

# Yusong Zhu

## List of Publications by Citations

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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	Latest advances in supercapacitors: from new electrode materials to novel device designs. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 6816-6854	58.5	1120
91	Core-shell Structure of Polypyrrole Grown on V2O5 Nanoribbon as High Performance Anode Material for Supercapacitors. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 950-955	21.8	434
90	An Aqueous Rechargeable Zn//Co3 O4 Battery with High Energy Density and Good Cycling Behavior. <i>Advanced Materials</i> , <b>2016</b> , 28, 4904-11	24	305
89	Aqueous rechargeable lithium batteries as an energy storage system of superfast charging. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2093	35.4	290
88	Composite of a nonwoven fabric with poly(vinylidene fluoride) as a gel membrane of high safety for lithium ion battery. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 618-624	35.4	287
87	A Composite Gel Polymer Electrolyte with High Performance Based on Poly(Vinylidene Fluoride) and Polyborate for Lithium Ion Batteries. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300647	21.8	202
86	Nanostructured positive electrode materials for post-lithium ion batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3570-3611	35.4	202
85	An aqueous rechargeable lithium battery of excellent rate capability based on a nanocomposite of MoO3 coated with PPy and LiMn2O4. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 6909	35.4	200
84	An aqueous rechargeable lithium battery using coated Li metal as anode. <i>Scientific Reports</i> , <b>2013</b> , 3, 1401.9	14.9	174
83	A Quasi-Solid-State Sodium-Ion Capacitor with High Energy Density. <i>Advanced Materials</i> , <b>2015</b> , 27, 6962-84	8.4	155
82	A trilayer poly(vinylidene fluoride)/polyborate/poly(vinylidene fluoride) gel polymer electrolyte with good performance for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7790	13	144
81	Preparation of carbon coated MoO2 nanobelts and their high performance as anode materials for lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13148		139
80	A hybrid of V2O5 nanowires and MWCNTs coated with polypyrrole as an anode material for aqueous rechargeable lithium batteries with excellent cycling performance. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20143		131
79	Ultrathin NiCo2S4@graphene with a core-shell structure as a high performance positive electrode for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5856-5861	13	128
78	Three-dimensional ordered porous electrode materials for electrochemical energy storage. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	126
77	A ZnNiO rechargeable battery with long lifespan and high energy density. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 8280-8283	13	112
76	Gel polymer electrolytes for lithium ion batteries: Fabrication, characterization and performance. <i>Solid State Ionics</i> , <b>2018</b> , 318, 2-18	3.3	110

75	ZIF-8@MWCNT-derived carbon composite as electrode of high performance for supercapacitor. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 260-269	6.7	108
74	A conductive polymer coated MoO <sub>3</sub> anode enables an Al-ion capacitor with high performance. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5115-5123	13	99
73	A Quasi-Solid-State Li-Ion Capacitor Based on Porous TiO Hollow Microspheres Wrapped with Graphene Nanosheets. <i>Small</i> , <b>2016</b> , 12, 6207-6213	11	99
72	Aqueous Rechargeable Zinc/Aluminum Ion Battery with Good Cycling Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9022-9	9.5	94
71	Cheap glass fiber mats as a matrix of gel polymer electrolytes for lithium ion batteries. <i>Scientific Reports</i> , <b>2013</b> , 3, 3187	4.9	88
70	Fabricating an Aqueous Symmetric Supercapacitor with a Stable High Working Voltage of 2 V by Using an Alkaline-Acidic Electrolyte. <i>Advanced Science</i> , <b>2019</b> , 6, 1801665	13.6	81
69	Cubic Prussian blue crystals from a facile one-step synthesis as positive electrode material for superior potassium-ion capacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 232, 106-113	6.7	78
68	Electrode materials with tailored facets for electrochemical energy storage. <i>Nanoscale Horizons</i> , <b>2016</b> , 1, 272-289	10.8	75
67	A quasi-solid-state Li-ion capacitor with high energy density based on Li <sub>3</sub> VO <sub>4</sub> /carbon nanofibers and electrochemically-exfoliated graphene sheets. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14922-14929	13	74
66	Sulfur nanocomposite as a positive electrode material for rechargeable potassium-sulfur batteries. <i>Chemical Communications</i> , <b>2018</b> , 54, 2288-2291	5.8	71
65	A porous gel-type composite membrane reinforced by nonwoven: promising polymer electrolyte with high performance for sodium ion batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 224, 405-411	6.7	63
64	Macroporous LiFePO <sub>4</sub> as a cathode for an aqueous rechargeable lithium battery of high energy density. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14713	13	63
63	Latest Advances in High-Voltage and High-Energy-Density Aqueous Rechargeable Batteries. <i>Electrochemical Energy Reviews</i> , <b>2021</b> , 4, 1-34	29.3	52
62	Core-shell MnO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> nanospindles as a positive electrode for aqueous supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 22066-22072	13	47
61	An acetylene black modified gel polymer electrolyte for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13679-13686	13	44
60	A nanocomposite of Li <sub>2</sub> MnO <sub>3</sub> coated by FePO <sub>4</sub> as cathode material for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 287, 416-421	8.9	44
59	Non-equilibrium Structural Evolution of the Lithium-Rich Li <sub>1+y</sub> Mn <sub>2</sub> O <sub>4</sub> Cathode within a Battery. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 754-760	9.6	44
58	A high-voltage aqueous lithium ion capacitor with high energy density from an alkaline-neutral electrolyte. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4110-4118	13	42

57	Composite of CoOOH Nanoplates with Multiwalled Carbon Nanotubes as Superior Cathode Material for Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 7069-7075	3.8	42
56	Composites of porous Co <sub>3</sub> O <sub>4</sub> grown on Li <sub>2</sub> MnO <sub>3</sub> microspheres as cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4840-4845	13	41
55	Achieving a high-performance Prussian blue analogue cathode with an ultra-stable redox reaction for ammonium ion storage. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 991-998	10.8	39
54	Advances of TiO <sub>2</sub> as Negative Electrode Materials for Sodium-Ion Batteries. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800004	6.8	39
53	A Low-Cost Zn-Based Aqueous Supercapacitor with High Energy Density. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5835-5842	6.1	38
52	Exposed high-energy facets in ultradispersed sub-10 nm SnO <sub>2</sub> nanocrystals anchored on graphene for pseudocapacitive sodium storage and high-performance quasi-solid-state sodium-ion capacitors. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 429-440	10.3	36
51	Advances in rechargeable Mg batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 25601-25625	13	35
50	A High-Rate and Long-Life Aqueous Rechargeable Ammonium Zinc Hybrid Battery. <i>ChemSusChem</i> , <b>2019</b> , 12, 3732-3736	8.3	30
49	High-Rate and High-Voltage Aqueous Rechargeable Zinc Ammonium Hybrid Battery from Selective Cation Intercalation Cathode. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6984-6989	6.1	30
48	Highly efficient Co <sub>3</sub> O <sub>4</sub> /Co@NCs bifunctional oxygen electrocatalysts for long life rechargeable Zn-air batteries. <i>Nano Energy</i> , <b>2020</b> , 77, 105200	17.1	30
47	Synthesis and performance of Cu <sub>2</sub> ZnSnS <sub>4</sub> semiconductor as photocathode for solar water splitting. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 923-932	5.7	30
46	A high-capacity dual core-shell structured MWCNTs@S@PPy nanocomposite anode for advanced aqueous rechargeable lithium batteries. <i>Nanoscale</i> , <b>2017</b> , 9, 11004-11011	7.7	29
45	A Facile, One-Step Synthesis of Silicon/Silicon Carbide/Carbon Nanotube Nanocomposite as a Cycling-Stable Anode for Lithium Ion Batteries. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	28
44	Methods to Improve Lithium Metal Anode for Li-S Batteries. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 827	5	27
43	Enhancing performance of sandwich-like cobalt sulfide and carbon for quasi-solid-state hybrid electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8981-8988	13	26
42	Prussian blue as positive electrode material for aqueous sodium-ion capacitor with excellent performance. <i>RSC Advances</i> , <b>2016</b> , 6, 109340-109345	3.7	26
41	A lithium ion battery using an aqueous electrolyte solution. <i>Scientific Reports</i> , <b>2016</b> , 6, 28421	4.9	26
40	Advances of Aluminum Based Energy Storage Systems. <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 13-20	4.9	25

39	Synergy of Sulfur/Polyacrylonitrile Composite and Gel Polymer Electrolyte Promises Heat-Resistant Lithium-Sulfur Batteries. <i>IScience</i> , <b>2019</b> , 19, 316-325	6.1	24
38	Si/C Composites as Negative Electrode for High Energy Lithium Ion Batteries. <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 21-29	4.9	23
37	Oxygen/phosphorus co-doped porous carbon from cicada slough as high-performance electrode material for supercapacitors. <i>Scientific Reports</i> , <b>2019</b> , 9, 5431	4.9	22
36	Hollow Co <sub>9</sub> S <sub>8</sub> from metal organic framework supported on rGO as electrode material for highly stable supercapacitors. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 612-615	8.1	22
35	A Fully Aqueous Hybrid Electrolyte Rechargeable Battery with High Voltage and High Energy Density. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001583	21.8	21
34	Porous CoVO Nanodisk as a High-Energy and Fast-Charging Anode for Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , <b>2021</b> , 14, 5	19.5	20
33	A Cr <sub>2</sub> O <sub>3</sub> /MWCNTs composite as a superior electrode material for supercapacitor. <i>RSC Advances</i> , <b>2017</b> , 7, 25019-25024	3.7	19
32	A multifunctional separator for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2020</b> , 334, 135486	6.7	16
31	Metal oxides in supercapacitors <b>2018</b> , 169-203		16
30	Hydrogen production by photoelectrochemically splitting solutions of formic acid. <i>ChemSusChem</i> , <b>2011</b> , 4, 1475-80	8.3	12
29	In Pursuit of a Dendrite-Free Electrolyte/Electrode Interface on Lithium Metal Anodes: A Minireview. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 10503-10512	4.1	12
28	CoS /C hierarchical hollow nanocages from a metal-organic framework as a positive electrode with enhancing performance for aqueous supercapacitors.. <i>RSC Advances</i> , <b>2019</b> , 9, 11253-11262	3.7	11
27	A Compact Gel Membrane Based on a Blend of PEO and PVDF for Dendrite-Free Lithium Metal Anodes. <i>ChemElectroChem</i> , <b>2019</b> , 6, 5413-5419	4.3	11
26	Double nucleophilic addition to iminomalonnate, leading to the synthesis of quaternary amino diesters and desymmetrization of the products.. <i>RSC Advances</i> , <b>2019</b> , 9, 23400-23407	3.7	10
25	An umpolung reaction of aminonitriles and its application to the synthesis of aminomalonnitriles. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 152-161	3.6	10
24	Covalent Bonding of Si Nanoparticles on Graphite Nanosheets as Anodes for Lithium-Ion Batteries Using Diazonium Chemistry. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	10
23	CoCO from one-step micro-emulsion method as electrode materials for Faradaic capacitors. <i>Scientific Reports</i> , <b>2017</b> , 7, 2026	4.9	9
22	Modifications of Separators for LiS Batteries with Improved Electrochemical Performance. <i>Russian Journal of Electrochemistry</i> , <b>2020</b> , 56, 365-377	1.2	8

21	Nonporous Gel Electrolytes Enable Long Cycling at High Current Density for Lithium-Metal Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 14258-14266	9.5	8
20	A facile approach to 2-alkoxyindolin-3-one and its application to the synthesis of -benzyl matemone.. <i>RSC Advances</i> , <b>2019</b> , 9, 17341-17346	3.7	7
19	Critical advances in re-engineering the cathode-electrolyte interface in alkali metal-oxygen batteries		7
18	A simple synthesis of Co <sub>3</sub> O <sub>4</sub> @CNT to boost electrochemical nitrogen fixation. <i>Electrochimica Acta</i> , <b>2021</b> , 367, 137421	6.7	6
17	A binary PMMA/PVDF blend film modified substrate enables a superior lithium metal anode for lithium batteries. <i>Materials Advances</i> , <b>2021</b> , 2, 4240-4245	3.3	6
16	Metal oxides in batteries <b>2018</b> , 127-167		6
15	An umpolung reaction of $\beta$ -aminothioesters possessing a cyclopropyl group.. <i>RSC Advances</i> , <b>2020</b> , 10, 9955-9963	3.7	5
14	Enhanced Capacitive Desalination Performance of Porous Carbon Spheres@MnO <sub>2</sub> Composite. <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 55-60	4.9	5
13	Boosting Polysulfide Catalytic Conversion and Facilitating Li Transportation by Ion-Selective COFs Composite Nanowire for Li <sub>2</sub> S Batteries.. <i>Small</i> , <b>2022</b> , e2106679	11	5
12	Two-dimensional graphitic carbon nitride/N-doped carbon with a direct Z-scheme heterojunction for photocatalytic generation of hydrogen. <i>Nanoscale Advances</i> ,	5.1	3
11	Nylon-Based Composite Gel Membrane Fabricated via Sequential Layer-by-Layer Electrospinning for Rechargeable Lithium Batteries with High Performance. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
10	CoO@NiCoO double-shelled nanocages with hierarchical hollow structure and oxygen vacancies as efficient bifunctional electrocatalysts for rechargeable Zn-air batteries. <i>Dalton Transactions</i> , <b>2021</b> , 50, 2093-2101	4.3	3
9	Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Coating on Copper Foil as Ion Redistributor Layer for Stable Lithium Metal Anode. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103112	21.8	3
8	A three-dimensional interconnected nitrogen-doped graphene-like porous carbon-modified separator for high-performance LiB batteries. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 4264-4272	5.8	2
7	A Facile Synthesis of 2-Methyl-3-oxoindoline-2-carboxylates Utilizing Aza-Brook Rearrangement as a Crucial Step. <i>Journal of Heterocyclic Chemistry</i> , <b>2019</b> , 56, 2479-2486	1.9	1
6	Preparation and facile addition reactions of iminium salts derived from amino ketene silyl acetal and amino silyl enol ether.. <i>RSC Advances</i> , <b>2020</b> , 10, 27874-27883	3.7	1
5	A selenium-doped carbon anode of high performance for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2021</b> , 25, 457-464	2.6	1
4	Polymer Electrolytes for Lithium Ion Batteries and Challenges: Part I <b>2020</b> , 187-199		0

- 3 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
- 2 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
- 1 -Alkylation/aldol reaction of  $\alpha$ -aldimino thioesters: a facile three-component coupling reaction.. *RSC Advances*, **2021**, 11, 13097-13104 3.7