Cheng Yang

List of Publications by Year in descending order

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94 papers	5,749 citations	81839 39 h-index	76872 74 g-index
97 all docs	97 docs citations	97 times ranked	8113 citing authors

#	Article	IF	Citations
1	Exceptional performance of hierarchical Niâ€“Fe oxyhydroxide@NiFe alloy nanowire array electrocatalysts for large current density water splitting. Energy and Environmental Science, 2020, 13, 86-95.	15.6	698
2	Silver Nanowires: From Scalable Synthesis to Recyclable Foldable Electronics. Advanced Materials, 2011, 23, 3052-3056.	11.1	297
3	A reduced graphene oxide/mixed-valence manganese oxide composite electrode for tailorable and surface mountable supercapacitors with high capacitance and super-long life. Energy and Environmental Science, 2017, 10, 941-949.	15.6	253
4	Directing lateral growth of lithium dendrites in micro-compartmented anode arrays for safe lithium metal batteries. Nature Communications, 2018, 9, 464.	5.8	250
5	Scalable fabrication of MnO₂ 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
6	A hierarchical nickelâ€“carbon structure templated by metalâ€“organic frameworks for efficient overall water splitting. Energy and Environmental Science, 2018, 11, 2363-2371.	15.6	240
7	An ultrafast, high capacity and superior longevity Ni/Zn battery constructed on nickel nanowire array film. Nano Energy, 2016, 30, 900-908.	8.2	188
8	Tipâ€Enhanced Electric Field: A New Mechanism Promoting Mass Transfer in Oxygen Evolution Reactions. Advanced Materials, 2021, 33, e2007377.	11.1	179
9	An Ultralong, Highly Oriented Nickelâ€Nanowireâ€Array Electrode Scaffold for Highâ€Performance Compressible Pseudocapacitors. Advanced Materials, 2016, 28, 4105-4110.	11.1	171
10	Polymorph Evolution Mechanisms and Regulation Strategies of Lithium Metal Anode under Multiphysical Fields. Chemical Reviews, 2021, 121, 5986-6056.	23.0	165
11	Co-electro-deposition of the MnO2â€“PEDOT:PSS nanostructured composite for high areal mass, flexible asymmetric supercapacitor devices. Journal of Materials Chemistry A, 2013, 1, 12432.	5.2	163
12	Grafted MXene/polymer electrolyte for high performance solid zinc batteries with enhanced shelf life at low/high temperatures. Energy and Environmental Science, 2021, 14, 3492-3501.	15.6	152
13	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li₄Ti₅O₁₂ Spheres of Densely Packed Nanocrystallites. Chemistry of Materials, 2015, 27, 5647-5656.	3.2	142
14	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
15	Laser-processed graphene based micro-supercapacitors for ultrathin, rollable, compact and designable energy storage components. Nano Energy, 2016, 26, 276-285.	8.2	135
16	Shape-Tailorable Graphene-Based Ultra-High-Rate Supercapacitor for Wearable Electronics. ACS Nano, 2015, 9, 5636-5645.	7.3	127
17	Printed electrically conductive composites: conductive filler designs and surface engineering. Journal of Materials Chemistry C, 2013, 1, 4052.	2.7	120
18	NiMo Solid Solution Nanowire Array Electrodes for Highly Efficient Hydrogen Evolution Reaction. Advanced Functional Materials, 2019, 29, 1903747.	7.8	108

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19	A Versatile Cation Additive Enabled Highly Reversible Zinc Metal Anode. Advanced Energy Materials, 2022, 12, .	10.2	95
20	Waterâ€Based Isotropically Conductive Adhesives: Towards Green and Lowâ€Cost Flexible Electronics. Advanced Functional Materials, 2011, 21, 4582-4588.	7.8	88
21	A conductive-dielectric gradient framework for stable lithium metal anode. Energy Storage Materials, 2020, 24, 700-706.	9.5	88
22	Hierarchical nickel nanowire@NiCo₂S₄ nanowhisker 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
23	3D interpenetrating assembly of partially oxidized MXene confined Mnâ€“Fe bimetallic oxide for superior energy storage in ionic liquid. Electrochimica Acta, 2020, 334, 135546.	2.6	76
24	Fractal dendrite-based electrically conductive composites for laser-scribed flexible circuits. Nature Communications, 2015, 6, 8150.	5.8	73
25	A macrophage-activating, injectable hydrogel to sequester endogenous growth factors for in situ angiogenesis. Biomaterials, 2017, 134, 128-142.	5.7	72
26	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
27	Proton selective adsorption on Ptâ€“Ni nano-thorn array electrodes for superior hydrogen evolution activity. Energy and Environmental Science, 2021, 14, 1594-1601.	15.6	71
28	Design Principle, Optimization Strategies, and Future Perspectives of Anode-Free Configurations for High-Energy Rechargeable Metal Batteries. Electrochemical Energy Reviews, 2021, 4, 601-631.	13.1	69
29	High-performance coaxial wire-shaped supercapacitors using ionogel electrolyte toward sustainable energy system. Journal of Materials Research, 2019, 34, 3030-3039.	1.2	68
30	A method for quantitatively separating the piezoelectric component from the as-received â€œPiezoelectricâ€•signal. Nature Communications, 2022, 13, 1391.	5.8	68
31	Silver Surface Iodination for Enhancing the Conductivity of Conductive Composites. Advanced Functional Materials, 2010, 20, 2580-2587.	7.8	65
32	Ni@Li2O co-axial nanowire based reticular anode: Tuning electric field distribution for homogeneous lithium deposition. Energy Storage Materials, 2019, 18, 155-164.	9.5	59
33	Cations Coordinationâ€Regulated Reversibility Enhancement for Aqueous Znâ€Ion Battery. Advanced Functional Materials, 2021, 31, 2105736.	7.8	59
34	Holey nickel nanotube reticular network scaffold for high-performance flexible rechargeable Zn/MnO2 batteries. Chemical Engineering Journal, 2019, 370, 330-336.	6.6	56
35	High performance, environmentally benign and integratable Zn//MnO₂microbatteries. Journal of Materials Chemistry A, 2018, 6, 3933-3940.	5.2	53
36	Monolithic Integration of Allâ€Inâ€One Supercapacitor for 3D Electronics. Advanced Energy Materials, 2019, 9, 1900037.	10.2	51

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37	Ultrahighâ€Workingâ€Frequency Embedded Supercapacitors with 1T Phase MoSe₂ Nanosheets for Systemâ€inâ€Package Application. Advanced Functional Materials, 2019, 29, 1807116.	7.8	47
38	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
39	Boosting ion dynamics through superwettable leaf-like film based on porous g-C3N4 nanosheets for ionogel supercapacitors. NPG Asia Materials, 2019, 11, .	3.8	40
40	A Periodic â€œSelfâ€Correctionâ€•Scheme for Synchronizing Lithium Plating/Stripping at Ultrahigh Cycling Capacity. Advanced Functional Materials, 2020, 30, 1910532.	7.8	39
41	A Novel Approach to Fabricate Membrane Electrode Assembly by Directly Coating the Nafion Ionomer on Catalyst Layers for Proton-Exchange Membrane Fuel Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 9803-9812.	3.2	37
42	Eco-friendly and cost-effective superabsorbent sodium polyacrylate composites for environmental remediation. Journal of Materials Science, 2015, 50, 5799-5808.	1.7	34
43	Fluorescence quenching between unbonded graphene quantum dots and gold nanoparticles upon simple mixing. RSC Advances, 2014, 4, 35673-35677.	1.7	31
44	A facile chemical approach for preparing a SERS active silver substrate. Physical Chemistry Chemical Physics, 2010, 12, 14459.	1.3	26
45	MoO₃@Ni nanowire array hierarchical anode for high capacity and superior longevity all-metal-oxide asymmetric supercapacitors. RSC Advances, 2016, 6, 110112-110119.	1.7	23
46	Ozone/graphene oxide catalytic oxidation: a novel method to degrade emerging organic contaminant N, N-diethyl-m-toluamide (DEET). Scientific Reports, 2016, 6, 31405.	1.6	23
47	Interfacial electrochemical investigation of 3D space-confined MnFe2O4 for high-performance ionic liquid-based supercapacitors. Electrochimica Acta, 2020, 331, 135386.	2.6	22
48	NiMoFe nanoparticles@MoO₂ nano-pillar arrays as bifunctional electrodes for ultra-low-voltage overall water splitting. Journal of Materials Chemistry A, 2022, 10, 3760-3770.	5.2	22
49	In situ synthesis of gold nanostars within liposomes for controlled drug release and photoacoustic imaging. Science China Materials, 2016, 59, 892-900.	3.5	21
50	Structural Insights into the Lithium Ion Storage Behaviors of Niobium Tungsten Double Oxides. Chemistry of Materials, 2022, 34, 388-398.	3.2	21
51	Bioinspired pomegranate-like microflowers confining core-shell binary Ni_xS_y nanobeads for efficient supercapacitors exhibiting a durable lifespan exceeding 100â€‰000 cycles. Journal of Materials Chemistry A, 2019, 7, 3432-3442.	5.2	19
52	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
53	Hierarchical supercapacitor electrodes based on metallized glass fiber for ultrahigh areal capacitance. Energy Storage Materials, 2019, 20, 315-323.	9.5	18
54	An asymmetric supercapacitor based on a NiO/Co3O4@NiCo cathode and an activated carbon anode. New Carbon Materials, 2020, 35, 112-120.	2.9	18

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55	A robust hierarchical microcapsule for efficient supercapacitors exhibiting an ultrahigh current density of 300 A g^{â^'1}. Journal of Materials Chemistry A, 2018, 6, 5724-5732.	5.2	15
56	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
57	Vapor-Phase Polymerized Poly(3,4-Ethylenedioxythiophene) on a Nickel Nanowire Array Film: Aqueous Symmetrical Pseudocapacitors with Superior Performance. PLoS ONE, 2016, 11, e0166529.	1.1	14
58	Rheological study on highâ€density polyethylene/organoclay composites. Polymer Engineering and Science, 2011, 51, 133-142.	1.5	13
59	Low-Temperature Fusible Silver Micro/Nanodendrites-Based Electrically Conductive Composites for Next-Generation Printed Fuse-Links. ACS Nano, 2017, 11, 7710-7718.	7.3	13
60	Conformal Pad-Printing Electrically Conductive Composites onto Thermoplastic Hemispheres: Toward Sustainable Fabrication of 3-Cents Volumetric Electrically Small Antennas. PLoS ONE, 2015, 10, e0136939.	1.1	12
61	Fabrication and Engineering of Nanostructured Supercapacitor Electrodes Using Electromagnetic Fieldâ€Based Techniques. Advanced Materials Technologies, 2018, 3, 1700168.	3.0	12
62	Using novel materials to enhance the efficiency of conductive polymer. , 2008, , .		11
63	Integrated Sustainable Wind Power Harvesting and Ultrahigh Energy Density Wireâ€Shaped Supercapacitors Based on Vertically Oriented Nanosheetâ€Arrayâ€Coated Carbon Fibers. Advanced Sustainable Systems, 2017, 1, 1700044.	2.7	11
64	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
65	Toward real-time monitoring of lithium metal growth and dendrite formation surveillance for safe lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 7090-7099.	5.2	11
66	Lavender-like cobalt hydroxide nanoflakes deposited on nickel nanowire arrays for high-performance supercapacitors. RSC Advances, 2018, 8, 17263-17271.	1.7	10
67	Embeddable Supercapacitors: Ultrahighâ€Workingâ€Frequency Embedded Supercapacitors with 1T Phase MoSe₂ Nanosheets for Systemâ€inâ€Package Application (Adv. Funct. Mater. 9/2019). Advanced Functional Materials, 2019, 29, 1970058.	7.8	10
68	All-printed paper based surface mountable supercapacitors. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 676-681.	1.8	9
69	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
70	Pseudocapacitive quantum dots confined in sacrificial g-C3N4 derived carbon nanosheets for high performance ionic liquid-based supercapacitors. Materials Letters, 2020, 266, 127498.	1.3	7
71	Laminar Metal Foam: A Soft and Highly Thermally Conductive Thermal Interface Material with a Reliable Joint for Semiconductor Packaging. ACS Applied Materials & Interfaces, 2021, 13, 15791-15801.	4.0	7
72	Battery-on-Separator: A platform technology for arbitrary-shaped lithium ion batteries for high energy density storage. Journal of Power Sources, 2021, 490, 229527.	4.0	6

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73	Scalable synthesis of the mono-dispersed silver micro-dendrites and their applications in the ultralow cost printed electrically conductive adhesives. , 2013, , .		4
74	High-throughput extracellular pH monitoring and antibiotics screening by polymeric fluorescent sensor with LCST property. Methods, 2019, 168, 51-61.	1.9	4
75	Interface metallization enabled an ultra-stable Fe₂O₃ hierarchical anode for pseudocapacitors. RSC Advances, 2020, 10, 8636-8644.	1.7	4
76	Direct solar to hydrogen conversion enabled by silicon photocathodes with carrier selective passivated contacts. Sustainable Energy and Fuels, 2022, 6, 349-360.	2.5	3
77	Silver Surface Iodination for Enhancing the Conductivity of Conductive Composites. Advanced Functional Materials, 2010, 20, n/a-n/a.	7.8	2
78	UV-activated surface modification of photo-cleavage polymer for contact printing applications. , 2008, , .		1
79	MnO₂@Nickel Nanocone Arrays with High Areal Capacitance for Flexible Zincion Supercapacitor. , 2020, , .		1
80	Laser-Induced Nitrogen-doped Graphene for High-Performance Flexible Supercapacitors. , 2020, , .		1
81	Exploration of the form factors of turbulence kinetic energy transfer for shear exfoliation of graphene. Nanotechnology, 2021, 32, 265601.	1.3	1
82	A Wadsleyâ€“Roth crystallographic shear phase SrNb₆O₁₆ anode for fast Li-ion storage. Chemical Communications, 2022, 58, 8626-8629.	2.2	1
83	Flexible thermoplastic conductive adhesive with high reliability. , 2009, , .		0
84	Improvement of the thermal conductivity by surface iodination. , 2013, , .		0
85	Silver dendrite-based nanocomposites for current cutting-off fuse. , 2015, , .		0
86	Stretchable copper wires based on reduction of active metallic nanoparticles and electroplating. , 2015, , .		0
87	All-printed paper based supercapacitors. , 2017, , .		0
88	Scalable synthesis of mono-dispersed nickel nanoparticles and their application as thermal conductive fillers. , 2017, , .		0
89	Catalysis: NiMo Solid Solution Nanowire Array Electrodes for Highly Efficient Hydrogen Evolution Reaction (Adv. Funct. Mater. 44/2019). Advanced Functional Materials, 2019, 29, 1970308.	7.8	0
90	MnO2@Nickel Nanocone Arrays Coated Paper Electrode for Flexible Supercapacitors. , 2019, , .		0

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91	Nickel-Cobalt Sulfide Nonwoven Cloth with UltraHigh Areal Capacitance for Flexible Supercapacitors. , 2019, , .		0
92	Scalable Metalized Polyacrylonitrile Fiber as the Current Collector for High-Performance Flexible Supercapacitors on Flexible Circuits. , 2019, , .		0
93	Nickel Metallized Nanofibers Based MnO2//PPy as Electrodes for All-in-One Ultrathin Flexible Asymmetric Supercapacitors. , 2020, , .		0
94	Hierarchical Metallized Polyimide Fiber for Flexible Supercapacitors with Ultra-High Capacity. , 2020, , .		0