Yusong Zhu

List of Publications by Year in Descending Order

92 papers	6,455 citations	39 h-index	80 g-index
99 ext. papers	7,716 ext. citations	10.3 avg, IF	6.01 L-index

#	Paper	IF	Citations
92	Boosting Polysulfide Catalytic Conversion and Facilitating Li Transportation by Ion-Selective COFs Composite Nanowire for Li?S Batteries.. *Small*, **2022**, e2106679	11	5
91	Li 4 Ti 5 O 12 Coating on Copper Foil as Ion Redistributor Layer for Stable Lithium Metal Anode. *Advanced Energy Materials*, **2022**, 12, 2103112	21.8	3
90	Porous CoVO Nanodisk as a High-Energy and Fast-Charging Anode for Lithium-Ion Batteries. *Nano-Micro Letters*, **2021**, 14, 5	19.5	20
89	An efficient method for 3,4-dihydroisoquinolinium ion formation, leading to a facile introduction of nucleophiles. *Journal of Heterocyclic Chemistry*, **2021**, 58, 751-756	1.9	
88	Nonporous Gel Electrolytes Enable Long Cycling at High Current Density for Lithium-Metal Anodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 14258-14266	9.5	8
87	A simple synthesis of Co3O4@CNT to boost electrochemical nitrogen fixation. *Electrochimica Acta*, **2021**, 367, 137421	6.7	6
86	Latest Advances in High-Voltage and High-Energy-Density Aqueous Rechargeable Batteries. *Electrochemical Energy Reviews*, **2021**, 4, 1-34	29.3	52
85	A selenium-doped carbon anode of high performance for lithium ion batteries. *Journal of Solid State Electrochemistry*, **2021**, 25, 457-464	2.6	1
84	2,3-Dimethoxy-2,3-dimethyl-1,4-dioxane as a useful precursor to 2,3-dimethylene-1,4-dioxane for [4+2] cycloaddition reaction.. *RSC Advances*, **2021**, 11, 7972-7980	3.7	
83	A binary PMMA/PVDF blend film modified substrate enables a superior lithium metal anode for lithium batteries. *Materials Advances*, **2021**, 2, 4240-4245	3.3	6
82	CoO@NiCoO double-shelled nanocages with hierarchical hollow structure and oxygen vacancies as efficient bifunctional electrocatalysts for rechargeable Zn-air batteries. *Dalton Transactions*, **2021**, 50, 2093-2101	4.3	3
81	-Alkylation/aldol reaction of □aldimino thioesters: a facile three-component coupling reaction.. *RSC Advances*, **2021**, 11, 13097-13104	3.7	
80	A three-dimensional interconnected nitrogen-doped graphene-like porous carbon-modified separator for high-performance Li□ batteries. *Sustainable Energy and Fuels*, **2020**, 4, 4264-4272	5.8	2
79	An umpolung reaction of □minothioesters possessing a cyclopropyl group.. *RSC Advances*, **2020**, 10, 9955-9963	3.7	5
78	Modifications of Separators for Li□ Batteries with Improved Electrochemical Performance. *Russian Journal of Electrochemistry*, **2020**, 56, 365-377	1.2	8
77	Polymer Electrolytes for Lithium Ion Batteries and Challenges: Part I **2020**, 187-199		0
76	An umpolung reaction of □minonitriles and its application to the synthesis of aminomalononitriles. *New Journal of Chemistry*, **2020**, 44, 152-161	3.6	10

75	A multifunctional separator for high-performance lithium-sulfur batteries. *Electrochimica Acta*, **2020**, 334, 135486	6.7	16
74	A Fully Aqueous Hybrid Electrolyte Rechargeable Battery with High Voltage and High Energy Density. *Advanced Energy Materials*, **2020**, 10, 2001583	21.8	21
73	Advances in rechargeable Mg batteries. *Journal of Materials Chemistry A*, **2020**, 8, 25601-25625	13	35
72	Preparation and facile addition reactions of iminium salts derived from amino ketene silyl acetal and amino silyl enol ether.. *RSC Advances*, **2020**, 10, 27874-27883	3.7	1
71	Highly efficient Co3O4/Co@NCs bifunctional oxygen electrocatalysts for long life rechargeable Zn-air batteries. *Nano Energy*, **2020**, 77, 105200	17.1	30
70	Nylon-Based Composite Gel Membrane Fabricated via Sequential Layer-by-Layer Electrospinning for Rechargeable Lithium Batteries with High Performance. *Polymers*, **2020**, 12,	4.5	3
69	In Pursuit of a Dendrite-Free Electrolyte/Electrode Interface on Lithium Metal Anodes: A Minireview. *Energy & Fuels*, **2020**, 34, 10503-10512	4.1	12
68	A high-voltage aqueous lithium ion capacitor with high energy density from an alkaline–neutral electrolyte. *Journal of Materials Chemistry A*, **2019**, 7, 4110-4118	13	42
67	A facile approach to 2-alkoxyindolin-3-one and its application to the synthesis of -benzyl matemone.. *RSC Advances*, **2019**, 9, 17341-17346	3.7	7
66	An acetylene black modified gel polymer electrolyte for high-performance lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2019**, 7, 13679-13686	13	44
65	Achieving a high-performance Prussian blue analogue cathode with an ultra-stable redox reaction for ammonium ion storage. *Nanoscale Horizons*, **2019**, 4, 991-998	10.8	39
64	Three-dimensional ordered porous electrode materials for electrochemical energy storage. *NPG Asia Materials*, **2019**, 11,	10.3	126
63	CoS /C hierarchical hollow nanocages from a metal-organic framework as a positive electrode with enhancing performance for aqueous supercapacitors.. *RSC Advances*, **2019**, 9, 11253-11262	3.7	11
62	Oxygen/phosphorus co-doped porous carbon from cicada slough as high-performance electrode material for supercapacitors. *Scientific Reports*, **2019**, 9, 5431	4.9	22
61	Synergy of Sulfur/Polyacrylonitrile Composite and Gel Polymer Electrolyte Promises Heat-Resistant Lithium-Sulfur Batteries. *IScience*, **2019**, 19, 316-325	6.1	24
60	Double nucleophilic addition to iminomalonate, leading to the synthesis of quaternary -amino diesters and desymmetrization of the products.. *RSC Advances*, **2019**, 9, 23400-23407	3.7	10
59	A High-Rate and Long-Life Aqueous Rechargeable Ammonium Zinc Hybrid Battery. *ChemSusChem*, **2019**, 12, 3732-3736	8.3	30
58	A Low-Cost Zn-Based Aqueous Supercapacitor with High Energy Density. *ACS Applied Energy Materials*, **2019**, 2, 5835-5842	6.1	38

57	A Facile Synthesis of 2-Methyl-3-oxoindoline-2-carboxylates Utilizing Aza-Brook Rearrangement as a Crucial Step. *Journal of Heterocyclic Chemistry*, **2019**, 56, 2479-2486	1.9	1
56	A Compact Gel Membrane Based on a Blend of PEO and PVDF for Dendrite-Free Lithium Metal Anodes. *ChemElectroChem*, **2019**, 6, 5413-5419	4.3	11
55	High-Rate and High-Voltage Aqueous Rechargeable Zinc Ammonium Hybrid Battery from Selective Cation Intercalation Cathode. *ACS Applied Energy Materials*, **2019**, 2, 6984-6989	6.1	30
54	A Facile, One-Step Synthesis of Silicon/Silicon Carbide/Carbon Nanotube Nanocomposite as a Cycling-Stable Anode for Lithium Ion Batteries. *Nanomaterials*, **2019**, 9,	5.4	28
53	Covalent Bonding of Si Nanoparticles on Graphite Nanosheets as Anodes for Lithium-Ion Batteries Using Diazonium Chemistry. *Nanomaterials*, **2019**, 9,	5.4	10
52	Methods to Improve Lithium Metal Anode for Li-S Batteries. *Frontiers in Chemistry*, **2019**, 7, 827	5	27
51	Fabricating an Aqueous Symmetric Supercapacitor with a Stable High Working Voltage of 2 V by Using an Alkaline-Acidic Electrolyte. *Advanced Science*, **2019**, 6, 1801665	13.6	81
50	Ultrathin NiCo2S4@graphene with a core□shell structure as a high performance positive electrode for hybrid supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 5856-5861	13	128
49	Sulfur nanocomposite as a positive electrode material for rechargeable potassium-sulfur batteries. *Chemical Communications*, **2018**, 54, 2288-2291	5.8	71
48	Gel polymer electrolytes for lithium ion batteries: Fabrication, characterization and performance. *Solid State Ionics*, **2018**, 318, 2-18	3.3	110
47	Hollow Co9S8 from metal organic framework supported on rGO as electrode material for highly stable supercapacitors. *Chinese Chemical Letters*, **2018**, 29, 612-615	8.1	22
46	Advances of TiO2 as Negative Electrode Materials for Sodium-Ion Batteries. *Advanced Materials Technologies*, **2018**, 3, 1800004	6.8	39
45	Metal oxides in supercapacitors **2018**, 169-203		16
44	Metal oxides in batteries **2018**, 127-167		6
43	Exposed high-energy facets in ultradispersed sub-10 nm SnO2 nanocrystals anchored on graphene for pseudocapacitive sodium storage and high-performance quasi-solid-state sodium-ion capacitors. *NPG Asia Materials*, **2018**, 10, 429-440	10.3	36
42	Advances of Aluminum Based Energy Storage Systems. *Chinese Journal of Chemistry*, **2017**, 35, 13-20	4.9	25
41	Si/C Composites as Negative Electrode for High Energy Lithium Ion Batteries. *Chinese Journal of Chemistry*, **2017**, 35, 21-29	4.9	23
40	Cubic Prussian blue crystals from a facile one-step synthesis as positive electrode material for superior potassium-ion capacitors. *Electrochimica Acta*, **2017**, 232, 106-113	6.7	78

39	Enhancing performance of sandwich-like cobalt sulfide and carbon for quasi-solid-state hybrid electrochemical capacitors. *Journal of Materials Chemistry A*, **2017**, 5, 8981-8988	13	26
38	A quasi-solid-state Li-ion capacitor with high energy density based on Li3VO4/carbon nanofibers and electrochemically-exfoliated graphene sheets. *Journal of Materials Chemistry A*, **2017**, 5, 14922-14929	13	74
37	A Cr2O3/MWCNTs composite as a superior electrode material for supercapacitor. *RSC Advances*, **2017**, 7, 25019-25024	3.7	19
36	A porous gel-type composite membrane reinforced by nonwoven: promising polymer electrolyte with high performance for sodium ion batteries. *Electrochimica Acta*, **2017**, 224, 405-411	6.7	63
35	Latest advances in supercapacitors: from new electrode materials to novel device designs. *Chemical Society Reviews*, **2017**, 46, 6816-6854	58.5	1120
34	CoCO from one-step micro-emulsion method as electrode materials for Faradaic capacitors. *Scientific Reports*, **2017**, 7, 2026	4.9	9
33	A high-capacity dual core-shell structured MWCNTs@S@PPy nanocomposite anode for advanced aqueous rechargeable lithium batteries. *Nanoscale*, **2017**, 9, 11004-11011	7.7	29
32	Enhanced Capacitive Desalination Performance of Porous Carbon Spheres@MnO2 Composite. *Chinese Journal of Chemistry*, **2017**, 35, 55-60	4.9	5
31	Prussian blue as positive electrode material for aqueous sodium-ion capacitor with excellent performance. *RSC Advances*, **2016**, 6, 109340-109345	3.7	26
30	A lithium ion battery using an aqueous electrolyte solution. *Scientific Reports*, **2016**, 6, 28421	4.9	26
29	An Aqueous Rechargeable Zn//Co3 O4 Battery with High Energy Density and Good Cycling Behavior. *Advanced Materials*, **2016**, 28, 4904-11	24	305
28	Aqueous Rechargeable Zinc/Aluminum Ion Battery with Good Cycling Performance. *ACS Applied Materials & Interfaces*, **2016**, 8, 9022-9	9.5	94
27	Electrode materials with tailored facets for electrochemical energy storage. *Nanoscale Horizons*, **2016**, 1, 272-289	10.8	75
26	A conductive polymer coated MoO3 anode enables an Al-ion capacitor with high performance. *Journal of Materials Chemistry A*, **2016**, 4, 5115-5123	13	99
25	Synthesis and performance of Cu2ZnSnS4 semiconductor as photocathode for solar water splitting. *Journal of Alloys and Compounds*, **2016**, 688, 923-932	5.7	30
24	ZIF-8@MWCNT-derived carbon composite as electrode of high performance for supercapacitor. *Electrochimica Acta*, **2016**, 213, 260-269	6.7	108
23	Nanostructured positive electrode materials for post-lithium ion batteries. *Energy and Environmental Science*, **2016**, 9, 3570-3611	35.4	202
22	A Quasi-Solid-State Li-Ion Capacitor Based on Porous TiO Hollow Microspheres Wrapped with Graphene Nanosheets. *Small*, **2016**, 12, 6207-6213	11	99

21	A Zn–NiO rechargeable battery with long lifespan and high energy density. *Journal of Materials Chemistry A*, **2015**, 3, 8280-8283	13	112
20	A nanocomposite of Li 2 MnO 3 coated by FePO 4 as cathode material for lithium ion batteries. *Journal of Power Sources*, **2015**, 287, 416-421	8.9	44
19	Core–shell MnO2@Fe2O3 nanospindles as a positive electrode for aqueous supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 22066-22072	13	47
18	A Quasi-Solid-State Sodium-Ion Capacitor with High Energy Density. *Advanced Materials*, **2015**, 27, 6962-8	24	155
17	Composite of CoOOH Nanoplates with Multiwalled Carbon Nanotubes as Superior Cathode Material for Supercapacitors. *Journal of Physical Chemistry C*, **2015**, 119, 7069-7075	3.8	42
16	Composites of porous Co3O4 grown on Li2MnO3 microspheres as cathode materials for lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 4840-4845	13	41
15	A Composite Gel Polymer Electrolyte with High Performance Based on Poly(Vinylidene Fluoride) and Polyborate for Lithium Ion Batteries. *Advanced Energy Materials*, **2014**, 4, 1300647	21.8	202
14	Macroporous LiFePO4 as a cathode for an aqueous rechargeable lithium battery of high energy density. *Journal of Materials Chemistry A*, **2013**, 1, 14713	13	63
13	Composite of a nonwoven fabric with poly(vinylidene fluoride) as a gel membrane of high safety for lithium ion battery. *Energy and Environmental Science*, **2013**, 6, 618-624	35.4	287
12	An aqueous rechargeable lithium battery using coated Li metal as anode. *Scientific Reports*, **2013**, 3, 1401	4.9	174
11	Aqueous rechargeable lithium batteries as an energy storage system of superfast charging. *Energy and Environmental Science*, **2013**, 6, 2093	35.4	290
10	A trilayer poly(vinylidene fluoride)/polyborate/poly(vinylidene fluoride) gel polymer electrolyte with good performance for lithium ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 7790	13	144
9	Non-equilibrium Structural Evolution of the Lithium-Rich Li1+yMn2O4 Cathode within a Battery. *Chemistry of Materials*, **2013**, 25, 754-760	9.6	44
8	Cheap glass fiber mats as a matrix of gel polymer electrolytes for lithium ion batteries. *Scientific Reports*, **2013**, 3, 3187	4.9	88
7	A hybrid of V2O5 nanowires and MWCNTs coated with polypyrrole as an anode material for aqueous rechargeable lithium batteries with excellent cycling performance. *Journal of Materials Chemistry*, **2012**, 22, 20143		131
6	An aqueous rechargeable lithium battery of excellent rate capability based on a nanocomposite of MoO3 coated with PPy and LiMn2O4. *Energy and Environmental Science*, **2012**, 5, 6909	35.4	200
5	Preparation of carbon coated MoO2 nanobelts and their high performance as anode materials for lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 13148		139
4	Core–Shell Structure of Polypyrrole Grown on V2O5 Nanoribbon as High Performance Anode Material for Supercapacitors. *Advanced Energy Materials*, **2012**, 2, 950-955	21.8	434

3	Hydrogen production by photoelectrochemically splitting solutions of formic acid. *ChemSusChem*, **2011**, 4, 1475-80	8.3	12
2	Critical advances in re-engineering the cathode-electrolyte interface in alkali metal-oxygen batteries		7
1	Two-dimensional graphitic carbon nitride/N-doped carbon with a direct Z-scheme heterojunction for photocatalytic generation of hydrogen. *Nanoscale Advances*,	5.1	3