

Lejuan Cai

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

2,158
citations

430874

18
h-index

752698

20
g-index

20
all docs

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docs citations

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times ranked

3099
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-Assisted Anchoring of Pt Single Atoms on MoS ₂ Nanosheets Produces High-Performance Catalyst for Industrial Hydrogen Evolution Reaction. <i>Small</i> , 2022, 18, e2104824.	10.0	36
2	Governing Interlayer Strain in Bismuth Nanocrystals for Efficient Ammonia Electrosynthesis from Nitrate Reduction. <i>ACS Nano</i> , 2022, 16, 4795-4804.	14.6	76
3	Bifunctional TiN@N-doped-graphene catalyst based high sulfur content cathode for reversible Aluminum-Sulfur batteries. <i>Energy Storage Materials</i> , 2022, 48, 297-305.	18.0	16
4	Metal Substitution Steering Electron Correlations in Pyrochlore Ruthenates for Efficient Acidic Water Oxidation. <i>ACS Nano</i> , 2021, 15, 8537-8548.	14.6	54
5	Transferred metal gate to 2D semiconductors for sub-1 V operation and near ideal subthreshold slope. <i>Science Advances</i> , 2021, 7, eabf8744.	10.3	37
6	Lattice oxygen activation enabled by high-valence metal sites for enhanced water oxidation. <i>Nature Communications</i> , 2020, 11, 4066.	12.8	337
7	Enhanced Electrocatalytic Hydrogen Evolution Activity in Single-Atom Pt-Decorated VS ₂ Nanosheets. <i>ACS Nano</i> , 2020, 14, 5600-5608.	14.6	135
8	Computational Design of Transition Metal Single-Atom Electrocatalysts on PtS ₂ for Efficient Nitrogen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20448-20455.	8.0	58
9	Remarkably Enhanced Hydrogen Generation of Organolead Halide Perovskites via Piezocatalysis and Photocatalysis. <i>Advanced Energy Materials</i> , 2019, 9, 1901801.	19.5	134
10	Phosphorus Incorporation into Co ₉ S ₈ Nanocages for Highly Efficient Oxygen Evolution Catalysis. <i>Small</i> , 2019, 15, e1904507.	10.0	75
11	Robust Photoelectrochemical Oxygen Evolution with N, Fe-CoS ₂ Nanorod Arrays. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44214-44222.	8.0	21
12	CeO ₂ -Induced Interfacial Co ²⁺ Octahedral Sites and Oxygen Vacancies for Water Oxidation. <i>ACS Catalysis</i> , 2019, 9, 6484-6490.	11.2	278
13	Monolithic Integration of All-in-One Supercapacitor for 3D Electronics. <i>Advanced Energy Materials</i> , 2019, 9, 1900037.	19.5	51
14	Fabrication of Nickel-Cobalt Bimetal Phosphide Nanocages for Enhanced Oxygen Evolution Catalysis. <i>Advanced Functional Materials</i> , 2018, 28, 1706008.	14.9	370
15	Modulation of the Reduction Potential of TiO ₂ by Fluorination for Efficient and Selective CH ₄ Generation from CO ₂ Photoreduction. <i>Nano Letters</i> , 2018, 18, 3384-3390.	9.1	166
16	Active site engineering of Fe- and Ni-sites for highly efficient electrochemical overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21445-21451.	10.3	68
17	Improved air-stability of an organic-inorganic perovskite with anhydrously transferred graphene. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8663-8669.	5.5	9
18	Graphene-Draped Semiconductors for Enhanced Photocorrosion Resistance and Photocatalytic Properties. <i>Journal of the American Chemical Society</i> , 2017, 139, 4144-4151.	13.7	149

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19	Phase and Facet Control of Molybdenum Carbide Nanosheet Observed by In Situ TEM. <i>Small</i> , 2017, 13, 1700051.	10.0	41
20	Improved interfacial H ₂ /O supply by surface hydroxyl groups for enhanced alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24091-24097.	10.3	47