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	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
2	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
3	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
4	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
5	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. ACS Energy Letters, 2020, 5, 1035-1043.	17.4	176
6	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
7	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
8	Stabilizing interface between Li10SnP2S12 and Li metal by molecular layer deposition. Nano Energy, 2018, 53, 168-174.	16.0	132
9	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
10	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
11	Inkjet-printed silicon as high performance anodes for Li-ion batteries. Nano Energy, 2017, 36, 313-321.	16.0	107
12	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
13	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
14	Manipulating Interfacial Nanostructure to Achieve Highâ€Performance Allâ€Solidâ€State Lithiumâ€Ion Batteries. Small Methods, 2019, 3, 1900261.	8.6	90
15	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
16	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
17	Dendrite-free lithium metal solid battery with a novel polyester based triblock copolymer solid-state electrolyte. Nano Energy, 2020, 72, 104690.	16.0	76
18	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

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19	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
20	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
21	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
22	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
23	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
24	Origin of High Ionic Conductivity of Scâ€Doped Sodiumâ€Rich NASICON Solidâ€State Electrolytes. Advanced Functional Materials, 2021, 31, 2102129.	14.9	49
25	Formation of size-dependent and conductive phase on lithium iron phosphate during carbon coating. Nature Communications, 2018, 9, 929.	12.8	45
26	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
27	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
28	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
29	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
30	A durable lithiumâ€“tellurium battery: Effects of carbon pore structure and tellurium content. Carbon, 2021, 173, 11-21.	10.3	30
31	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
32	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
33	Origin of phase inhomogeneity in lithium iron phosphate during carbon coating. Nano Energy, 2018, 45, 52-60.	16.0	26
34	Electrical properties of hexagonal BaTi1âˆ’x Fe x O3âˆ’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
35	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
36	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

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37	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
38	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
39	The role of carbon pore structure in tellurium/carbon cathodes for lithium-tellurium batteries. Electrochimica Acta, 2021, 388, 138621.	5.2	12
40	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
41	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. Chemistry of Materials, 2021, 33, 2029-2036.	6.7	8
42	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
43	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
44	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
45	Production of Lithium-Ion Cathode Material for Automotive Batteries Using Melting Casting Process. Minerals, Metals and Materials Series, 2018, , 135-146.	0.4	2
46	Visualization of the secondary phase in LiFePO4 ingots with advanced mapping techniques. Canadian Journal of Chemical Engineering, 2019, 97, 2218-2223.	1.7	2
47	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