaterials, 2013, 2013, 1-1.	2.7	3
98	Novel Blend Membranes Based on Acid-Base Interactions for Fuel Cells. Polymers, 2012, 4, 1627-1644.	4.5	106
99	Orthorhombic Bipyramidal Sulfur Coated with Polypyrrole Nanolayers As a Cathode Material for Lithiumâ€"Sulfur Batteries. Journal of Physical Chemistry C, 2012, 116, 8910-8915.	3.1	259
100	Sulfurâ€"Carbon Nanocomposite Cathodes Improved by an Amphiphilic Block Copolymer for High-Rate Lithiumâ€"Sulfur Batteries. ACS Applied Materials & Interfaces, 2012, 4, 6046-6052.	8.0	98
101	Enhanced Cyclability of Lithiumâ€"Sulfur Batteries by a Polymer Acid-Doped Polypyrrole Mixed Ionicâ€"Electronic Conductor. Chemistry of Materials, 2012, 24, 3081-3087.	6.7	166
102	Self-weaving sulfurâ€"carbon composite cathodes for high rate lithiumâ€"sulfur batteries. Physical Chemistry Chemical Physics, 2012, 14, 14495.	2.8	163
103	Composite membranes based on sulfonated poly(ether ether ketone) and SDBS-adsorbed graphene oxide for direct methanol fuel cells. Journal of Materials Chemistry, 2012, 22, 24862.	6.7	192
104	Hydrocarbon blend membranes with suppressed chemical crossover for redox flow batteries. RSC Advances, 2012, 2, 5554.	3.6	29
105	Core-shell structured sulfur-polypyrrole composite cathodes for lithium-sulfur batteries. RSC Advances, 2012, 2, 5927.	3.6	211
106	Polyprotic acid catholyte for high capacity dual-electrolyte Liâ€"air batteries. Physical Chemistry Chemical Physics, 2012, 14, 12737.	2.8	38
107	Sulfur-Polypyrrole Composite Cathodes for Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2012, 159, A1420-A1424.	2.9	141
108	Influence of ionomer content on the proton conduction and oxygen transport in the carbon-supported catalyst layers in DMFC. International Journal of Hydrogen Energy, 2012, 37, 9845-9852.	7.1	38

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109	Sulfonated polysulfone with 1,3-1H-dibenzimidazole-benzene additive as a membrane for direct methanol fuel cells. Journal of Membrane Science, 2008, 310, 262-267.	8.2	40
110	Acidâ€“base blend membranes based on 2-amino-benzimidazole and sulfonated poly(ether ether ketone) for direct methanol fuel cells. Electrochemistry Communications, 2007, 9, 905-910.	4.7	81
111	Blend membranes based on sulfonated poly(ether ether ketone) and polysulfone bearing benzimidazole side groups for proton exchange membrane fuel cells. Electrochemistry Communications, 2006, 8, 1386-1390.	4.7	112
112	Development of novel self-humidifying composite membranes for fuel cells. Journal of Power Sources, 2003, 124, 81-89.	7.8	145
113	Degradation mechanism of polystyrene sulfonic acid membrane and application of its composite membranes in fuel cells. Physical Chemistry Chemical Physics, 2003, 5, 611-615.	2.8	143