

Zhu Xiaorong

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

3,153
citations

304743

22
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

3253
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling N ₂ and CO ₂ in H ₂ O to synthesize urea under ambient conditions. <i>Nature Chemistry</i> , 2020, 12, 717-724.	13.6	485
2	Structural defects on converted bismuth oxide nanotubes enable highly active electrocatalysis of carbon dioxide reduction. <i>Nature Communications</i> , 2019, 10, 2807.	12.8	456
3	Uncovering near-free platinum single-atom dynamics during electrochemical hydrogen evolution reaction. <i>Nature Communications</i> , 2020, 11, 1029.	12.8	379
4	Combined anodic and cathodic hydrogen production from aldehyde oxidation and hydrogen evolution reaction. <i>Nature Catalysis</i> , 2022, 5, 66-73.	34.4	276
5	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the N-N Bond. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7297-7307.	13.8	204
6	Mesoporous PdAg Nanospheres for Stable Electrochemical CO ₂ Reduction to Formate. <i>Advanced Materials</i> , 2020, 32, e2000992.	21.0	153
7	Activity Origin and Design Principles for Oxygen Reduction on Dual-Metal-Site Catalysts: A Combined Density Functional Theory and Machine Learning Study. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7760-7766.	4.6	149
8	Electrochemical synthesis of urea on MBenes. <i>Nature Communications</i> , 2021, 12, 4080.	12.8	147
9	Simultaneous oxidative and reductive reactions in one system by atomic design. <i>Nature Catalysis</i> , 2021, 4, 134-143.	34.4	132
10	Electroactive Metal-Organic Frameworks as Emitters for Self-Enhanced Electrochemiluminescence in Aqueous Medium. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10446-10450.	13.8	96
11	Ultradispersed WxC nanoparticles enable fast polysulfide interconversion for high-performance Li-S batteries. <i>Nano Energy</i> , 2019, 59, 636-643.	16.0	83
12	Single-Atom In-Doped Subnanometer Pt Nanowires for Simultaneous Hydrogen Generation and Biomass Upgrading. <i>Advanced Functional Materials</i> , 2020, 30, 2004310.	14.9	77
13	Review of two-dimensional materials for electrochemical CO ₂ reduction from a theoretical perspective. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019, 9, e1416.	14.6	59
14	Engineering Mo/Mo ₂ C/MoC hetero-interfaces for enhanced electrocatalytic nitrogen reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8920-8926.	10.3	54
15	Toward Highly Selective Electrochemical CO ₂ Reduction using Metal-Free Heteroatom-Doped Carbon. <i>Advanced Science</i> , 2020, 7, 2001002.	11.2	48
16	Facet-tailoring five-coordinated Ti sites and structure-optimizing electron transfer in a bifunctional cathode with titanium nitride nanowire array to boost the performance of Li ₂ S ₆ -based lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 26, 40-45.	18.0	43
17	A Large-Scalable, Surfactant-Free, and Ultrastable Ru-Doped Pt ₃ Co Oxygen Reduction Catalyst. <i>Nano Letters</i> , 2021, 21, 6625-6632.	9.1	43
18	Spin-Orbit Coupling-Dominated Catalytic Activity of Two-Dimensional Bismuth toward CO ₂ Electroreduction: Not the Thinner the Better. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4663-4667.	4.6	41

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19	Biocompatible Ruthenium Single-Atom Catalyst for Cascade Enzyme-Mimicking Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45269-45278.	8.0	41
20	Pd ₂ Se ₃ monolayer: a novel two-dimensional material with excellent electronic, transport, and optical properties. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4494-4500.	5.5	36
21	Identification of the hydrogen utilization pathway for the electrocatalytic hydrogenation of phenol. <i>Science China Chemistry</i> , 2021, 64, 1586-1595.	8.2	26
22	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the N-N Bond. <i>Angewandte Chemie</i> , 2021, 133, 7373-7383.	2.0	24
23	Artificial Neuron Networks Enabled Identification and Characterizations of 2D Materials and van der Waals Heterostructures. <i>ACS Nano</i> , 2022, 16, 2721-2729.	14.6	22
24	Ti ₂ PTe ₂ monolayer: a promising two-dimensional anode material for sodium-ion batteries. <i>RSC Advances</i> , 2019, 9, 15536-15541.	3.6	18
25	Study on the Structure-Activity Relationship Between Single-Atom, Cluster and Nanoparticle Catalysts in a Hierarchical Structure for the Oxygen Reduction Reaction. <i>Small</i> , 2022, 18, e2105487.	10.0	16
26	Î²-PdBi ₂ monolayer: two-dimensional topological metal with superior catalytic activity for carbon dioxide electroreduction to formic acid. <i>Materials Today Advances</i> , 2020, 8, 100091.	5.2	14
27	Electroactive Metal-Organic Frameworks as Emitters for Self-Enhanced Electrochemiluminescence in Aqueous Medium. <i>Angewandte Chemie</i> , 2020, 132, 10532-10536.	2.0	13
28	Lithium Vacancy-Tuned [CuO ₄] Sites for Selective CO ₂ Electroreduction to C ₂₊ Products. <i>Small</i> , 2022, 18, e2106433.	10.0	13
29	Advances in two dimensional electrochemical catalysts for ammonia synthesis. <i>Chinese Science Bulletin</i> , 2021, 66, 625-639.	0.7	5