Yingwen Cheng

List of Publications by Year
in descending order

67 papers	9,126 citations	87843 38 h-index	98753 67 g-index
70 all docs	70 docs citations	70 times ranked	12085 citing authors

#	Article	IF	Citations
1	Highâ€Energy and Stable Subfreezing Aqueous Znâ€“MnO₂ Batteries with Selective and Pseudocapacitive Znâ€Ion Insertion in MnO₂. Advanced Materials, 2022, 34, e2201510.	11.1	36
2	One-Step Synthesis of Naâ€“Sn Alloy with Internal 3D Na₁₅Sn₄ Support for Fast and Stable Na Metal Batteries. ACS Applied Energy Materials, 2022, 5, 20-26.	2.5	6
3	Redox catalysis-promoted fast iodine kinetics for polyiodide-free Naâ€“I₂ electrochemistry. Journal of Materials Chemistry A, 2022, 10, 11325-11331.	5.2	6
4	Sodiated Na_xSnSb 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
5	Synergistics of Fe₃C and Fe on Mesoporous Feâ€“Nâ€“C Sulfur Host for Nearly Complete and Fast Lithium Polysulfide Conversion. ACS Applied Materials & Interfaces, 2021, 13, 17791-17799.	4.0	9
6	Modulating MnO₂ Interface with Flexible and Self-Adhering Alkylphosphonic Layers for High-Performance Zn-MnO₂ Batteries. ACS Applied Materials & Interfaces, 2021, 13, 23724-23731.	4.0	13
7	Carbon Free and Noble Metal Free Ni₂Mo₆S₈ Electrocatalyst for Selective Electrosynthesis of H₂O₂. Advanced Functional Materials, 2021, 31, 2104716.	7.8	44
8	Synergistic Multisites Fe₂Mo₆S₈ Electrocatalysts for Ambient Nitrogen Conversion to Ammonia. ACS Nano, 2021, 15, 16887-16895.	7.3	27
9	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
10	Elastic Na_xMoS₂-Carbon-BASE Triple Interface Direct Robust Solidâ€“Solid Interface for All-Solid-State Naâ€“S Batteries. Nano Letters, 2020, 20, 6837-6844.	4.5	29
11	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
12	Performance enhancement and degradation mechanism identification of a single-atom Coâ€“Nâ€“C catalyst for proton exchange membrane fuel cells. Nature Catalysis, 2020, 3, 1044-1054.	16.1	443
13	Modulating reactivity and stability of metallic lithiumviaatomic doping. Journal of Materials Chemistry A, 2020, 8, 10363-10369.	5.2	18
14	Li_xNiO/Ni Heterostructure with Strong Basic Lattice Oxygen Enables Electrocatalytic Hydrogen Evolution with Pt-like Activity. Journal of the American Chemical Society, 2020, 142, 12613-12619.	6.6	103
15	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
16	Diameter dependent doping in horizontally aligned high-density N-doped SWNT arrays. Nano Research, 2019, 12, 1845-1850.	5.8	4
17	Organicâ€“inorganic hybrids of Feâ€“Co polyphenolic network wrapped Fe₃O₄ nanocatalysts for significantly enhanced oxygen evolution. Journal of Materials Chemistry A, 2019, 7, 14302-14308.	5.2	40
18	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

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19	Energy-distinguishable bipolar UV photoelectron injection from LiCl-promoted FAPbCl3 perovskite nanorods. Journal of Materials Chemistry A, 2019, 7, 13043-13049.	5.2	10
20	A fast and stable Li metal anode incorporating an Mo₆S₈ artificial interphase with super Li-ion conductivity. Journal of Materials Chemistry A, 2019, 7, 6038-6044.	5.2	34
21	Redox Catalytic and Quasi-Solid Sulfur Conversion for High-Capacity Lean Lithium Sulfur Batteries. ACS Nano, 2019, 13, 14540-14548.	7.3	44
22	Manipulating Polysulfide Conversion with Strongly Coupled Fe₃O₄ and Nitrogen Doped Carbon for Stable and High Capacity Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2019, 29, 1807309.	7.8	75
23	High rate and stable symmetric potassium ion batteries fabricated with flexible electrodes and solid-state electrolytes. Nanoscale, 2018, 10, 20754-20760.	2.8	29
24	Near surface nucleation and particle mediated growth of colloidal Au nanocrystals. Nanoscale, 2018, 10, 11907-11912.	2.8	48
25	Surface enrichment of Pt in stable Pt-Ir nano-alloy particles on MgAl2O4 spinel in oxidizing atmosphere. Catalysis Communications, 2017, 93, 57-61.	1.6	5
26	Stabilization and transformation of Pt nanocrystals supported on ZnAl2O4spinel. RSC Advances, 2017, 7, 3282-3286.	1.7	7
27	A high-voltage rechargeable magnesium-sodium hybrid battery. Nano Energy, 2017, 34, 188-194.	8.2	84
28	Molecular Storage of Mg Ions with Vanadium Oxide Nanoclusters. Advanced Functional Materials, 2016, 26, 3446-3453.	7.8	65
29	Rechargeable Mgâ€“Li hybrid batteries: status and challenges. Journal of Materials Research, 2016, 31, 3125-3141.	1.2	92
30	Highly Reversible Zinc-Ion Intercalation into Chevrel Phase Mo₆S₈ Nanocubes and Applications for Advanced Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13673-13677.	4.0	256
31	Electronegative guests in CoSb₃. Energy and Environmental Science, 2016, 9, 2090-2098.	15.6	93
32	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. Nature Energy, 2016, 1, .	19.8	2,186
33	Toward the design of high voltage magnesiumâ€“lithium hybrid batteries using dual-salt electrolytes. Chemical Communications, 2016, 52, 5379-5382.	2.2	60
34	Interface Promoted Reversible Mg Insertion in Nanostructured Tinâ€“Antimony Alloys. Advanced Materials, 2015, 27, 6598-6605.	11.1	88
35	Making a commercial carbon fiber cloth having comparable capacitances to carbon nanotubes and graphene in supercapacitors through a â€œtop-downâ€•approach. Nanoscale, 2015, 7, 3285-3291.	2.8	62
36	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

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37	Highly active electrolytes for rechargeable Mg batteries based on a [Mg₂(Î¼-Cl)₂]²⁺ cation complex in dimethoxyethane. Physical Chemistry Chemical Physics, 2015, 17, 13307-13314.	1.3	126
38	Nanostructured Electrocatalysts for PEM Fuel Cells and Redox Flow Batteries: A Selected Review. ACS Catalysis, 2015, 5, 7288-7298.	5.5	78
39	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
40	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
41	High performance batteries based on hybrid magnesium and lithium chemistry. Chemical Communications, 2014, 50, 9644-9646.	2.2	153
42	Facile Synthesis of Chevrel Phase Nanocubes and Their Applications for Multivalent Energy Storage. Chemistry of Materials, 2014, 26, 4904-4907.	3.2	73
43	Electrochemically stable cathode current collectors for rechargeable magnesium batteries. Journal of Materials Chemistry A, 2014, 2, 2473-2477.	5.2	77
44	Highly Reversible Mg Insertion in Nanostructured Bi for Mg Ion Batteries. Nano Letters, 2014, 14, 255-260.	4.5	257
45	Improving the performance of cobaltâ€“nickel hydroxide-based self-supporting electrodes for supercapacitors using accumulative approaches. Energy and Environmental Science, 2013, 6, 3314.	15.6	223
46	Flexible asymmetric supercapacitors with high energy and high power density in aqueous electrolytes. Nanoscale, 2013, 5, 1067-1073.	2.8	188
47	Carbon Nanomaterials for Flexible Energy Storage. Materials Research Letters, 2013, 1, 175-192.	4.1	38
48	Silver nanoparticle-alginate composite beads for point-of-use drinking water disinfection. Water Research, 2013, 47, 3959-3965.	5.3	145
49	Antimicrobial nanotechnology: its potential for the effective management of microbial drug resistance and implications for research needs in microbial nanotoxicology. Environmental Sciences: Processes and Impacts, 2013, 15, 93-102.	1.7	98
50	Significantly Improved Long-Cycle Stability in High-Rate Liâ€“S Batteries Enabled by Coaxial Graphene Wrapping over Sulfur-Coated Carbon Nanofibers. Nano Letters, 2013, 13, 2485-2489.	4.5	314
51	Highly Efficient Oxygen Reduction Electrocatalysts based on Winged Carbon Nanotubes. Scientific Reports, 2013, 3, 3195.	1.6	45
52	In vitro cytotoxicity of silver nanoparticles in primary rat hepatic stellate cells. Molecular Medicine Reports, 2013, 8, 1365-1372.	1.1	18
53	Direct Optical Imaging of Graphene In Vitro by Nonlinear Femtosecond Laser Spectral Reshaping. Nano Letters, 2012, 12, 5936-5940.	4.5	29
54	Polymeric Coatings on Silver Nanoparticles Hinder Autoaggregation but Enhance Attachment to Uncoated Surfaces. Langmuir, 2012, 28, 4178-4186.	1.6	112

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55	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
56	Size-Controlled Dissolution of Organic-Coated Silver Nanoparticles. Environmental Science & Technology, 2012, 46, 752-759.	4.6	374
57	Synergistic Effects from Graphene and Carbon Nanotubes Enable Flexible and Robust Electrodes for High-Performance Supercapacitors. Nano Letters, 2012, 12, 4206-4211.	4.5	623
58	Sulfur-doped zinc oxide (ZnO) Nanostars: Synthesis and simulation of growth mechanism. Nano Research, 2012, 5, 20-26.	5.8	41
59	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
60	More than the Ions: The Effects of Silver Nanoparticles on Lolium multiflorum. Environmental Science & Technology, 2011, 45, 2360-2367.	4.6	494
61	Toxicity Reduction of Polymer-Stabilized Silver Nanoparticles by Sunlight. Journal of Physical Chemistry C, 2011, 115, 4425-4432.	1.5	190
62	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
63	Unusual corrosion process of gold nanoplates and the mechanism study. Nanoscale, 2010, 2, 685.	2.8	16
64	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
65	Design and Synthesis of Hierarchical MnO₂ Nanospheres/Carbon Nanotubes/Conducting Polymer Ternary Composite for High Performance Electrochemical Electrodes. Nano Letters, 2010, 10, 2727-2733.	4.5	898
66	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
67	Aqueousâ˜'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