Zhong-Li Wang

List of Publications by Year
in descending order

66 papers	12,108 citations	61857 43 h-index	91712 69 g-index
69 all docs	69 docs citations	69 times ranked	14449 citing authors

#	Article	IF	Citations
1	Oxygen electrocatalysts in metalâ€“air batteries: from aqueous to nonaqueous electrolytes. Chemical Society Reviews, 2014, 43, 7746-7786.	18.7	1,264
2	Nanoarchitectonics for Transitionâ€Metalâ€Sulfideâ€Based Electrocatalysts for Water Splitting. Advanced Materials, 2019, 31, e1807134.	11.1	998
3	Integrated Three-Dimensional Carbon Paper/Carbon Tubes/Cobalt-Sulfide Sheets as an Efficient Electrode for Overall Water Splitting. ACS Nano, 2016, 10, 2342-2348.	7.3	575
4	Tailoring deposition and morphology of discharge products towards high-rate and long-life lithium-oxygen batteries. Nature Communications, 2013, 4, 2438.	5.8	519
5	One-Pot Synthesis of Zeolitic Imidazolate Framework 67-Derived Hollow Co₃S₄@MoS₂ Heterostructures as Efficient Bifunctional Catalysts. Chemistry of Materials, 2017, 29, 5566-5573.	3.2	510
6	Synthesis of Perovskiteâ€Based Porous La_{0.75}Sr_{0.25}MnO₃ Nanotubes as a Highly Efficient Electrocatalyst for Rechargeable Lithiumâ€“Oxygen Batteries. Angewandte Chemie - International Edition, 2013, 52, 3887-3890.	7.2	482
7	In Situ Fabrication of Porous Graphene Electrodes for High-Performance Energy Storage. ACS Nano, 2013, 7, 2422-2430.	7.3	394
8	Graphene Oxide Gelâ€Derived, Freeâ€Standing, Hierarchically Porous Carbon for Highâ€Capacity and Highâ€Rate Rechargeable Liâ€O₂ Batteries. Advanced Functional Materials, 2012, 22, 3699-3705.	7.8	390
9	Elaborately assembled core-shell structured metal sulfides as a bifunctional catalyst for highly efficient electrochemical overall water splitting. Nano Energy, 2018, 47, 494-502.	8.2	383
10	C and N Hybrid Coordination Derived Coâ€“Câ€“N Complex as a Highly Efficient Electrocatalyst for Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2015, 137, 15070-15073.	6.6	377
11	Hollow Functional Materials Derived from Metalâ€“Organic Frameworks: Synthetic Strategies, Conversion Mechanisms, and Electrochemical Applications. Advanced Materials, 2019, 31, e1804903.	11.1	370
12	Reactive Multifunctional Templateâ€Induced Preparation of Feâ€Nâ€Doped Mesoporous Carbon Microspheres Towards Highly Efficient Electrocatalysts for Oxygen Reduction. Advanced Materials, 2016, 28, 7948-7955.	11.1	342
13	3D ordered macroporous LaFeO3 as efficient electrocatalyst for Liâ€“O2 batteries with enhanced rate capability and cyclic performance. Energy and Environmental Science, 2014, 7, 2213.	15.6	339
14	Homogeneous CoO on Graphene for Binderâ€Free and Ultralongâ€Life Lithium Ion Batteries. Advanced Functional Materials, 2013, 23, 4345-4353.	7.8	333
15	Synergistic Effect between Metalâ€“Nitrogenâ€“Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Waterâ€Oxidation Performance. Angewandte Chemie - International Edition, 2015, 54, 10530-10534.	7.2	301
16	Novel DMSO-based electrolyte for high performance rechargeable Liâ€“O2 batteries. Chemical Communications, 2012, 48, 6948.	2.2	281
17	Assembly of Hollow Carbon Nanospheres on Graphene Nanosheets and Creation of Ironâ€“Nitrogen-Doped Porous Carbon for Oxygen Reduction. ACS Nano, 2018, 12, 5674-5683.	7.3	277
18	Facile, mild and fast thermal-decomposition reduction of graphene oxide in air and its application in high-performance lithium batteries. Chemical Communications, 2012, 48, 976-978.	2.2	240

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19	Electrostatic Induced Stretch Growth of Homogeneous Î²-Ni(OH)2 on Graphene with Enhanced High-Rate Cycling for Supercapacitors. Scientific Reports, 2014, 4, 3669.	1.6	222
20	Rhodiumâ€“nickel nanoparticles grown on graphene as highly efficient catalyst for complete decomposition of hydrous hydrazine at room temperature for chemical hydrogen storage. Energy and Environmental Science, 2012, 5, 6885.	15.6	214
21	Nanostructured nonprecious metal catalysts for electrochemical reduction of carbon dioxide. Nano Today, 2016, 11, 373-391.	6.2	200
22	Subâ€50 nm Ironâ€“Nitrogenâ€Doped Hollow Carbon Sphereâ€Encapsulated Iron Carbide Nanoparticles as Efficient Oxygen Reduction Catalysts. Advanced Science, 2018, 5, 1800120.	5.6	187
23	Perfectly ordered mesoporous iron-nitrogen doped carbon as highly efficient catalyst for oxygen reduction reaction in both alkaline and acidic electrolytes. Nano Energy, 2017, 36, 286-294.	8.2	183
24	Pore-tuning to boost the electrocatalytic activity of polymeric micelle-templated mesoporous Pd nanoparticles. Chemical Science, 2019, 10, 4054-4061.	3.7	175
25	Assembly of hollow mesoporous nanoarchitectures composed of ultrafine Mo₂C nanoparticles on N-doped carbon nanosheets for efficient electrocatalytic reduction of oxygen. Materials Horizons, 2017, 4, 1171-1177.	6.4	167
26	Hollow Porous Heterometallic Phosphide Nanocubes for Enhanced Electrochemical Water Splitting. Small, 2018, 14, e1802442.	5.2	166
27	Gelatin-derived sustainable carbon-based functional materials for energy conversion and storage with controllability of structure and component. Science Advances, 2015, 1, e1400035.	4.7	144
28	Spatially Confined Assembly of Monodisperse Ruthenium Nanoclusters in a Hierarchically Ordered Carbon Electrode for Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2018, 57, 5848-5852.	7.2	135
29	One-step and rapid synthesis of â€œcleanâ€•and monodisperse dendritic Pt nanoparticles and their high performance toward methanol oxidation and p-nitrophenol reduction. Nanoscale, 2012, 4, 1549.	2.8	130
30	Preparation of One-Dimensional CoFe₂O₄ Nanostructures and Their Magnetic Properties. Journal of Physical Chemistry C, 2008, 112, 15171-15175.	1.5	126
31	Preparation of Ferrite MFe₂O₄ (M = Co, Ni) Ribbons with Nanoporous Structure and Their Magnetic Properties. Journal of Physical Chemistry B, 2008, 112, 11292-11297.	1.2	124
32	High aspect ratio Î³-MnOOH nanowires for high performance rechargeable nonaqueous lithiumâ€“oxygen batteries. Chemical Communications, 2012, 48, 7598.	2.2	109
33	Mesoporous Niâ€“Fe oxide multi-composite hollow nanocages for efficient electrocatalytic water oxidation reactions. Journal of Materials Chemistry A, 2017, 5, 4320-4324.	5.2	108
34	A stable sulfone based electrolyte for high performance rechargeable Liâ€“O2 batteries. Chemical Communications, 2012, 48, 11674.	2.2	99
35	Co-gelation synthesis of porous graphitic carbons with high surface area and their applications. Carbon, 2011, 49, 161-169.	5.4	97
36	Facile and controllable one-pot synthesis of an ordered nanostructure of Co(OH)2 nanosheets and their modification by oxidation for high-performance lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 3764.	6.7	94

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37	Tailored Catalytic Nanoframes from Metalâ€“Organic Frameworks by Anisotropic Surface Modification and Etching for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2021, 60, 4747-4755.	7.2	92
38	Tailoring the Surface and Interface Structures of Copperâ€Based Catalysts for Electrochemical Reduction of CO₂ to Ethylene and Ethanol. Small, 2022, 18, e2107450.	5.2	87
39	Facile and Lowâ€Cost Synthesis of Largeâ€Area Pure V₂O₅ Nanosheets for Highâ€Capacity and Highâ€Rate Lithium Storage over a Wide Temperature Range. ChemPlusChem, 2012, 77, 124-128.	1.3	80
40	Optimizing Electron Densities of Niâ€Nâ€C Complexes by Hybrid Coordination for Efficient Electrocatalytic CO₂ Reduction. ChemSusChem, 2020, 13, 929-937.	3.6	76
41	Simple synthesis of magnetic mesoporous FeNi/carbon composites with a large capacity for the immobilization of biomolecules. Carbon, 2010, 48, 3182-3189.	5.4	55
42	Morphologically controlled cobalt oxide nanoparticles for efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2021, 582, 322-332.	5.0	51
43	Synthesis of Cobalt Sulfide/Sulfur Doped Carbon Nanocomposites with Efficient Catalytic Activity in the Oxygen Evolution Reaction. Chemistry - A European Journal, 2016, 22, 18259-18264.	1.7	43
44	Tailored synthesis of Znâ€“N co-doped porous MoC nanosheets towards efficient hydrogen evolution. Nanoscale, 2019, 11, 1700-1709.	2.8	39
45	Mesoporous Semimetallic Conductors: Structural and Electronic Properties of Cobalt Phosphide Systems. Angewandte Chemie - International Edition, 2017, 56, 13508-13512.	7.2	36
46	Electrochemically in situ controllable assembly of hierarchically-ordered and integrated inorganicâ€“carbon hybrids for efficient hydrogen evolution. Materials Horizons, 2018, 5, 1194-1203.	6.4	31
47	The development and challenges of rechargeable non-aqueous lithiumâ€“air batteries. International Journal of Smart and Nano Materials, 2013, 4, 27-46.	2.0	30
48	Tunable Synthesis, Growth Mechanism, and Magnetic Properties of La0.5Ba0.5MnO3. Crystal Growth and Design, 2007, 7, 2568-2575.	1.4	29
49	Metal organic framework derived nickel phosphide/graphitic carbon hybrid for electrochemical hydrogen generation reaction. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 634-638.	2.7	27
50	The magnetic and structural properties of hydrothermal-synthesized single-crystal Sn1âˆ’xFexO2 nanograins. Journal of Magnetism and Magnetic Materials, 2007, 317, 1-7.	1.0	25
51	Ti³⁺ Tuning the Ratio of Cu⁺/Cu⁰ in the Ultrafine Cu Nanoparticles for Boosting the Hydrogenation Reaction. Small, 2021, 17, e2008052.	5.2	25
52	Mn Valence, Magnetic, and Electrical Properties of LaMnO_{3+Î´} Nanofibers by Electrospinning. ACS Applied Materials & Interfaces, 2010, 2, 2689-2693.	4.0	23
53	A new kind of mesoporous Fe7Co3/carbon nanocomposite and its application as magnetically separable adsorber. Materials Letters, 2010, 64, 1219-1221.	1.3	21
54	Facile Synthesis of Porous Fe7Co3/Carbon Nanocomposites and Their Applications as Magnetically Separable Adsorber and Catalyst Support. Langmuir, 2010, 26, 10135-10140.	1.6	19

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55	Î±-MnO2 hollow clews for rechargeable Li-air batteries with improved cyclability. Science Bulletin, 2012, 57, 4210-4214.	1.7	19
56	Hierarchical Tubular Architecture Constructed by Vertically Aligned CoS₂â€MoS₂ Nanosheets for Hydrogen Evolution Electrocatalysis. Chemistry - A European Journal, 2020, 26, 6195-6204.	1.7	18
57	Tailored Catalytic Nanoframes from Metalâ€“Organic Frameworks by Anisotropic Surface Modification and Etching for the Hydrogen Evolution Reaction. Angewandte Chemie, 2021, 133, 4797-4805.	1.6	18
58	Structures and Physical Properties of n = 3 Ruddlesdenâ€“Popper Compounds Ca₄Mn_{3â^'x}Nb_xO₁₀ (0 â‰¤ x â‰¤ 0.2). Chemistry of Materials, 2008, 20, 1988-1996.	3.2	17
59	Batteries: Homogeneous CoO on Graphene for Binderâ€Free and Ultralongâ€Life Lithium Ion Batteries (Adv. Funct. Mater. 35/2013). Advanced Functional Materials, 2013, 23, 4274-4274.	7.8	17
60	Mesoporous Semimetallic Conductors: Structural and Electronic Properties of Cobalt Phosphide Systems. Angewandte Chemie, 2017, 129, 13693-13697.	1.6	16
61	First Synthesis of Continuous Mesoporous Copper Films with Uniformly Sized Pores by Electrochemical Soft Templating. Angewandte Chemie, 2016, 128, 12938-12942.	1.6	15
62	Spatially Confined Assembly of Monodisperse Ruthenium Nanoclusters in a Hierarchically Ordered Carbon Electrode for Efficient Hydrogen Evolution. Angewandte Chemie, 2018, 130, 5950-5954.	1.6	12
63	A facile co-gelation route to synthesize FeCo/carbon nanocomposites and their application as magnetically separable adsorber. Journal of Alloys and Compounds, 2011, 509, 585-589.	2.8	10
64	Facile Synthesis of Palladiumâ€Nanoparticleâ€Embedded Nâ€Doped Carbon Fibers for Electrochemical Sensing. ChemPlusChem, 2018, 83, 401-406.	1.3	8
65	Lithium Ion Batteries: Graphene Oxide Gelâ€Derived, Freeâ€Standing, Hierarchically Porous Carbon for Highâ€Capacity and Highâ€Rate Rechargeable Liâ€O₂ Batteries (Adv. Funct. Mater. 17/2012). Advanced Functional Materials, 2012, 22, 3745-3745.	7.8	2
66	Ru ions enhancing the interface bonding between the Pt nanoparticle catalyst and perovskite support for super anti-sintering performance. Journal of Materials Chemistry A, 2022, 10, 8227-8237.	5.2	2