

# Zhaohui Xiao

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

5,644  
citations

471061

17  
h-index

752256

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

6660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-Engraved Co <sub>3</sub> O <sub>4</sub> Nanosheets with Oxygen Vacancies and High Surface Area for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5277-5281.	7.2	1,646
2	Filling the oxygen vacancies in Co <sub>3</sub> O <sub>4</sub> with phosphorus: an ultra-efficient electrocatalyst for overall water splitting. <i>Energy and Environmental Science</i> , 2017, 10, 2563-2569.	15.6	859
3	<i>Operando</i> Identification of the Dynamic Behavior of Oxygen Vacancy-Rich Co <sub>3</sub> O <sub>4</sub> for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020, 142, 12087-12095.	6.6	736
4	Plasma-Engraved Co <sub>3</sub> O <sub>4</sub> Nanosheets with Oxygen Vacancies and High Surface Area for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2016, 128, 5363-5367.	1.6	472
5	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , 2019, 2, 688-695.	16.1	423
6	3D Carbon Electrocatalysts In Situ Constructed by Defect-Rich Nanosheets and Polyhedrons from NaCl-Sealed Zeolitic Imidazolate Frameworks. <i>Advanced Functional Materials</i> , 2018, 28, 1705356.	7.8	233
7	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1019-1024.	7.2	224
8	Low-temperature synthesis of small-sized high-entropy oxides for water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24211-24216.	5.2	207
9	Defect Engineering of Cobalt-Based Materials for Electrocatalytic Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15954-15969.	3.2	151
10	N-doped nanoporous Co <sub>3</sub> O <sub>4</sub> nanosheets with oxygen vacancies as oxygen evolving electrocatalysts. <i>Nanotechnology</i> , 2017, 28, 165402.	1.3	105
11	Engineering the electronic structure of Co <sub>3</sub> O <sub>4</sub> by carbon-doping for efficient overall water splitting. <i>Electrochimica Acta</i> , 2019, 303, 316-322.	2.6	98
12	Transforming Co <sub>3</sub> O <sub>4</sub> nanosheets into porous N-doped Co <sub>3</sub> O <sub>4</sub> nanosheets with oxygen vacancies for the oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2019, 35, 24-29.	7.1	98
13	Recent advances in defect electrocatalysts: Preparation and characterization. <i>Journal of Energy Chemistry</i> , 2021, 53, 208-225.	7.1	98
14	Edge-selectively phosphorus-doped few-layer graphene as an efficient metal-free electrocatalyst for the oxygen evolution reaction. <i>Chemical Communications</i> , 2016, 52, 13008-13011.	2.2	87
15	Identifying the Intrinsic Relationship between the Restructured Oxide Layer and Oxygen Evolution Reaction Performance on the Cobalt Pnictide Catalyst. <i>Small</i> , 2020, 16, e1906867.	5.2	72
16	Defect-Induced In-Plane Heterophase in Cobalt Oxide Nanosheets for Oxygen Evolution Reaction. <i>Small</i> , 2019, 15, e1904903.	5.2	69
17	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. <i>Angewandte Chemie</i> , 2019, 131, 1031-1036.	1.6	41
18	(E)-Propyl $\beta$ -Cyano-4-Hydroxyl Cinnamylate: A High Sensitive and Salt Tolerant Matrix for Intact Protein Profiling by MALDI Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 709-718.	1.2	18

#	ARTICLE	IF	CITATIONS
19	A significant enhancement of bulk charge separation in photoelectrocatalysis by ferroelectric polarization induced in CdS/BaTiO <sub>3</sub> nanowires. RSC Advances, 2021, 11, 26534-26545.	1.7	4
20	A Facile and Environmental-Friendly Approach to Synthesize S-Doped Fe/Ni Layered Double Hydroxide Catalyst with High Oxygen Evolution Reaction Efficiency in Water Splitting. ChemElectroChem, 2022, 9, .	1.7	3