

Zhenghang Zhao

List of Publications by Year in descending order

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20
papers

5,284
citations

430754

18
h-index

752573

20
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21
all docs

21
docs citations

21
times ranked

8021
citing authors

#	ARTICLE	IF	CITATIONS
1	A metal-free bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. Nature Nanotechnology, 2015, 10, 444-452.	15.6	2,782
2	In Situ Exfoliated, Edge-Rich, Oxygen-Functionalized Graphene from Carbon Fibers for Oxygen Electrocatalysis. Advanced Materials, 2017, 29, 1606207.	11.1	532
3	Design Principles for Heteroatom-Doped Carbon Nanomaterials as Highly Efficient Catalysts for Fuel Cells and Metal-Free Air Batteries. Advanced Materials, 2015, 27, 6834-6840.	11.1	490
4	Covalent Organic Framework Electrocatalysts for Clean Energy Conversion. Advanced Materials, 2018, 30, 1703646.	11.1	309
5	In Situ Phosphatizing of Triphenylphosphine Encapsulated within Metal-Organic Frameworks to Design Atomic Co ₁ P ₁ N ₃ Interfacial Structure for Promoting Catalytic Performance. Journal of the American Chemical Society, 2020, 142, 8431-8439.	6.6	259
6	Design Principles for Dual-Element-Doped Carbon Nanomaterials as Efficient Bifunctional Catalysts for Oxygen Reduction and Evolution Reactions. ACS Catalysis, 2016, 6, 1553-1558.	5.5	179
7	Design Principles for Covalent Organic Frameworks as Efficient Electrocatalysts in Clean Energy Conversion and Green Oxidizer Production. Advanced Materials, 2017, 29, 1606635.	11.1	167
8	Guiding Principles for Designing Highly Efficient Metal-Free Carbon Catalysts. Advanced Materials, 2019, 31, e1805252.	11.1	110
9	Tunable Selectivity for Electrochemical CO ₂ Reduction by Bimetallic Cu-Sn Catalysts: Elucidating the Roles of Cu and Sn. ACS Catalysis, 2021, 11, 11103-11108.	5.5	82
10	Interpreting Tafel behavior of consecutive electrochemical reactions through combined thermodynamic and steady state microkinetic approaches. Energy and Environmental Science, 2020, 13, 622-634.	15.6	67
11	Energy density-enhancement mechanism and design principles for heteroatom-doped carbon supercapacitors. Nano Energy, 2020, 72, 104666.	8.2	65
12	Electron Transfer and Catalytic Mechanism of Organic Molecule-Adsorbed Graphene Nanoribbons as Efficient Catalysts for Oxygen Reduction and Evolution Reactions. Journal of Physical Chemistry C, 2016, 120, 2166-2175.	1.5	42
13	Improved Oxygen Reduction Reaction Activity of Nanostructured CoS ₂ through Electrochemical Tuning. ACS Applied Energy Materials, 2019, 2, 8605-8614.	2.5	42
14	Catalytic mechanism and design principles for heteroatom-doped graphene catalysts in dye-sensitized solar cells. Nano Energy, 2018, 49, 193-199.	8.2	38
15	Dynamic evolution of isolated Ru-FeP atomic interface sites for promoting the electrochemical hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 22607-22612.	5.2	36
16	Trends in Oxygen Electrocatalysis of 3D-Layered (Oxy)(Hydro)Oxides. ChemCatChem, 2019, 11, 3423-3431.	1.8	33
17	Prediction of Stable and Active (Oxy-Hydro) Oxide Nanoislands on Noble-Metal Supports for Electrochemical Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2019, 11, 2006-2013.	4.0	24
18	Synthesis, properties and applications of 3D carbon nanotube-graphene junctions. Journal Physics D: Applied Physics, 2016, 49, 443001.	1.3	18

#	ARTICLE	IF	CITATIONS
19	Rational design of efficient transition metal core-shell electrocatalysts for oxygen reduction and evolution reactions. RSC Advances, 2019, 9, 536-542.	1.7	5
20	Interactions between Dopants in Dual-Doped Graphene Nanoribbons as Metal-Free Bifunctional Catalysts for Fuel Cell and Metal-Air Batteries. MRS Advances, 2016, 1, 421-425.	0.5	2