

Xiaobo Chen

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

799
citations

759233

12
h-index

610901

24
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26
all docs

26
docs citations

26
times ranked

1079
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions of fungi with concrete: Significant importance for bio-based self-healing concrete. <i>Construction and Building Materials</i> , 2018, 164, 275-285.	7.2	110
2	Effects of Zr Doping into Ceria for the Dry Reforming of Methane over Ni/CeZrO ₂ Catalysts: In Situ Studies with XRD, XAFS, and AP-XPS. <i>ACS Catalysis</i> , 2020, 10, 3274-3284.	11.2	107
3	Screening of Fungi for Potential Application of Self-Healing Concrete. <i>Scientific Reports</i> , 2019, 9, 2075.	3.3	81
4	In Situ Transmission Electron Microscopy on Energy-Related Catalysis. <i>Advanced Energy Materials</i> , 2020, 10, 1902105.	19.5	78
5	Modulating the electronic structure of ultrathin layered double hydroxide nanosheets with fluorine: an efficient electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14483-14488.	10.3	73
6	Defects-Induced In-Plane Heterophase in Cobalt Oxide Nanosheets for Oxygen Evolution Reaction. <i>Small</i> , 2019, 15, e1904903.	10.0	69
7	Synthesis of Core@Shell Cu@Ni@Pt-Cu Nano-Octahedra and Their Improved MOR Activity. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7675-7680.	13.8	58
8	Reactions of CO ₂ and ethane enable CO bond insertion for production of C ₃ oxygenates. <i>Nature Communications</i> , 2020, 11, 1887.	12.8	49
9	Atomic-Scale Mechanism of Unidirectional Oxide Growth. <i>Advanced Functional Materials</i> , 2020, 30, 1906504.	14.9	30
10	Surface-reaction induced structural oscillations in the subsurface. <i>Nature Communications</i> , 2020, 11, 305.	12.8	27
11	General Descriptors for CO ₂ -Assisted Selective C-H/C-C Bond Scission in Ethane. <i>Journal of the American Chemical Society</i> , 2022, 144, 4186-4195.	13.7	26
12	Quinary Defect-Rich Ultrathin Bimetal Hydroxide Nanosheets for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44018-44025.	8.0	15
13	Atomic Origin of the Autocatalytic Reduction of Monoclinic CuO in a Hydrogen Atmosphere. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9547-9556.	4.6	12
14	Atomic-scale phase separation induced clustering of solute atoms. <i>Nature Communications</i> , 2020, 11, 3934.	12.8	11
15	Composition-dependent ordering transformations in Pt-Fe nanoalloys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117899119.	7.1	10
16	<i>In situ</i> atomic-scale observation of inhomogeneous oxide reduction. <i>Chemical Communications</i> , 2018, 54, 7342-7345.	4.1	8
17	Catalytic Tandem CO ₂ -Ethane Reactions and Hydroformylation for C ₃ Oxygenate Production. <i>ACS Catalysis</i> , 2022, 12, 8279-8290.	11.2	8
18	Synthesis of Core@Shell Cu@Ni@Pt-Cu Nano-Octahedra and Their Improved MOR Activity. <i>Angewandte Chemie</i> , 2021, 133, 7753-7758.	2.0	6

#	ARTICLE	IF	CITATIONS
19	Facet-dependent Catalysis of CuNi Nanocatalysts toward 4-Nitrophenol Reduction Reaction. MRS Advances, 2020, 5, 1491-1496.	0.9	5
20	Effect of surface steps on chemical ordering in the subsurface of Cu(Au) solid solutions. Physical Review B, 2021, 103, .	3.2	5
21	Passive Oxide Film Growth Observed On the Atomic Scale. Advanced Materials Interfaces, 2022, 9, .	3.7	4
22	Molybdenum oxide nanoporous asymmetric membranes for high-capacity lithium ion battery anode. Journal of Materials Research, 2022, 37, 2204-2215.	2.6	3
23	In-situ Atomic-scale Visualization of Autocatalytic Reduction of CuO with H ₂ . Microscopy and Microanalysis, 2020, 26, 3048-3050.	0.4	2
24	Atomic-Scale Mechanism of Unidirectional Oxide Growth. Advanced Functional Materials, 2019, 30, .	14.9	2
25	In-situ Atomic-Resolution Observations of Oxide-Reduction Induced Formation of Nano-Holes in Cu ₂ O Thin Films. Microscopy and Microanalysis, 2018, 24, 1816-1817.	0.4	0