

Cheng Yang

List of Publications by Year in descending order

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94
papers

5,749
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81839

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citing authors

#	ARTICLE	IF	CITATIONS
1	NiMoFe nanoparticles@MoO ₂ nano-pillar arrays as bifunctional electrodes for ultra-low-voltage overall water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3760-3770.	5.2	22
2	Direct solar to hydrogen conversion enabled by silicon photocathodes with carrier selective passivated contacts. <i>Sustainable Energy and Fuels</i> , 2022, 6, 349-360.	2.5	3
3	A Versatile Cation Additive Enabled Highly Reversible Zinc Metal Anode. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	95
4	A method for quantitatively separating the piezoelectric component from the as-received α -Piezoelectric signal. <i>Nature Communications</i> , 2022, 13, 1391.	5.8	68
5	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
6	A Wadsley-Roth crystallographic shear phase SrNb ₆ O ₁₆ anode for fast Li-ion storage. <i>Chemical Communications</i> , 2022, 58, 8626-8629.	2.2	1
7	Grafted MXene/polymer electrolyte for high performance solid zinc batteries with enhanced shelf life at low/high temperatures. <i>Energy and Environmental Science</i> , 2021, 14, 3492-3501.	15.6	152
8	Laminar Metal Foam: A Soft and Highly Thermally Conductive Thermal Interface Material with a Reliable Joint for Semiconductor Packaging. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15791-15801.	4.0	7
9	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
10	Polymorph Evolution Mechanisms and Regulation Strategies of Lithium Metal Anode under Multiphysical Fields. <i>Chemical Reviews</i> , 2021, 121, 5986-6056.	23.0	165
11	Exploration of the form factors of turbulence kinetic energy transfer for shear exfoliation of graphene. <i>Nanotechnology</i> , 2021, 32, 265601.	1.3	1
12	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
13	Cations Coordination-Regulated Reversibility Enhancement for Aqueous Zn-Ion Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2105736.	7.8	59
14	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
15	Tip-Enhanced Electric Field: A New Mechanism Promoting Mass Transfer in Oxygen Evolution Reactions. <i>Advanced Materials</i> , 2021, 33, e2007377.	11.1	179
16	A conductive-dielectric gradient framework for stable lithium metal anode. <i>Energy Storage Materials</i> , 2020, 24, 700-706.	9.5	88
17	Exceptional performance of hierarchical Ni-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
18	Interfacial electrochemical investigation of 3D space-confined MnFe ₂ O ₄ for high-performance ionic liquid-based supercapacitors. <i>Electrochimica Acta</i> , 2020, 331, 135386.	2.6	22

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19	3D interpenetrating assembly of partially oxidized MXene confined Mn ²⁺ /Fe bimetallic oxide for superior energy storage in ionic liquid. <i>Electrochimica Acta</i> , 2020, 334, 135546.	2.6	76
20	Nickel Metallized Nanofibers Based MnO ₂ /PPy as Electrodes for All-in-One Ultrathin Flexible Asymmetric Supercapacitors. , 2020, , .		0
21	MnO ₂ @Nickel Nanocone Arrays with High Areal Capacitance for Flexible Zincion Supercapacitor. , 2020, , .		1
22	Hierarchical Metallized Polyimide Fiber for Flexible Supercapacitors with Ultra-High Capacity. , 2020, , .		0
23	Laser-Induced Nitrogen-doped Graphene for High-Performance Flexible Supercapacitors. , 2020, , .		1
24	Interface metallization enabled an ultra-stable Fe ₂ O ₃ hierarchical anode for pseudocapacitors. <i>RSC Advances</i> , 2020, 10, 8636-8644.	1.7	4
25	An asymmetric supercapacitor based on a NiO/Co ₃ O ₄ @NiCo cathode and an activated carbon anode. <i>New Carbon Materials</i> , 2020, 35, 112-120.	2.9	18
26	A Novel Approach to Fabricate Membrane Electrode Assembly by Directly Coating the Nafion Ionomer on Catalyst Layers for Proton-Exchange Membrane Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9803-9812.	3.2	37
27	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
28	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
29	Pseudocapacitive quantum dots confined in sacrificial g-C ₃ N ₄ derived carbon nanosheets for high performance ionic liquid-based supercapacitors. <i>Materials Letters</i> , 2020, 266, 127498.	1.3	7
30	Ultrahigh-Working-Frequency Embedded Supercapacitors with 1T Phase MoSe ₂ Nanosheets for System-in-Package Application. <i>Advanced Functional Materials</i> , 2019, 29, 1807116.	7.8	47
31	NiMo Solid Solution Nanowire Array Electrodes for Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019, 29, 1903747.	7.8	108
32	Boosting ion dynamics through superwetable leaf-like film based on porous g-C ₃ N ₄ nanosheets for ionogel supercapacitors. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	40
33	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
34	High-performance coaxial wire-shaped supercapacitors using ionogel electrolyte toward sustainable energy system. <i>Journal of Materials Research</i> , 2019, 34, 3030-3039.	1.2	68
35	Bioinspired pomegranate-like microflowers confining core-shell binary Ni _x S _y nanobeads for efficient supercapacitors exhibiting a durable lifespan exceeding 100,000 cycles. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3432-3442.	5.2	19
36	High-throughput extracellular pH monitoring and antibiotics screening by polymeric fluorescent sensor with LCST property. <i>Methods</i> , 2019, 168, 51-61.	1.9	4

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37	Embeddable Supercapacitors: Ultrahigh-Working-Frequency Embedded Supercapacitors with 1T Phase MoSe ₂ Nanosheets for System Package Application (Adv. Funct. Mater. 9(2019)). Advanced Functional Materials, 2019, 29, 1970058.	7.8	10
38	Holey nickel nanotube reticular network scaffold for high-performance flexible rechargeable Zn/MnO ₂ batteries. Chemical Engineering Journal, 2019, 370, 330-336.	6.6	56
39	Monolithic Integration of All-in-One Supercapacitor for 3D Electronics. Advanced Energy Materials, 2019, 9, 1900037.	10.2	51
40	MnO ₂ @Nickel Nanocone Arrays Coated Paper Electrode for Flexible Supercapacitors. , 2019, , .		0
41	Nickel-Cobalt Sulfide Nonwoven Cloth with UltraHigh Areal Capacitance for Flexible Supercapacitors. , 2019, , .		0
42	Scalable Metalized Polyacrylonitrile Fiber as the Current Collector for High-Performance Flexible Supercapacitors on Flexible Circuits. , 2019, , .		0
43	Inhibition of bromate formation by reduced graphene oxide supported cerium dioxide during ozonation of bromide-containing water. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	3.3	11
44	Hierarchical supercapacitor electrodes based on metallized glass fiber for ultrahigh areal capacitance. Energy Storage Materials, 2019, 20, 315-323.	9.5	18
45	Ni@Li ₂ O co-axial nanowire based reticular anode: Tuning electric field distribution for homogeneous lithium deposition. Energy Storage Materials, 2019, 18, 155-164.	9.5	59
46	A robust hierarchical microcapsule for efficient supercapacitors exhibiting an ultrahigh current density of 300 A g ⁻¹ . Journal of Materials Chemistry A, 2018, 6, 5724-5732.	5.2	15
47	Laser processed micro-supercapacitors based on carbon nanotubes/manganese dioxide nanosheets composite with excellent electrochemical performance and aesthetic property. Chinese Chemical Letters, 2018, 29, 592-595.	4.8	7
48	Directing lateral growth of lithium dendrites in micro-compartmented anode arrays for safe lithium metal batteries. Nature Communications, 2018, 9, 464.	5.8	250
49	High performance, environmentally benign and integratable Zn//MnO ₂ microbatteries. Journal of Materials Chemistry A, 2018, 6, 3933-3940.	5.2	53
50	Fabrication and Engineering of Nanostructured Supercapacitor Electrodes Using Electromagnetic Field-Based Techniques. Advanced Materials Technologies, 2018, 3, 1700168.	3.0	12
51	Magnetic-field-induced rapid synthesis of defect-enriched Ni-Co nanowire membrane as highly efficient hydrogen evolution electrocatalyst. Nano Energy, 2018, 51, 349-357.	8.2	72
52	Hierarchical nickel nanowire@NiCo ₂ S ₄ nanowhisiker composite arrays with a test-tube-brush-like structure for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 15284-15293.	5.2	77
53	Lavender-like cobalt hydroxide nanoflakes deposited on nickel nanowire arrays for high-performance supercapacitors. RSC Advances, 2018, 8, 17263-17271.	1.7	10
54	A hierarchical nickel-carbon structure templated by metal-organic frameworks for efficient overall water splitting. Energy and Environmental Science, 2018, 11, 2363-2371.	15.6	240

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55	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
56	Integrated Sustainable Wind Power Harvesting and Ultrahigh Energy Density Wire- μ -Shaped Supercapacitors Based on Vertically Oriented Nanosheet-Array-Coated Carbon Fibers. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700044.	2.7	11
57	A macrophage-activating, injectable hydrogel to sequester endogenous growth factors for in situ angiogenesis. <i>Biomaterials</i> , 2017, 134, 128-142.	5.7	72
58	All-printed paper based surface mountable supercapacitors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 676-681.	1.8	9
59	Low-Temperature Fusible Silver Micro/Nanodendrites-Based Electrically Conductive Composites for Next-Generation Printed Fuse-Links. <i>ACS Nano</i> , 2017, 11, 7710-7718.	7.3	13
60	All-printed paper based supercapacitors. , 2017, , .		0
61	Scalable synthesis of mono-dispersed nickel nanoparticles and their application as thermal conductive fillers. , 2017, , .		0
62	An Ultralong, Highly Oriented Nickel- μ -Nanowire- μ -Array Electrode Scaffold for High-Performance Compressible Pseudocapacitors. <i>Advanced Materials</i> , 2016, 28, 4105-4110.	11.1	171
63	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
64	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
65	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
66	MoO ₃ @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
67	Ozone/graphene oxide catalytic oxidation: a novel method to degrade emerging organic contaminant N, N-diethyl-m-toluamide (DEET). <i>Scientific Reports</i> , 2016, 6, 31405.	1.6	23
68	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
69	Conformal Pad-Printing Electrically Conductive Composites onto Thermoplastic Hemispheres: Toward Sustainable Fabrication of 3-Cents Volumetric Electrically Small Antennas. <i>PLoS ONE</i> , 2015, 10, e0136939.	1.1	12
70	Silver dendrite-based nanocomposites for current cutting-off fuse. , 2015, , .		0
71	Eco-friendly and cost-effective superabsorbent sodium polyacrylate composites for environmental remediation. <i>Journal of Materials Science</i> , 2015, 50, 5799-5808.	1.7	34
72	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li ₄ Ti ₅ O ₁₂ Spheres of Densely Packed Nanocrystallites. <i>Chemistry of Materials</i> , 2015, 27, 5647-5656.	3.2	142

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73	Shape-Tailorable Graphene-Based Ultra-High-Rate Supercapacitor for Wearable Electronics. ACS Nano, 2015, 9, 5636-5645.	7.3	127
74	Flexible copper wires through galvanic replacement of zinc paste: a highly cost-effective technology for wiring flexible printed circuits. Journal of Materials Chemistry C, 2015, 3, 8329-8335.	2.7	18
75	Fractal dendrite-based electrically conductive composites for laser-scribed flexible circuits. Nature Communications, 2015, 6, 8150.	5.8	73
76	Stretchable copper wires based on reduction of active metallic nanoparticles and electroplating. , 2015, , .		0
77	Future paper based printed circuit boards for green electronics: fabrication and life cycle assessment. Energy and Environmental Science, 2014, 7, 3674-3682.	15.6	136
78	Scalable fabrication of MnO ₂ nanostructure deposited on free-standing Ni nanocone arrays for ultrathin, flexible, high-performance micro-supercapacitor. Energy and Environmental Science, 2014, 7, 2652-2659.	15.6	247
79	Fluorescence quenching between unbonded graphene quantum dots and gold nanoparticles upon simple mixing. RSC Advances, 2014, 4, 35673-35677.	1.7	31
80	Towards Practical Application of Paper based Printed Circuits: Capillarity Effectively Enhances Conductivity of the Thermoplastic Electrically Conductive Adhesives. Scientific Reports, 2014, 4, 6275.	1.6	42
81	Co-electro-deposition of the MnO ₂ /PEDOT:PSS nanostructured composite for high areal mass, flexible asymmetric supercapacitor devices. Journal of Materials Chemistry A, 2013, 1, 12432.	5.2	163
82	Printed electrically conductive composites: conductive filler designs and surface engineering. Journal of Materials Chemistry C, 2013, 1, 4052.	2.7	120
83	Scalable synthesis of the mono-dispersed silver micro-dendrites and their applications in the ultralow cost printed electrically conductive adhesives. , 2013, , .		4
84	Improvement of the thermal conductivity by surface iodination. , 2013, , .		0
85	Investigation of a Biocompatible Polyurethane-Based Isotropically Conductive Adhesive for UHF RFID Tag Antennas. Journal of Electronic Materials, 2011, 40, 78-84.	1.0	14
86	Rheological study on high-density polyethylene/organoclay composites. Polymer Engineering and Science, 2011, 51, 133-142.	1.5	13
87	Water-Based Isotropically Conductive Adhesives: Towards Green and Low-Cost Flexible Electronics. Advanced Functional Materials, 2011, 21, 4582-4588.	7.8	88
88	Silver Nanowires: From Scalable Synthesis to Recyclable Foldable Electronics. Advanced Materials, 2011, 23, 3052-3056.	11.1	297
89	Silver Surface Iodination for Enhancing the Conductivity of Conductive Composites. Advanced Functional Materials, 2010, 20, 2580-2587.	7.8	65
90	Silver Surface Iodination for Enhancing the Conductivity of Conductive Composites. Advanced Functional Materials, 2010, 20, n/a-n/a.	7.8	2

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91	A facile chemical approach for preparing a SERS active silver substrate. Physical Chemistry Chemical Physics, 2010, 12, 14459.	1.3	26
92	Flexible thermoplastic conductive adhesive with high reliability. , 2009, , .		0
93	UV-activated surface modification of photo-cleavage polymer for contact printing applications. , 2008, , .		1
94	Using novel materials to enhance the efficiency of conductive polymer. , 2008, , .		11