

# Peichao Zou

## List of Publications by Year in descending order

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44  
papers

3,548  
citations

257101

24  
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315357

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44  
docs citations

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times ranked

4714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exceptional performance of hierarchical Ni <sup>2+</sup> /Fe oxyhydroxide@NiFe alloy nanowire array electrocatalysts for large current density water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 86-95.	15.6	698
2	A reduced graphene oxide/mixed-valence manganese oxide composite electrode for tailorable and surface mountable supercapacitors with high capacitance and super-long life. <i>Energy and Environmental Science</i> , 2017, 10, 941-949.	15.6	253
3	Directing lateral growth of lithium dendrites in micro-compartmented anode arrays for safe lithium metal batteries. <i>Nature Communications</i> , 2018, 9, 464.	5.8	250
4	An ultrafast, high capacity and superior longevity Ni/Zn battery constructed on nickel nanowire array film. <i>Nano Energy</i> , 2016, 30, 900-908.	8.2	188
5	Altering Ligand Fields in Single-Atom Sites through Second-Shell Anion Modulation Boosts the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2022, 144, 2197-2207.	6.6	183
6	Tip-Enhanced Electric Field: A New Mechanism Promoting Mass Transfer in Oxygen Evolution Reactions. <i>Advanced Materials</i> , 2021, 33, e2007377.	11.1	179
7	An Ultralong, Highly Oriented Nickel Nanowire Array Electrode Scaffold for High-Performance Compressible Pseudocapacitors. <i>Advanced Materials</i> , 2016, 28, 4105-4110.	11.1	171
8	Polymorph Evolution Mechanisms and Regulation Strategies of Lithium Metal Anode under Multiphysical Fields. <i>Chemical Reviews</i> , 2021, 121, 5986-6056.	23.0	165
9	Laser-processed graphene based micro-supercapacitors for ultrathin, rollable, compact and designable energy storage components. <i>Nano Energy</i> , 2016, 26, 276-285.	8.2	135
10	Ultrahigh-Rate and Long-Life Zinc Metal Anodes Enabled by Self-Accelerated Cation Migration. <i>Advanced Energy Materials</i> , 2021, 11, 2100982.	10.2	131
11	Shape-Tailorable Graphene-Based Ultra-High-Rate Supercapacitor for Wearable Electronics. <i>ACS Nano</i> , 2015, 9, 5636-5645.	7.3	127
12	NiMo Solid Solution Nanowire Array Electrodes for Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019, 29, 1903747.	7.8	108
13	A conductive-dielectric gradient framework for stable lithium metal anode. <i>Energy Storage Materials</i> , 2020, 24, 700-706.	9.5	88
14	Hierarchical nickel nanowire@NiCo <sub>2</sub> S <sub>4</sub> nanowhisiker composite arrays with a test-tube-brush-like structure for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15284-15293.	5.2	77
15	Activating Edge-Mo of 2H-MoS <sub>2</sub> via Coordination with Pyridinic N-C for pH-Universal Hydrogen Evolution Electrocatalysis. <i>ACS Catalysis</i> , 2021, 11, 4486-4497.	5.5	74
16	Magnetic-field-induced rapid synthesis of defect-enriched Ni-Co nanowire membrane as highly efficient hydrogen evolution electrocatalyst. <i>Nano Energy</i> , 2018, 51, 349-357.	8.2	72
17	Proton selective adsorption on Pt-Ni nano-thorn array electrodes for superior hydrogen evolution activity. <i>Energy and Environmental Science</i> , 2021, 14, 1594-1601.	15.6	71
18	Resolving atomic-scale phase transformation and oxygen loss mechanism in ultrahigh-nickel layered cathodes for cobalt-free lithium-ion batteries. <i>Matter</i> , 2021, 4, 2013-2026.	5.0	69

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19	Design Principle, Optimization Strategies, and Future Perspectives of Anode-Free Configurations for High-Energy Rechargeable Metal Batteries. <i>Electrochemical Energy Reviews</i> , 2021, 4, 601-631.	13.1	69
20	Ni@Li <sub>2</sub> O co-axial nanowire based reticular anode: Tuning electric field distribution for homogeneous lithium deposition. <i>Energy Storage Materials</i> , 2019, 18, 155-164.	9.5	59
21	Holey nickel nanotube reticular network scaffold for high-performance flexible rechargeable Zn/MnO <sub>2</sub> batteries. <i>Chemical Engineering Journal</i> , 2019, 370, 330-336.	6.6	56
22	One-Pot Synthesis of B/P-Codoped Co-Mo Dual-Nanowire Electrochemical Catalysts for Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 20024-20033.	4.0	52
23	Highly Selective Oxygen Reduction to Hydrogen Peroxide on a Carbon-Supported Single-Atom Pd Electrochemical Catalyst. <i>ACS Catalysis</i> , 2022, 12, 4156-4164.	5.5	44
24	A Periodic "Self-Correction" Scheme for Synchronizing Lithium Plating/Stripping at Ultrahigh Cycling Capacity. <i>Advanced Functional Materials</i> , 2020, 30, 1910532.	7.8	39
25	MoO <sub>3</sub> @Ni nanowire array hierarchical anode for high capacity and superior longevity all-metal-oxide asymmetric supercapacitors. <i>RSC Advances</i> , 2016, 6, 110112-110119.	1.7	23
26	Horizontal Stress Release for Protuberance-Free Li Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 2002522.	7.8	22
27	In situ synthesis of gold nanostars within liposomes for controlled drug release and photoacoustic imaging. <i>Science China Materials</i> , 2016, 59, 892-900.	3.5	21
28	Structural Insights into the Lithium Ion Storage Behaviors of Niobium Tungsten Double Oxides. <i>Chemistry of Materials</i> , 2022, 34, 388-398.	3.2	21
29	Flexible copper wires through galvanic replacement of zinc paste: a highly cost-effective technology for wiring flexible printed circuits. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8329-8335.	2.7	18
30	An asymmetric supercapacitor based on a NiO/Co <sub>3</sub> O <sub>4</sub> @NiCo cathode and an activated carbon anode. <i>New Carbon Materials</i> , 2020, 35, 112-120.	2.9	18
31	Hydrophobic Molecule Monolayer Brush-Tethered Zinc Anodes for Aqueous Zinc Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60092-60098.	4.0	18
32	Vapor-Phase Polymerized Poly(3,4-Ethylenedioxythiophene) on a Nickel Nanowire Array Film: Aqueous Symmetrical Pseudocapacitors with Superior Performance. <i>PLoS ONE</i> , 2016, 11, e0166529.	1.1	14
33	Toward real-time monitoring of lithium metal growth and dendrite formation surveillance for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7090-7099.	5.2	11
34	Laser processed micro-supercapacitors based on carbon nanotubes/manganese dioxide nanosheets composite with excellent electrochemical performance and aesthetic property. <i>Chinese Chemical Letters</i> , 2018, 29, 592-595.	4.8	7
35	Battery-on-Separator: A platform technology for arbitrary-shaped lithium ion batteries for high energy density storage. <i>Journal of Power Sources</i> , 2021, 490, 229527.	4.0	6
36	Interface metallization enabled an ultra-stable Fe <sub>2</sub> O <sub>3</sub> hierarchical anode for pseudocapacitors. <i>RSC Advances</i> , 2020, 10, 8636-8644.	1.7	4

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37	3D atomic imaging of low-coordinated active sites in solid-state dealloyed hierarchical nanoporous gold. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25513-25521.	5.2	3
38	Electrospinning Sn@C nanofibers for high-performance flexible lithium ion battery anodes. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 300, 042021.	0.2	2
39	Ultra-high power graphene based supercapacitor. , 2015, , .		1
40	NiCo oxyfluoride non-woven cloth with ultra-high area capacitance for wearable supercapacitors. , 2018, , .		1
41	Stretchable copper wires based on reduction of active metallic nanoparticles and electroplating. , 2015, , .		0
42	Scalable synthesis of mono-dispersed nickel nanoparticles and their application as thermal conductive fillers. , 2017, , .		0
43	Catalysis: NiMo Solid Solution Nanowire Array Electrodes for Highly Efficient Hydrogen Evolution Reaction ( <i>Adv. Funct. Mater.</i> 44/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970308.	7.8	0
44	Nickel-Cobalt Sulfide Nonwoven Cloth with UltraHigh Areal Capacitance for Flexible Supercapacitors. , 2019, , .		0