

Xiyang Wang

List of Publications by Year in descending order

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45
papers

1,945
citations

279798

23
h-index

265206

42
g-index

48
all docs

48
docs citations

48
times ranked

2566
citing authors

#	ARTICLE	IF	CITATIONS
1	Switching Optimally Balanced Fe-N Interaction Enables Extremely Stable Energy Storage. Energy and Environmental Materials, 2023, 6, .	12.8	29
2	MOF-derived N-doped ZnO carbon skeleton@hierarchical Bi ₂ MoO ₆ S-scheme heterojunction for photodegradation of SMX: Mechanism, pathways and DFT calculation. Journal of Hazardous Materials, 2022, 426, 128106.	12.4	98
3	Synergistic Effects of a CeO ₂ /SmMn ₂ O ₅ H Diesel Oxidation Catalyst Induced by Acid-Selective Dissolution Drive the Catalytic Oxidation Reaction. ACS Applied Materials & Interfaces, 2022, 14, 2860-2870.	8.0	8
4	Activating Surface Lattice Oxygen of a Cu/Zn _{1-x} Cu _x O Catalyst through Interface Interactions for CO Oxidation. ACS Applied Materials & Interfaces, 2022, 14, 9882-9890.	8.0	13
5	Engineering surface segregation of perovskite oxide through wet exsolution for CO catalytic oxidation. Journal of Hazardous Materials, 2022, 436, 129110.	12.4	7
6	High-density/efficient surface active sites on modified separators to boost Li-S batteries via atomic Co ³⁺ -Se termination. Nano Research, 2022, 15, 7199-7208.	10.4	18
7	Fluorine induced surface reconstruction of perovskite ferrite oxide as cathode catalyst for prolong-life Li-O ₂ battery. Chemical Engineering Journal, 2022, 448, 137684.	12.7	13
8	The interplay between selective etching induced cation defects and active oxygen species for volatile organic compounds degradation. Journal of Colloid and Interface Science, 2022, 625, 363-372.	9.4	8
9	Modulating Ti _{2g} Orbital Occupancy in a Cu/TiO ₂ Composite for Selective Photocatalytic CO ₂ Reduction to CO. Angewandte Chemie - International Edition, 2022, 61, .	13.8	35
10	High-quality borophene quantum dot realization and their application in a photovoltaic device. Journal of Materials Chemistry A, 2021, 9, 24036-24043.	10.3	14
11	Cation-Exchange-Induced Metal and Alloy Dual-Exsolution in Perovskite Ferrite Oxides Boosting the Performance of Li-O ₂ Battery. Angewandte Chemie - International Edition, 2021, 60, 23380-23387.	13.8	47
12	Cation-Exchange-Induced Metal and Alloy Dual-Exsolution in Perovskite Ferrite Oxides Boosting the Performance of Li-O ₂ Battery. Angewandte Chemie, 2021, 133, 23568-23575.	2.0	11
13	Manipulating Surface Termination of Perovskite Manganate for Oxygen Activation. Advanced Functional Materials, 2021, 31, 2006439.	14.9	18
14	Raw cellulose/polyvinyl alcohol blending separators prepared by phase inversion for high-performance supercapacitors. Nanotechnology, 2021, 32, 095403.	2.6	14
15	Surface Reconstruction of a Mullite-Type Catalyst via Selective Dissolution for NO Oxidation. ACS Catalysis, 2021, 11, 14507-14520.	11.2	27
16	Two-dimensional materials for electrochemical CO ₂ reduction: materials, in situ characterizations, and perspective. Nanoscale, 2021, 13, 19712-19739.	5.6	18
17	Role of double interfaces in inspiring energy storage devices in CC@Ni(OH)Cl@NiO flexible electrodes. Materials Chemistry Frontiers, 2020, 4, 231-242.	5.9	5
18	Highly Efficient B-Site Exsolution Assisted by Co Doping in Lanthanum Ferrite toward High-Performance Electrocatalysts for Oxygen Evolution and Oxygen Reduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 302-310.	6.7	48

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19	In Situ Growth of Amorphous NiFe Hydroxides on Spinel NiFe ₂ O ₄ via Ultrasonic-Assisted Reduction for an Enhanced Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 17194-17200.	6.7	23
20	Jahn-Teller Disproportionation Induced Exfoliation of Unit-Cell Scale $\mu\text{-MnO}_2$. Angewandte Chemie - International Edition, 2020, 59, 22659-22666.	13.8	26
21	Jahn-Teller Disproportionation Induced Exfoliation of Unit-Cell Scale $\mu\text{-MnO}_2$. Angewandte Chemie, 2020, 132, 22848-22855.	2.0	4
22	Optimizing the surface state of cobalt-iron bimetallic phosphide <i>via</i> regulating phosphorus vacancies. Chemical Communications, 2020, 56, 2602-2605.	4.1	29
23	A symbiotic hetero-nanocomposite that stabilizes unprecedented CaCl ₂ -type TiO ₂ for enhanced solar-driven hydrogen evolution reaction. Chemical Science, 2019, 10, 8323-8330.	7.4	14
24	Silver-Intermediated Perovskite La _{0.9} FeO ₃ toward High-Performance Cathode Catalysts for Nonaqueous Lithium-Oxygen Batteries. ACS Catalysis, 2019, 9, 11743-11752.	11.2	46
25	Atomic-Scale Insights into Surface Lattice Oxygen Activation at the Spinel/Perovskite interface of Co ₃ O ₄ /La _{0.3} Sr _{0.7} CoO ₃ . Angewandte Chemie - International Edition, 2019, 58, 11720-11725.	13.8	140
26	Atomic-Scale Insights into Surface Lattice Oxygen Activation at the Spinel/Perovskite interface of Co ₃ O ₄ /La _{0.3} Sr _{0.7} CoO ₃ . Angewandte Chemie, 2019, 131, 11846-11851.	2.0	26
27	Black Phosphorus-Modified Co ₃ O ₄ through Tuning the Electronic Structure for Enhanced Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 17459-17466.	8.0	87
28	Remarkable Improvement in Photocatalytic Performance for Tannery Wastewater Processing via SnS ₂ Modified with N-Doped Carbon Quantum Dots: Synthesis, Characterization, and 4-Nitrophenol-Aided Cr(VI) Photoreduction. Small, 2019, 15, e1804515.	10.0	44
29	Optimized Co ²⁺ (Td)-O ²⁻ Fe ³⁺ (Oh) electronic states in a spinel electrocatalyst for highly efficient oxygen evolution reaction performance. Inorganic Chemistry Frontiers, 2019, 6, 3295-3301.	6.0	29
30	Integrating Catalysis of Methane Decomposition and Electrocatalytic Hydrogen Evolution with Ni/CeO ₂ for Improved Hydrogen Production Efficiency. ChemSusChem, 2019, 12, 1000-1010.	6.8	58
31	Hollow-Structured Metal Oxides as Oxygen-Related Catalysts. Advanced Materials, 2019, 31, e1801430.	21.0	99
32	Co ₃ O ₄ -CuCoO ₂ Nanomesh: An Interface-Enhanced Substrate that Simultaneously Promotes CO Adsorption and O ₂ Activation in H ₂ Purification. ACS Applied Materials & Interfaces, 2019, 11, 6042-6053.	8.0	55
33	Architecture of Biomimetic Water Oxidation Catalyst with Mn ₄ CaO ₅ Clusterlike Structure Unit. ACS Applied Materials & Interfaces, 2018, 10, 37948-37954.	8.0	14
34	Crystal Growth of Bimetallic Oxides CuMnO ₂ with Tailored Valence States for Optimum Electrochemical Energy Storage. Crystal Growth and Design, 2018, 18, 6107-6116.	3.0	28
35	Activation of Surface Oxygen Sites in a Cobalt-Based Perovskite Model Catalyst for CO Oxidation. Journal of Physical Chemistry Letters, 2018, 9, 4146-4154.	4.6	67
36	Coordination of Atomic Co-Pt Coupling Species at Carbon Defects as Active Sites for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2018, 140, 10757-10763.	13.7	464

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37	Molten Salt Flux Synthesis, Crystal Facet Design, Characterization, Electronic Structure, and Catalytic Properties of Perovskite Cobaltite. ACS Applied Materials & Interfaces, 2018, 10, 28219-28231.	8.0	46
38	Cation Segregation of A-Site Deficiency Perovskite $\text{La}_{0.85}\text{FeO}_3$ Nanoparticles toward High-Performance Cathode Catalysts for Rechargeable Li-O_2 Battery. ACS Applied Materials & Interfaces, 2018, 10, 25465-25472.	8.0	31
39	Composition-controlled synthesis of $\text{Ni}_2\text{Co}_x\text{P}$ nanocrystals as bifunctional catalysts for water splitting. RSC Advances, 2017, 7, 7906-7913.	3.6	24
40	Mechanistic Origin of Enhanced CO Catalytic Oxidation over $\text{Co}_3\text{O}_4/\text{LaCoO}_3$ at Lower Temperature. ChemCatChem, 2017, 9, 3102-3106.	3.7	28
41	Defect Engineering, Electronic Structure, and Catalytic Properties of Perovskite Oxide $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$. Chemistry - A European Journal, 2017, 23, 1093-1100.	3.3	37
42	Engineering the surface of perovskite $\text{La}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ for catalytic activity of CO oxidation. Chemical Communications, 2014, 50, 9200-9203.	4.1	84
43	Cation/Anion-Based Physicochemical Mechanisms for Anodically Coloring Electrochromic Nickel Oxide Thin Films. ChemElectroChem, 0, , .	3.4	1
44	Electron transfer in $\text{Cu}/\text{Cu}_2\text{O}$ generated by disproportionation promoting efficient CO_2 photoreduction. Nano Research, 0, , .	10.4	9
45	Modulating Ti $3d$ Orbital Occupancy in a Cu/TiO_2 Composite for Selective Photocatalytic CO_2 Reduction to CO. Angewandte Chemie, 0, , .	2.0	1