He Zhu

List of Publications by Year in descending order

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186209 168321 3,132 60 28 53 citations h-index g-index papers 61 61 61 3619 citing authors all docs docs citations times ranked

#	Article	IF	Citations
1	Flexible and Porous Nanocellulose Aerogels with High Loadings of Metal–Organicâ€Framework Particles for Separations Applications. Advanced Materials, 2016, 28, 7652-7657.	11.1	369
2	Tuning the Kinetics of Zincâ€lon Insertion/Extraction in V ₂ O ₅ by In Situ Polyaniline Intercalation Enables Improved Aqueous Zincâ€lon Storage Performance. Advanced Materials, 2020, 32, e2001113.	11.1	357
3	Radially Oriented Singleâ€Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material for Lithiumâ€lon Batteries. Advanced Energy Materials, 2019, 9, 1803963.	10.2	240
4	Recent progress on MOFâ€derived carbon materials for energy storage. , 2020, 2, 176-202.		198
5	LiMnO2 cathode stabilized by interfacial orbital ordering for sustainable lithium-ion batteries. Nature Sustainability, 2021, 4, 392-401.	11.5	156
6	Alginate Hydrogel: A Shapeable and Versatile Platform for ⟨i⟩in Situ⟨li⟩ Preparation of Metal–Organic Framework–Polymer Composites. ACS Applied Materials & Interfaces, 2016, 8, 17395-17401.	4.0	127
7	Reversible Water Transportation Diode: Temperatureâ€Adaptive Smart Janus Textile for Moisture/Thermal Management. Advanced Functional Materials, 2020, 30, 1907851.	7.8	120
8	Ultralowâ€Strain Znâ€Substituted Layered Oxide Cathode with Suppressed P2–O2 Transition for Stable Sodium Ion Storage. Advanced Functional Materials, 2020, 30, 1910327.	7.8	110
9	Achieving Ultrahighâ€Rate and Highâ€Safety Li ⁺ Storage Based on Interconnected Tunnel Structure in Microâ€Size Niobium Tungsten Oxides. Advanced Materials, 2020, 32, e1905295.	11.1	95
10	Boosting fast energy storage by synergistic engineering of carbon and deficiency. Nature Communications, 2020, 11, 132.	5.8	92
11	Development of a Highly Sensitive, Broad-Range Hierarchically Structured Reduced Graphene Oxide/PolyHIPE Foam for Pressure Sensing. ACS Applied Materials & Samp; Interfaces, 2019, 11, 4318-4327.	4.0	83
12	Assembly of a Metal–Organic Framework into 3 D Hierarchical Porous Monoliths Using a Pickering High Internal Phase Emulsion Template. Chemistry - A European Journal, 2016, 22, 8751-8755.	1.7	80
13	A nanorod-like Ni-rich layered cathode with enhanced Li ⁺ diffusion pathways for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 2830-2839.	5. 2	58
14	Spontaneous Strain Buffer Enables Superior Cycling Stability in Single-Crystal Nickel-Rich NCM Cathode. Nano Letters, 2021, 21, 9997-10005.	4.5	58
15	Engineering Elastic ZIFâ€8â€8ponges for Oil–Water Separation. Advanced Materials Interfaces, 2017, 4, 1700560.	1.9	49
16	Modulating the Surface Ligand Orientation for Stabilized Anionic Redox in Liâ€Rich Oxide Cathodes. Advanced Energy Materials, 2021, 11, 2003479.	10.2	45
17	All-Solid-State Self-Healing Ionic Conductors Enabled by Ion–Dipole Interactions within Fluorinated Poly(Ionic Liquid) Copolymers. ACS Applied Materials & Dipole Interfaces, 2021, 13, 41140-41148.	4.0	42
18	In Situ Probing Multipleâ€Scale Structures of Energy Materials for Liâ€Ion Batteries. Small Methods, 2020, 4, 1900223.	4.6	39

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19	Highly Transparent, Stretchable, and Conducting Ionoelastomers Based on Poly(ionic liquid)s. ACS Applied Materials & Samp; Interfaces, 2021, 13, 31102-31110.	4.0	39
20	Stretchable, Phaseâ€Transformable Ionogels with Reversible Ionic Conductor–Insulator Transition. Advanced Functional Materials, 2020, 30, 2005079.	7.8	37
21	Synergy of Ion Doping and Spiral Array Architecture on Ti ₂ Nb ₁₀ O ₂₉ : A New Way to Achieve Highâ€Power Electrodes. Advanced Functional Materials, 2020, 30, 2002665.	7.8	37
22	Highly stretchable, recyclable, notch-insensitive, and conductive polyacrylonitrile-derived organogel. Journal of Materials Chemistry A, 2020, 8, 20346-20353.	5.2	36
23	Unveiling the solid-solution charge storage mechanism in 1T vanadium disulfide nanoarray cathodes. Journal of Materials Chemistry A, 2020, 8, 9068-9076.	5.2	36
24	Structure and Charge Regulation Strategy Enabling Superior Cyclability for Niâ€Rich Layered Cathode Materials. Small, 2021, 17, e2104282.	5.2	36
25	Hierarchically porous carbon with heteroatom doping for the application of Zn-ion capacitors. Carbon, 2021, 185, 1-8.	5.4	35
26	Fabrication of metal-organic framework-based nanofibrous separator via one-pot electrospinning strategy. Nano Research, 2021, 14, 1465-1470.	5. 8	32
27	Unblocking Oxygen Charge Compensation for Stabilized Highâ€Voltage Structure in P2â€Type Sodiumâ€lon Cathode. Advanced Science, 2022, 9, e2200498.	5.6	32
28	Collectable and Recyclable Mussel-Inspired Poly(ionic liquid)-Based Sorbents for Ultrafast Water Treatment. ACS Sustainable Chemistry and Engineering, 2017, 5, 2829-2835.	3.2	30
29	Structuring the reduced graphene oxide/polyHIPE foam for piezoresistive sensing via emulsion-templated polymerization. Composites Part A: Applied Science and Manufacturing, 2020, 134, 105898.	3.8	30
30	Interconnected Porous Monolith Prepared via UiOâ€66 Stabilized Pickering High Internal Phase Emulsion Template. Chemistry - A European Journal, 2018, 24, 16426-16431.	1.7	28
31	Reversibly Dispersible/Collectable Metalâ€Organic Frameworks Prepared by Grafting Thermally Responsive and Switchable Polymers. Macromolecular Materials and Engineering, 2015, 300, 191-197.	1.7	27
32	Improving Dielectric Constant of Polymers through Liquid Electrolyte Inclusion. Advanced Functional Materials, 2021, 31, 2007863.	7.8	25
33	Preparation of raspberry-like ZIF-8/PS composite spheres via dispersion polymerization. Dalton Transactions, 2015, 44, 16752-16757.	1.6	24
34	Colorimetric Ionic Organohydrogels Mimicking Human Skin for Mechanical Stimuli Sensing and Injury Visualization. ACS Applied Materials & Samp; Interfaces, 2021, 13, 26490-26497.	4.0	23
35	Stabilizing Layered Structure in Aqueous Electrolyte via Dynamic Water Intercalation/Deintercalation. Advanced Materials, 2022, 34, e2108541.	11.1	22
36	Transient Solidâ€State Laser Activation of Indium for Highâ€Performance Reduction of CO ₂ to Formate. Small, 2022, 18, e2201311.	5 . 2	22

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37	Cation mixing in Wadsley-Roth phase anode of lithium-ion battery improves cycling stability and fast Li+ storage. Applied Physics Reviews, 2021, 8, .	5.5	21
38	Negativeâ€Pressureâ€Induced Large Polarization in Nanosized PbTiO ₃ . Advanced Materials, 2020, 32, e2002968.	11.1	20
39	Dramatic and Reversible Waterâ€Induced Stiffening Driven by Phase Separation within Polymer Gels. Advanced Functional Materials, 2022, 32, 2109850.	7.8	20
40	Modulating precursor nanosheets for stabilized Ni-rich cathode material for Li-ion batteries. Rare Metals, 2022, 41, 2552-2559.	3.6	19
41	A versatile and facile surface modification route based on polydopamine for the growth of MOF films on different substrates. Canadian Journal of Chemical Engineering, 2015, 93, 63-67.	0.9	18
42	Insight into the capacity decay mechanism of cycled LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathodes via in situ x-ray diffraction. Nanotechnology, 2021, 32, 295701.	1.3	17
43	Ten Thousand-Cycle Ultrafast Energy Storage of Wadsley–Roth Phase Fe–Nb Oxides with a Desolvation Promoting Interfacial Layer. Nano Letters, 2021, 21, 9675-9683.	4.5	17
44	Acidâ€inâ€Clay Electrolyte for Wideâ€Temperatureâ€Range and Longâ€Cycle Proton Batteries. Advanced Materials, 2022, 34, e2202063.	11.1	16
45	Lithiumâ€lon Batteries: Radially Oriented Singleâ€Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material for Lithiumâ€lon Batteries (Adv. Energy Mater. 15/2019). Advanced Energy Materials, 2019, 9, 1970051.	10.2	14
46	Hierarchically Porous Monolith with High MOF Accessibility and Strengthened Mechanical Properties using Waterâ€inâ€Oil High Internal Phase Emulsion Template. Advanced Materials Interfaces, 2021, 8, 2100620.	1.9	12
47	Solvothermal synthesis of covalent triazine framework and its application in photodegradation of organic dyes. Materials Today Chemistry, 2021, 20, 100475.	1.7	10
48	Direct transformation of ZIF-8 into hollow porous carbons and hollow carbon composites. Nano Research, 2022, 15, 5769-5774.	5.8	10
49	Metal Oxy-Hydroxides with a Hierarchical and Hollow Structure for Highly Efficient Solar-Thermal Water Evaporation. ACS Applied Materials & Samp; Interfaces, 2021, 13, 27726-27733.	4.0	9
50	Stretchable Hydrogels with Low Hysteresis and High Fracture Toughness for Flexible Electronics. Macromolecular Rapid Communications, 2022, 43, e2100716.	2.0	9
51	Oxygen vacancy distributions and electron localization in a CeO ₂ (100) nanocube. Inorganic Chemistry Frontiers, 2022, 9, 275-283.	3.0	8
52	MOFsome via Transient Pickering Emulsion Template. Advanced Materials Interfaces, 2016, 3, 1600294.	1.9	7
53	Damage-resistant and healable polyacrylonitrile-derived stretchable materials with exceptional fracture toughness and fatigue threshold. Journal of Materials Chemistry A, 2021, 9, 23451-23458.	5.2	6
54	Fluorinated Poly(ionic liquid) Copolymers as Transparent, Strong, and Versatile Adhesive Materials. ACS Applied Polymer Materials, 2022, 4, 3217-3224.	2.0	6

#	ARTICLE	IF	CITATION
55	Structuring Metal–Organic Framework Materials into Hierarchically Porous Composites through Oneâ€Pot Fabrication Strategy. Chemistry - A European Journal, 2020, 26, 3358-3363.	1.7	5
56	Fabrication of Metal–Organic Framework/Polymer Composites via a One-Pot Solvent Crystal Template Strategy. ACS Applied Polymer Materials, 2021, 3, 2038-2044.	2.0	5
57	Bioinspired Semicrystalline Dynamic Ionogels with Adaptive Mechanics and Tactile Sensing. ACS Applied Materials & Early; Interfaces, 2022, 14, 20132-20138.	4.0	5
58	Joule heating of ionic conductors using zero-phase frequency alternating current to suppress electrochemical reactions. Engineering, 2022, , .	3.2	4
59	Rapid collection and re-dispersion of MOF particles by a simple and versatile method using a thermo-responsive polymer. RSC Advances, 2016, 6, 63398-63402.	1.7	3
60	Flexible nanoporous antireflection coatings prepared from controllable latex aggregation and their efficient color deepening function. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127165.	2.3	2