

Yingwen Cheng

List of Publications by Year in descending order

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67
papers

9,126
citations

87843

38
h-index

98753

67
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70
all docs

70
docs citations

70
times ranked

12085
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. <i>Nature Energy</i> , 2016, 1, .	19.8	2,186
2	Design and Synthesis of Hierarchical MnO ₂ Nanospheres/Carbon Nanotubes/Conducting Polymer Ternary Composite for High Performance Electrochemical Electrodes. <i>Nano Letters</i> , 2010, 10, 2727-2733.	4.5	898
3	Synergistic Effects from Graphene and Carbon Nanotubes Enable Flexible and Robust Electrodes for High-Performance Supercapacitors. <i>Nano Letters</i> , 2012, 12, 4206-4211.	4.5	623
4	More than the Ions: The Effects of Silver Nanoparticles on <i>Lolium multiflorum</i> . <i>Environmental Science & Technology</i> , 2011, 45, 2360-2367.	4.6	494
5	Performance enhancement and degradation mechanism identification of a single-atom Co-N-C catalyst for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2020, 3, 1044-1054.	16.1	443
6	Size-Controlled Dissolution of Organic-Coated Silver Nanoparticles. <i>Environmental Science & Technology</i> , 2012, 46, 752-759.	4.6	374
7	Significantly Improved Long-Cycle Stability in High-Rate Li-S Batteries Enabled by Coaxial Graphene Wrapping over Sulfur-Coated Carbon Nanofibers. <i>Nano Letters</i> , 2013, 13, 2485-2489.	4.5	314
8	Highly Reversible Mg Insertion in Nanostructured Bi for Mg Ion Batteries. <i>Nano Letters</i> , 2014, 14, 255-260.	4.5	257
9	Highly Reversible Zinc-Ion Intercalation into Chevrel Phase Mo ₆ S ₈ Nanocubes and Applications for Advanced Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13673-13677.	4.0	256
10	Improving the performance of cobalt-nickel hydroxide-based self-supporting electrodes for supercapacitors using accumulative approaches. <i>Energy and Environmental Science</i> , 2013, 6, 3314.	15.6	223
11	Toxicity Reduction of Polymer-Stabilized Silver Nanoparticles by Sunlight. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4425-4432.	1.5	190
12	Flexible asymmetric supercapacitors with high energy and high power density in aqueous electrolytes. <i>Nanoscale</i> , 2013, 5, 1067-1073.	2.8	188
13	High performance batteries based on hybrid magnesium and lithium chemistry. <i>Chemical Communications</i> , 2014, 50, 9644-9646.	2.2	153
14	Silver nanoparticle-alginate composite beads for point-of-use drinking water disinfection. <i>Water Research</i> , 2013, 47, 3959-3965.	5.3	145
15	Highly active electrolytes for rechargeable Mg batteries based on a [Mg ₂ (^{1/4} -Cl) ₂] ²⁺ cation complex in dimethoxyethane. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13307-13314.	1.3	126
16	Polymeric Coatings on Silver Nanoparticles Hinder Autoaggregation but Enhance Attachment to Uncoated Surfaces. <i>Langmuir</i> , 2012, 28, 4178-4186.	1.6	112
17	Li _x NiO/Ni Heterostructure with Strong Basic Lattice Oxygen Enables Electrocatalytic Hydrogen Evolution with Pt-like Activity. <i>Journal of the American Chemical Society</i> , 2020, 142, 12613-12619.	6.6	103
18	Antimicrobial nanotechnology: its potential for the effective management of microbial drug resistance and implications for research needs in microbial nanotoxicology. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 93-102.	1.7	98

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19	Electronegative guests in CoSb ₃ . Energy and Environmental Science, 2016, 9, 2090-2098.	15.6	93
20	Rechargeable Mg–Li hybrid batteries: status and challenges. Journal of Materials Research, 2016, 31, 3125-3141.	1.2	92
21	Aqueous–Organic Phase-Transfer of Highly Stable Gold, Silver, and Platinum Nanoparticles and New Route for Fabrication of Gold Nanofilms at the Oil/Water Interface and on Solid Supports. Journal of Physical Chemistry B, 2006, 110, 12311-12317.	1.2	91
22	Deposition of Silver Nanoparticles in Geochemically Heterogeneous Porous Media: Predicting Affinity from Surface Composition Analysis. Environmental Science & Technology, 2011, 45, 5209-5215.	4.6	88
23	Interface Promoted Reversible Mg Insertion in Nanostructured Tin–Antimony Alloys. Advanced Materials, 2015, 27, 6598-6605.	11.1	88
24	Realizing the Full Potential of Insertion Anodes for Mg-Ion Batteries Through the Nanostructuring of Sn. Nano Letters, 2015, 15, 1177-1182.	4.5	87
25	A high-voltage rechargeable magnesium-sodium hybrid battery. Nano Energy, 2017, 34, 188-194.	8.2	84
26	Nanostructured Electrocatalysts for PEM Fuel Cells and Redox Flow Batteries: A Selected Review. ACS Catalysis, 2015, 5, 7288-7298.	5.5	78
27	Electrochemically stable cathode current collectors for rechargeable magnesium batteries. Journal of Materials Chemistry A, 2014, 2, 2473-2477.	5.2	77
28	Manipulating Polysulfide Conversion with Strongly Coupled Fe ₃ O ₄ and Nitrogen Doped Carbon for Stable and High Capacity Lithium–Sulfur Batteries. Advanced Functional Materials, 2019, 29, 1807309.	7.8	75
29	Facile Synthesis of Chevrel Phase Nanocubes and Their Applications for Multivalent Energy Storage. Chemistry of Materials, 2014, 26, 4904-4907.	3.2	73
30	Influence of the Nickel Oxide Nanostructure Morphology on the Effectiveness of Reduced Graphene Oxide Coating in Supercapacitor Electrodes. Journal of Physical Chemistry C, 2014, 118, 2281-2286.	1.5	66
31	Molecular Storage of Mg Ions with Vanadium Oxide Nanoclusters. Advanced Functional Materials, 2016, 26, 3446-3453.	7.8	65
32	Making a commercial carbon fiber cloth having comparable capacitances to carbon nanotubes and graphene in supercapacitors through a “top-down” approach. Nanoscale, 2015, 7, 3285-3291.	2.8	62
33	Toward the design of high voltage magnesium–lithium hybrid batteries using dual-salt electrolytes. Chemical Communications, 2016, 52, 5379-5382.	2.2	60
34	Near surface nucleation and particle mediated growth of colloidal Au nanocrystals. Nanoscale, 2018, 10, 11907-11912.	2.8	48
35	Highly Efficient Oxygen Reduction Electrocatalysts based on Winged Carbon Nanotubes. Scientific Reports, 2013, 3, 3195.	1.6	45
36	Organic solar cells using few-walled carbon nanotubes electrode controlled by the balance between sheet resistance and the transparency. Applied Physics Letters, 2009, 94, 123302.	1.5	44

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37	Redox Catalytic and Quasi-Solid Sulfur Conversion for High-Capacity Lean Lithium Sulfur Batteries. ACS Nano, 2019, 13, 14540-14548.	7.3	44
38	Carbon Free and Noble Metal Free Ni ₂ Mo ₆ S ₈ Electrocatalyst for Selective Electrosynthesis of H ₂ O ₂ . Advanced Functional Materials, 2021, 31, 2104716.	7.8	44
39	Sulfur-doped zinc oxide (ZnO) Nanostars: Synthesis and simulation of growth mechanism. Nano Research, 2012, 5, 20-26.	5.8	41
40	Organic-inorganic hybrids of Fe-Co polyphenolic network wrapped Fe ₃ O ₄ nanocatalysts for significantly enhanced oxygen evolution. Journal of Materials Chemistry A, 2019, 7, 14302-14308.	5.2	40
41	Carbon Nanomaterials for Flexible Energy Storage. Materials Research Letters, 2013, 1, 175-192.	4.1	38
42	High-Energy and Stable Subfreezing Aqueous Zn-MnO ₂ Batteries with Selective and Pseudocapacitive Zn-Ion Insertion in MnO ₂ . Advanced Materials, 2022, 34, e2201510.	11.1	36
43	A fast and stable Li metal anode incorporating an Mo ₆ S ₈ artificial interphase with super Li-ion conductivity. Journal of Materials Chemistry A, 2019, 7, 6038-6044.	5.2	34
44	Direct Optical Imaging of Graphene In Vitro by Nonlinear Femtosecond Laser Spectral Reshaping. Nano Letters, 2012, 12, 5936-5940.	4.5	29
45	High rate and stable symmetric potassium ion batteries fabricated with flexible electrodes and solid-state electrolytes. Nanoscale, 2018, 10, 20754-20760.	2.8	29
46	Elastic Na _x MoS ₂ -Carbon-BASE Triple Interface Direct Robust Solid-Solid Interface for All-Solid-State Na-S Batteries. Nano Letters, 2020, 20, 6837-6844.	4.5	29
47	Regulating Interfacial Na-Ion Flux via Artificial Layers with Fast Ionic Conductivity for Stable and High-Rate Na Metal Batteries. , 2019, 1, 303-309.		27
48	High rate and cycling stable Li metal anodes enabled with aluminum-zinc oxides modified copper foam. Journal of Energy Chemistry, 2020, 41, 87-92.	7.1	27
49	Synergistic Multisites Fe ₂ Mo ₆ S ₈ Electrocatalysts for Ambient Nitrogen Conversion to Ammonia. ACS Nano, 2021, 15, 16887-16895.	7.3	27
50	Monolithic co-aerogels of carbon/titanium dioxide as three dimensional nanostructured electrodes for energy storage. Journal of Power Sources, 2012, 218, 140-147.	4.0	20
51	Stable high capacity cycling of Li metal via directed and confined Li growth with robust composite sponge. Journal of Power Sources, 2019, 428, 1-7.	4.0	19
52	In vitro cytotoxicity of silver nanoparticles in primary rat hepatic stellate cells. Molecular Medicine Reports, 2013, 8, 1365-1372.	1.1	18
53	Modulating reactivity and stability of metallic lithium via atomic doping. Journal of Materials Chemistry A, 2020, 8, 10363-10369.	5.2	18
54	Unusual corrosion process of gold nanoplates and the mechanism study. Nanoscale, 2010, 2, 685.	2.8	16

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55	Modulating MnO ₂ Interface with Flexible and Self-Adhering Alkylphosphonic Layers for High-Performance Zn-MnO ₂ Batteries. ACS Applied Materials & Interfaces, 2021, 13, 23724-23731.	4.0	13
56	Energy-distinguishable bipolar UV photoelectron injection from LiCl-promoted FAPbCl ₃ perovskite nanorods. Journal of Materials Chemistry A, 2019, 7, 13043-13049.	5.2	10
57	Microfluidic, One-Batch Synthesis of Pd Nanocrystals on N-Doped Carbon in Surfactant-Free Deep Eutectic Solvents for Formic Acid Electrochemical Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 42704-42710.	4.0	9
58	Sodiated Na _x SnSb nanoparticles embedded in N-doped graphene sponges direct uniform Na nucleation and smooth plating for high efficiency Na metal batteries. Journal of Materials Chemistry A, 2021, 9, 6123-6130.	5.2	9
59	Synergistics of Fe ₃ C and Fe on Mesoporous Fe-N-C Sulfur Host for Nearly Complete and Fast Lithium Polysulfide Conversion. ACS Applied Materials & Interfaces, 2021, 13, 17791-17799.	4.0	9
60	Stabilization and transformation of Pt nanocrystals supported on ZnAl ₂ O ₄ spinel. RSC Advances, 2017, 7, 3282-3286.	1.7	7
61	A direct and facile synthetic route for micron-scale gold prisms and fabrication of gold prism thin films on solid substrates. Materials Chemistry and Physics, 2010, 119, 188-194.	2.0	6
62	One-Step Synthesis of Na-Sn Alloy with Internal 3D Na ₁₅ Sn ₄ Support for Fast and Stable Na Metal Batteries. ACS Applied Energy Materials, 2022, 5, 20-26.	2.5	6
63	Redox catalysis-promoted fast iodine kinetics for polyiodide-free Na-I ₂ electrochemistry. Journal of Materials Chemistry A, 2022, 10, 11325-11331.	5.2	6
64	Surface enrichment of Pt in stable Pt-Ir nano-alloy particles on MgAl ₂ O ₄ spinel in oxidizing atmosphere. Catalysis Communications, 2017, 93, 57-61.	1.6	5
65	Effect of Multi-Walled Carbon Nanotubes and Conducting Polymer on Capacitance of Mesoporous Carbon Electrode. Journal of Nanoscience and Nanotechnology, 2014, 14, 7015-7021.	0.9	4
66	Diameter dependent doping in horizontally aligned high-density N-doped SWNT arrays. Nano Research, 2019, 12, 1845-1850.	5.8	4
67	A Facile Route to Synthesize Gold Prisms Up to Micrometer Scale Based on Slow Reduction Methods. Journal of Dispersion Science and Technology, 2011, 32, 277-282.	1.3	1