

Gao xiangxiang

List of Publications by Citations

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45
papers

3,251
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48
ext. papers

4,062
ext. citations

9
avg, IF

5.37
L-index

#	Paper	IF	Citations
45	Tuning Electronic Structure of NiFe Layered Double Hydroxides with Vanadium Doping toward High Efficient Electrocatalytic Water Oxidation. <i>Advanced Energy Materials</i> , 2018 , 8, 1703341	21.8	362
44	Single-Crystalline Ultrathin Co ₃ O ₄ Nanosheets with Massive Vacancy Defects for Enhanced Electrocatalysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1701694	21.8	322
43	Boosting oxygen evolution of single-atomic ruthenium through electronic coupling with cobalt-iron layered double hydroxides. <i>Nature Communications</i> , 2019 , 10, 1711	17.4	271
42	Trinary Layered Double Hydroxides as High-Performance Bifunctional Materials for Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2015 , 5, 1500245	21.8	265
41	Ternary NiFeMn layered double hydroxides as highly-efficient oxygen evolution catalysts. <i>Chemical Communications</i> , 2016 , 52, 908-11	5.8	230
40	Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6624-6629	11.5	223
39	Single-Crystalline Ultrathin Nickel Nanosheets Array from In Situ Topotactic Reduction for Active and Stable Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 693-7	16.4	182
38	Introducing Fe into Nickel-Iron Layered Double Hydroxide: Local Structure Modulated Water Oxidation Activity. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9392-9396	16.4	181
37	Phosphorus oxoanion-intercalated layered double hydroxides for high-performance oxygen evolution. <i>Nano Research</i> , 2017 , 10, 1732-1739	10	103
36	A 3D Nanoporous NiMo Electrocatalyst with Negligible Overpotential for Alkaline Hydrogen Evolution. <i>ChemElectroChem</i> , 2014 , 1, 1138-1144	4.3	94
35	Effects of redox-active interlayer anions on the oxygen evolution reactivity of NiFe-layered double hydroxide nanosheets. <i>Nano Research</i> , 2018 , 11, 1358-1368	10	93
34	Layered double hydroxides with atomic-scale defects for superior electrocatalysis. <i>Nano Research</i> , 2018 , 11, 4524-4534	10	86
33	Hierarchical nanoarray materials for advanced nickel/zinc batteries. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 184-187	6.8	72
32	Room-temperature synthetic NiFe layered double hydroxide with different anions intercalation as an excellent oxygen evolution catalyst. <i>RSC Advances</i> , 2015 , 5, 55131-55135	3.7	62
31	NiTi layered double hydroxide thin films for advanced pseudocapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10655	13	62
30	Introducing Fe ²⁺ into Nickel/Iron Layered Double Hydroxide: Local Structure Modulated Water Oxidation Activity. <i>Angewandte Chemie</i> , 2018 , 130, 9536-9540	3.6	61
29	Atomically Dispersed Nickel(I) on an Alloy-Encapsulated Nitrogen-Doped Carbon Nanotube Array for High-Performance Electrochemical CO Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12055-12061	16.4	56

28	Au/NiCo ₂ O ₄ Arrays with High Activity for Water Oxidation. <i>ChemCatChem</i> , 2014 , 6, 2501-2506	5.2	53
27	A First-Principles Study of Oxygen Formation Over NiFe-Layered Double Hydroxides Surface. <i>Catalysis Letters</i> , 2015 , 145, 1541-1548	2.8	49
26	A highly-efficient oxygen evolution electrode based on defective nickel-iron layered double hydroxide. <i>Science China Materials</i> , 2018 , 61, 939-947	7.1	48
25	Hollow Mesoporous Metal-Organic Frameworks with Enhanced Diffusion for Highly Efficient Catalysis. <i>ACS Catalysis</i> , 2020 , 10, 5973-5978	13.1	36
24	Amorphous Ruthenium-Sulfide with Isolated Catalytic Sites for Pt-Like Electrocatalytic Hydrogen Production Over Whole pH Range. <i>Small</i> , 2019 , 15, e1904043	11	35
23	Inductive Effect in Mn-Doped NiO Nanosheet Arrays for Enhanced Capacitive and Highly Stable Hybrid Supercapacitor. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2072-2079	6.1	33
22	Single-Crystalline Ultrathin Nickel Nanosheets Array from In Situ Topotactic Reduction for Active and Stable Electrocatalysis. <i>Angewandte Chemie</i> , 2016 , 128, 703-707	3.6	31
21	Topotactic reduction of layered double hydroxides for atomically thick two-dimensional non-noble-metal alloy. <i>Nano Research</i> , 2017 , 10, 2988-2997	10	29
20	Local Electric Field Effect of TMI (Fe, Co, Cu)-BEA on N ₂ O Direct Dissociation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10944-10956	3.8	24
19	Dehydrated layered double hydroxides: Alcohothermal synthesis and oxygen evolution activity. <i>Nano Research</i> , 2016 , 9, 3152-3161	10	24
18	Carbon coated Au/TiO ₂ mesoporous microspheres: a novel selective photocatalyst. <i>Science China Materials</i> , 2017 , 60, 438-448	7.1	22
17	Density Functional Theory Study of Mechanism of N ₂ O Decomposition over Cu-ZSM-5 Zeolites. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20262-20268	3.8	22
16	Atomically Dispersed Nickel(I) on an Alloy-Encapsulated Nitrogen-Doped Carbon Nanotube Array for High-Performance Electrochemical CO ₂ Reduction Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 12153-12159	3.6	19
15	Theoretical study of N ₂ O decomposition mechanism over binuclear Cu-ZSM-5 zeolites. <i>Journal of Molecular Catalysis A</i> , 2015 , 396, 181-187		14
14	First-Principles Study of Oxygen Evolution Reaction on the Oxygen-Containing Species Covered Coll-Exposing Co ₃ O ₄ (100) Surface. <i>Catalysis Letters</i> , 2015 , 145, 1169-1176	2.8	13
13	Investigation for the synthesis of hierarchical Co ₃ O ₄ @MnO ₂ nanoarrays materials and their application for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 1281-1287	2.1	12
12	Morphology and Phase Evolution of CoAl Layered Double Hydroxides in an Alkaline Environment with Enhanced Pseudocapacitive Performance. <i>ChemElectroChem</i> , 2015 , 2, 679-683	4.3	12
11	A multiphase nickel iron sulfide hybrid electrode for highly active oxygen evolution. <i>Science China Materials</i> , 2020 , 63, 356-363	7.1	12

10	Synthesis and performance optimization of ultrathin two-dimensional CoFePt alloy materials via in situ topotactic conversion for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9517-9522	13	11
9	Microenvironment Engineering of Ru Single-Atom Catalysts by Regulating the Cation Vacancies in NiFe-Layered Double Hydroxides. <i>Advanced Functional Materials</i> , 2021 , 11, 2109218	15.6	6
8	Ar/H ₂ /O ₂ -Controlled Growth Thermodynamics and Kinetics to Create Zero-, One-, and Two-Dimensional Ruthenium Nanocrystals towards Acidic Overall Water Splitting. <i>Advanced Functional Materials</i> , 2021 , 31, 2007344	15.6	6
7	Noise-induced effective oscillation in oil-water membrane oscillator. <i>Journal of Chemical Physics</i> , 2008 , 129, 194902	3.9	5
6	Electrochemical heavy metal removal from water using PVC waste-derived N, S co-doped carbon materials.. <i>RSC Advances</i> , 2020 , 10, 4064-4070	3.7	5
5	A 3D Nanoporous NiMo Electrocatalyst with Negligible Overpotential for Alkaline Hydrogen Evolution. <i>ChemElectroChem</i> , 2014 , 1, 1089-1089	4.3	1
4	Effect of internal noise on the oscillation of N ₂ O decomposition over Cu-ZSM-5 zeolites using a stochastic description. <i>Journal of Chemical Physics</i> , 2014 , 140, 044715	3.9	1
3	First-principles study of N ₂ O decomposition on (001) facet of perovskite LaBO ₃ (B = Mn, Co, Ni). <i>Molecular Catalysis</i> , 2021 , 510, 111713	3.3	0
2	Facet effect of Bi ₅ O ₇ I nanocrystals on selective oxidation of benzylamine under visible light. <i>Catalysis Science and Technology</i> ,	5.5	0
1	Hydrogen Production: Amorphous Ruthenium-Sulfide with Isolated Catalytic Sites for Pt-Like Electrocatalytic Hydrogen Production Over Whole pH Range (Small 46/2019). <i>Small</i> , 2019 , 15, 1970249	11	11