Yulong Liu

List of Publications by Year
in descending order

47 papers	3,186 citations	172457 29 h-index	214800 47 g-index
47 all docs	47 docs citations	47 times ranked	4116 citing authors

#	Article	IF	Citations
1	Quasi-solid-state lithium-tellurium batteries based on flexible gel polymer electrolytes. Journal of Colloid and Interface Science, 2022, 605, 547-555.	9.4	9
2	â€œPolymer-in-ceramicâ€•based poly(Æ•caprolactone)/ceramic composite electrolyte for all-solid-state batteries. Journal of Energy Chemistry, 2021, 52, 318-325.	12.9	43
3	A durable lithiumâ€“tellurium battery: Effects of carbon pore structure and tellurium content. Carbon, 2021, 173, 11-21.	10.3	30
4	Low Resistance and High Stable Solidâ€“Liquid Electrolyte Interphases Enable Highâ€Voltage Solidâ€State Lithium Metal Batteries. Advanced Functional Materials, 2021, 31, 2010611.	14.9	34
5	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. Chemistry of Materials, 2021, 33, 2029-2036.	6.7	8
6	Insight into Ion Diffusion Dynamics/Mechanisms and Electronic Structure of Highly Conductive Sodium-Rich Na_{3+<i>x</i>}La_{<i>x</i>}Zr_{2â€“<i>x</i>}Si₂PO₁₂ (0 â‰ <i>x</i> â‰ 0.5) Solid-State Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 13132-13138.	8.0	27
7	Origin of High Ionic Conductivity of Scâ€Doped Sodiumâ€Rich NASICON Solidâ€State Electrolytes. Advanced Functional Materials, 2021, 31, 2102129.	14.9	49
8	The role of carbon pore structure in tellurium/carbon cathodes for lithium-tellurium batteries. Electrochimica Acta, 2021, 388, 138621.	5.2	12
9	A liquid-free poly(butylene oxide) electrolyte for near-room-temperature and 4-V class all-solid-state lithium batteries. Nano Energy, 2021, 90, 106566.	16.0	7
10	Pseudocapacitance controlled fast-charging and long-life lithium ion battery achieved via a 3D mutually embedded VPO4/rGO electrode. Journal of Alloys and Compounds, 2020, 812, 152135.	5.5	18
11	Variable-Energy Hard X-ray Photoemission Spectroscopy: A Nondestructive Tool to Analyze the Cathodeâ€“Solid-State Electrolyte Interface. ACS Applied Materials & Interfaces, 2020, 12, 2293-2298.	8.0	15
12	3D Porous Garnet/Gel Polymer Hybrid Electrolyte for Safe Solid-State Liâ€“O₂ Batteries with Long Lifetimes. Chemistry of Materials, 2020, 32, 10113-10119.	6.7	39
13	Dendrite-free lithium metal solid battery with a novel polyester based triblock copolymer solid-state electrolyte. Nano Energy, 2020, 72, 104690.	16.0	76
14	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. ACS Energy Letters, 2020, 5, 1035-1043.	17.4	176
15	High-performance PVDF-HFP based gel polymer electrolyte with a safe solvent in Li metal polymer battery. Journal of Energy Chemistry, 2020, 49, 80-88.	12.9	155
16	Ultralongâ€Life Quasiâ€Solidâ€State Liâ€O₂ Batteries Enabled by Coupling Advanced Air Electrode Design with Li Metal Anode Protection. Small Methods, 2019, 3, 1800437.	8.6	35
17	Insight into the Microstructure and Ionic Conductivity of Cold Sintered NASICON Solid Electrolyte for Solid-State Batteries. ACS Applied Materials & Interfaces, 2019, 11, 27890-27896.	8.0	72
18	Activation-free synthesis of microporous carbon from polyvinylidene fluoride as host materials for lithium-selenium batteries. Journal of Power Sources, 2019, 438, 227059.	7.8	27

#	Article	IF	Citations
19	Cobaltâ€Doped SnS₂ with Dual Active Centers of Synergistic Absorptionâ€Catalysis Effect for Highâ€S Loading Liâ€S Batteries. Advanced Functional Materials, 2019, 29, 1806724.	14.9	186
20	In-situ formed Li2CO3-free garnet/Li interface by rapid acid treatment for dendrite-free solid-state batteries. Nano Energy, 2019, 61, 119-125.	16.0	281
21	High-areal-capacity all-solid-state lithium batteries enabled by rational design of fast ion transport channels in vertically-aligned composite polymer electrodes. Nano Energy, 2019, 61, 567-575.	16.0	126
22	Manipulating Interfacial Nanostructure to Achieve Highâ€Performance Allâ€Solidâ€State Lithiumâ€Ion Batteries. Small Methods, 2019, 3, 1900261.	8.6	90
23	Visualization of the secondary phase in LiFePO4 ingots with advanced mapping techniques. Canadian Journal of Chemical Engineering, 2019, 97, 2218-2223.	1.7	2
24	Engineering a â€œnanonetâ€•reinforced polymer electrolyte for long-life Liâ€“O2 batteries. Journal of Materials Chemistry A, 2019, 7, 24947-24952.	10.3	16
25	Chemical speciation and mapping of the Si in Si doped LFP ingot with synchrotron radiation technique. Canadian Journal of Chemical Engineering, 2019, 97, 2211-2217.	1.7	4
26	Formation of size-dependent and conductive phase on lithium iron phosphate during carbon coating. Nature Communications, 2018, 9, 929.	12.8	45
27	Production of Lithium-Ion Cathode Material for Automotive Batteries Using Melting Casting Process. Minerals, Metals and Materials Series, 2018, , 135-146.	0.4	2
28	Origin of phase inhomogeneity in lithium iron phosphate during carbon coating. Nano Energy, 2018, 45, 52-60.	16.0	26
29	Boosting the performance of lithium batteries with solid-liquid hybrid electrolytes: Interfacial properties and effects of liquid electrolytes. Nano Energy, 2018, 48, 35-43.	16.0	143
30	Stabilization of all-solid-state Liâ€“S batteries with a polymerâ€“ceramic sandwich electrolyte by atomic layer deposition. Journal of Materials Chemistry A, 2018, 6, 23712-23719.	10.3	77
31	Development of the cold sintering process and its application in solid-state lithium batteries. Journal of Power Sources, 2018, 393, 193-203.	7.8	92
32	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2018, 10, 31240-31248.	8.0	207
33	Stabilizing interface between Li10SnP2S12 and Li metal by molecular layer deposition. Nano Energy, 2018, 53, 168-174.	16.0	132
34	Highly stable Li 1.2 Mn 0.54 Co 0.13 Ni 0.13 O 2 enabled by novel atomic layer deposited AlPO 4 coating. Nano Energy, 2017, 34, 120-130.	16.0	188
35	Decoupling atomic-layer-deposition ultrafine RuO 2 for high-efficiency and ultralong-life Li-O 2 batteries. Nano Energy, 2017, 34, 399-407.	16.0	63
36	Inkjet-printed silicon as high performance anodes for Li-ion batteries. Nano Energy, 2017, 36, 313-321.	16.0	107

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37	Origin of the high oxygen reduction reaction of nitrogen and sulfur co-doped MOF-derived nanocarbon electrocatalysts. Materials Horizons, 2017, 4, 900-907.	12.2	95
38	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as Highâ€Performance Cathode. Advanced Materials, 2017, 29, 1703764.	21.0	119
39	Metalâ€"Organic Framework-Derived Reduced Graphene Oxide-Supported ZnO/ZnCo₂O₄/C Hollow Nanocages as Cathode Catalysts for Aluminumâ€"O₂ Batteries. ACS Applied Materials & Interfaces, 2017, 9, 31841-31852.	8.0	68
40	Facile method for investigating electrochemically induced products in films deposited directly on grids as working electrodes. Materials Letters, 2015, 157, 1-3.	2.6	1
41	Phase evolution of magnetron sputtered nanostructured ATO on grid during lithiationâ€"delithiation processes as model electrodes for Li-ion battery. Physical Chemistry Chemical Physics, 2014, 16, 5056.	2.8	5
42	High electrochemical performance and phase evolution of magnetron sputtered MoO₂ thin films with hierarchical structure for Li-ion battery electrodes. Journal of Materials Chemistry A, 2014, 2, 4714-4721.	10.3	49
43	Microstructure evolution of Li uptake/removal in MoO2@C nanoparticles with high lithium storage performance. Materials Research Bulletin, 2014, 50, 95-102.	5.2	18
44	Cubic spinel cobalt oxide/multi-walled carbon nanotube composites as an efficient bifunctionalelectrocatalyst for oxygen reaction. Electrochemistry Communications, 2013, 34, 125-129.	4.7	58
45	Bi-Functional N-Doped CNT/Graphene Composite as Highly Active and Durable Electrocatalyst for Metal Air Battery Applications. Journal of the Electrochemical Society, 2013, 160, A2244-A2250.	2.9	57
46	One-pot hydrothermal synthesized MoO2 with high reversible capacity for anode application in lithium ion battery. Electrochimica Acta, 2013, 102, 429-435.	5.2	77
47	Electrical properties of hexagonal BaTi1â^'x Fe x O3â^'Î´ (xÂ=Â0.1, 0.2, 0.3) ceramics with NTC effect. Journal of Materials Science: Materials in Electronics, 2012, 23, 1306-1312.	2.2	20