Yun Kuang

List of Publications by Year
in descending order

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79 papers	8,111 citations	57758 44 h-index	64796 79 g-index
81 all docs	81 docs citations	81 times ranked	9301 citing authors

#	Article	IF	Citations
1	First-principles study of the oxygen evolution reaction on Ni3Fe-layered double hydroxides surfaces with varying sulfur coverage. Molecular Catalysis, 2022, 519, 112116.	2.0	1
2	3D printed hierarchical spinel monolithic catalysts for highly efficient semi-hydrogenation of acetylene. Nano Research, 2022, 15, 6010-6018.	10.4	8
3	Layered double hydroxide-based electrocatalysts for the oxygen evolution reaction: identification and tailoring of active sites, and superaerophobic nanoarray electrode assembly. Chemical Society Reviews, 2021, 50, 8790-8817.	38.1	331
4	Selective and High Current CO₂ Electro-Reduction to Multicarbon Products in Near-Neutral KCl Electrolytes. Journal of the American Chemical Society, 2021, 143, 3245-3255.	13.7	108
5	Rare-earth-regulated Ru-O interaction within the pyrochlore ruthenate for electrocatalytic oxygen evolution in acidic media. Science China Materials, 2021, 64, 1653-1661.	6.3	27
6	Iridium in Tungsten Trioxide Matrix as an Efficient Biâ€Functional Electrocatalyst for Overall Water Splitting in Acidic Media. Small, 2021, 17, e2102078.	10.0	28
7	MoSx microgrid electrodes with geometric jumping effect for enhancing hydrogen evolution efficiency. Science China Materials, 2021, 64, 892-898.	6.3	3
8	A multiphase nickel iron sulfide hybrid electrode for highly active oxygen evolution. Science China Materials, 2020, 63, 356-363.	6.3	23
9	Synthesis and Properties of Stable Sub-2-nm-Thick Aluminum Nanosheets: Oxygen Passivation and Two-Photon Luminescence. CheM, 2020, 6, 448-459.	11.7	15
10	An Artificial Electrode/Electrolyte Interface for CO₂ Electroreduction by Cation Surfactant Selfâ€Assembly. Angewandte Chemie - International Edition, 2020, 59, 19095-19101.	13.8	71
11	An Artificial Electrode/Electrolyte Interface for CO₂ Electroreduction by Cation Surfactant Selfâ€Assembly. Angewandte Chemie, 2020, 132, 19257-19263.	2.0	45
12	Understanding of Dynamic Contacting Behaviors of Underwater Gas Bubbles on Solid Surfaces. Langmuir, 2020, 36, 11422-11428.	3.5	7
13	Antibuoyancy and Unidirectional Gas Evolution by Janus Electrodes with Asymmetric Wettability. ACS Applied Materials & Interfaces, 2020, 12, 23627-23634.	8.0	29
14	Microwave chemistry, recent advancements, and eco-friendly microwave-assisted synthesis of nanoarchitectures and their applications: a review. Materials Today Nano, 2020, 11, 100076.	4.6	154
15	Electroreduction of CO₂ to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency. Journal of the American Chemical Society, 2020, 142, 7276-7282.	13.7	165
16	Recent Advances in Nonâ€Precious Metalâ€Based Electrodes for Alkaline Water Electrolysis. ChemNanoMat, 2020, 6, 336-355.	2.8	92
17	Common-Ion Effect Triggered Highly Sustained Seawater Electrolysis with Additional NaCl Production. Research, 2020, 2020, 2872141.	5.7	28
18	Zn Doped NiMn-Layered Double Hydroxide for High Performance Niâ€“Zn Battery. Journal of the Electrochemical Society, 2020, 167, 160550.	2.9	4

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19	Hierarchical cobalt oxide@Nickel-vanadium layer double hydroxide core/shell nanowire arrays with enhanced areal specific capacity for nickelâ€“zinc batteries. Journal of Power Sources, 2019, 436, 226867.	7.8	48
20	A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte. Nature Communications, 2019, 10, 3302.	12.8	173
21	Amorphous Rutheniumâ€Sulfide with Isolated Catalytic Sites for Ptâ€Like Electrocatalytic Hydrogen Production Over Whole pH Range. Small, 2019, 15, e1904043.	10.0	71
22	Hydrogen Production: Amorphous Rutheniumâ€Sulfide with Isolated Catalytic Sites for Ptâ€Like Electrocatalytic Hydrogen Production Over Whole pH Range (Small 46/2019). Small, 2019, 15, 1970249.	10.0	0
23	Constructing Earthâ€abundant 3D Nanoarrays for Efficient Overall Water Splitting â€“ A Review. ChemCatChem, 2019, 11, 1550-1575.	3.7	108
24	Superaerophilic copper nanowires for efficient and switchable CO₂ electroreduction. Nanoscale Horizons, 2019, 4, 490-494.	8.0	39
25	Engineering Interfacial Aerophilicity of Nickel-Embedded Nitrogen-Doped CNTs for Electrochemical CO₂ Reduction. ACS Applied Energy Materials, 2019, 2, 3991-3998.	5.1	23
26	Enhancing oxygen evolution reaction by cationic surfactants. Nano Research, 2019, 12, 2302-2306.	10.4	28
27	Synthesis and performance optimization of ultrathin two-dimensional CoFePt alloy materials via in situ topotactic conversion for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 9517-9522.	10.3	17
28	Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6624-6629.	7.1	524
29	A general route via formamide condensation to prepare atomically dispersed metalâ€“nitrogenâ€“carbon electrocatalysts for energy technologies. Energy and Environmental Science, 2019, 12, 1317-1325.	30.8	290
30	Morphology effects of bismuth catalysts on electroreduction of carbon dioxide into formate. Electrochimica Acta, 2019, 305, 388-393.	5.2	34
31	Boosting oxygen evolution of single-atomic ruthenium through electronic coupling with cobalt-iron layered double hydroxides. Nature Communications, 2019, 10, 1711.	12.8	446
32	An electrodeposition approach to metal/metal oxide heterostructures for active hydrogen evolution catalysts in near-neutral electrolytes. Nano Research, 2019, 12, 1431-1435.	10.4	31
33	Breaking the symmetry: Gradient in NiFe layered double hydroxide nanoarrays for efficient oxygen evolution. Nano Energy, 2019, 60, 661-666.	16.0	52
34	Highly active oxygen evolution integrated with efficient CO ₂ to CO electroreduction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23915-23922.	7.1	58
35	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. Angewandte Chemie, 2019, 131, 746-750.	2.0	55
36	Selectivity regulation of CO2 electroreduction through contact interface engineering on superwetting Cu nanoarray electrodes. Nano Research, 2019, 12, 345-349.	10.4	80

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37	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. Angewandte Chemie - International Edition, 2019, 58, 736-740.	13.8	335
38	Janus electrode with simultaneous management on gas and liquid transport for boosting oxygen reduction reaction. Nano Research, 2019, 12, 177-182.	10.4	43
39	Tuning Electronic Structure of NiFe Layered Double Hydroxides with Vanadium Doping toward High Efficient Electrocatalytic Water Oxidation. Advanced Energy Materials, 2018, 8, 1703341.	19.5	505
40	Understanding the incorporating effect of Co2+/Co3+ in NiFe-layered double hydroxide for electrocatalytic oxygen evolution reaction. Journal of Catalysis, 2018, 358, 100-107.	6.2	194
41	Layered double hydroxides with atomic-scale defects for superior electrocatalysis. Nano Research, 2018, 11, 4524-4534.	10.4	130
42	Singleâ€Crystalline Ultrathin Co₃O₄ Nanosheets with Massive Vacancy Defects for Enhanced Electrocatalysis. Advanced Energy Materials, 2018, 8, 1701694.	19.5	451
43	NiCoFeâ€Layered Double Hydroxides/Nâ€Doped Graphene Oxide Array Colloid Composite as an Efficient Bifunctional Catalyst for Oxygen Electrocatalytic Reactions. Advanced Energy Materials, 2018, 8, 1701905.	19.5	276
44	Effects of redox-active interlayer anions on the oxygen evolution reactivity of NiFe-layered double hydroxide nanosheets. Nano Research, 2018, 11, 1358-1368.	10.4	134
45	Boosting oxygen reaction activity by coupling sulfides for high-performance rechargeable metalâ€“air battery. Journal of Materials Chemistry A, 2018, 6, 21162-21166.	10.3	38
46	Introducing Fe²⁺ into Nickelâ€“Iron Layered Double Hydroxide: Local Structure Modulated Water Oxidation Activity. Angewandte Chemie, 2018, 130, 9536-9540.	2.0	86
47	Introducing Fe²⁺ into Nickelâ€“Iron Layered Double Hydroxide: Local Structure Modulated Water Oxidation Activity. Angewandte Chemie - International Edition, 2018, 57, 9392-9396.	13.8	284
48	Bright quantum dots emitting at â¼1,600 nm in the NIR-IIb window for deep tissue fluorescence imaging. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6590-6595.	7.1	310
49	Phosphorus oxoanion-intercalated layered double hydroxides for high-performance oxygen evolution. Nano Research, 2017, 10, 1732-1739.	10.4	139
50	Topotactic reduction of layered double hydroxides for atomically thick two-dimensional non-noble-metal alloy. Nano Research, 2017, 10, 2988-2997.	10.4	38
51	Single Crystalline Ultrathin Nickelâ€“Cobalt Alloy Nanosheets Array for Direct Hydrazine Fuel Cells. Advanced Science, 2017, 4, 1600179.	11.2	104
52	Superaerophobic Ultrathin Niâ€“Mo Alloy Nanosheet Array from In Situ Topotactic Reduction for Hydrogen Evolution Reaction. Small, 2017, 13, 1701648.	10.0	190
53	Unconventional Carbon: Alkaline Dehalogenation of Polymers Yields Nâ€Doped Carbon Electrode for Highâ€Performance Capacitive Energy Storage. Advanced Functional Materials, 2016, 26, 3340-3348.	14.9	95
54	Probing the seeded protocol for high-concentration preparation of silver nanowires. Nano Research, 2016, 9, 1532-1542.	10.4	25

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55	ZnO-promoted dechlorination for hierarchically nanoporous carbon as superior oxygen reduction electrocatalyst. Nano Energy, 2016, 26, 241-247.	16.0	72
56	Universal Parameter Optimization of Density Gradient Ultracentrifugation Using CdSe Nanoparticles as Tracing Agents. Analytical Chemistry, 2016, 88, 8495-8501.	6.5	11
57	Amorphous Coâ€“Moâ€“S ultrathin films with low-temperature sulfurization as high-performance electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 13731-13735.	10.3	48
58	Ternary NiCoP nanosheet arrays: An excellent bifunctional catalyst for alkaline overall water splitting. Nano Research, 2016, 9, 2251-2259.	10.4	342
59	High-Performance Water Electrolysis System with Double Nanostructured Superaerophobic Electrodes. Small, 2016, 12, 2492-2498.	10.0	113
60	Singleâ€Crystalline Ultrathin Nickel Nanosheets Array from Inâ€…Situ Topotactic Reduction for Active and Stable Electrocatalysis. Angewandte Chemie - International Edition, 2016, 55, 693-697.	13.8	225
61	Superior anti-CO poisoning capability: Au-decorated PtFe nanocatalysts for high-performance methanol oxidation. Chemical Communications, 2016, 52, 3903-3906.	4.1	57
62	Characterization of exosomes derived from ovarian cancer cells and normal ovarian epithelial cells by nanoparticle tracking analysis. Tumor Biology, 2016, 37, 4213-4221.	1.8	74
63	Development of hydrophilicity gradient ultracentrifugation method for photoluminescence investigation of separated non-sedimental carbon dots. Nano Research, 2015, 8, 2810-2821.	10.4	49
64	Rational design of graphene oxide and its hollow CoO composite for superior oxygen reduction reaction. Science China Materials, 2015, 58, 534-542.	6.3	30
65	Separation of colloidal two dimensional materials by density gradient ultracentrifugation. Journal of Solid State Chemistry, 2015, 224, 120-126.	2.9	7
66	Controllable Assembly and Separation of Colloidal Nanoparticles through a Oneâ€Tube Synthesis Based on Density Gradient Centrifugation. Chemistry - A European Journal, 2015, 21, 7211-7216.	3.3	11
67	Single-crystalline dendritic bimetallic and multimetallic nanocubes. Chemical Science, 2015, 6, 7122-7129.	7.4	61
68	Three-dimensional porous superaerophobic nickel nanoflower electrodes for high-performance hydrazine oxidation. Nano Research, 2015, 8, 3365-3371.	10.4	70
69	Hierarchically porous indium oxide nanolamellas with ten-parts-per-billion-level formaldehyde-sensing performance. Sensors and Actuators B: Chemical, 2015, 206, 714-720.	7.8	31
70	Ultrathin branched PtFe and PtRuFe nanodendrites with enhanced electrocatalytic activity. Journal of Materials Chemistry A, 2015, 3, 1182-1187.	10.3	65
71	Solvent switching and purification of colloidal nanoparticles through water/oil Interfaces within a density gradient. Nano Research, 2014, 7, 1670-1679.	10.4	8
72	Ultrathin Dendritic Pt₃Cu Triangular Pyramid Caps with Enhanced Electrocatalytic Activity. ACS Applied Materials & Interfaces, 2014, 6, 17748-17752.	8.0	69

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73	Solvothermal synthesis of FeCo nanoparticles for magneto-controllable biocatalysis. RSC Advances, 2014, 4, 11136-11141.	3.6	9
74	Synthesis Mechanism Study of Layered Double Hydroxides Based on Nanoseparation. Inorganic Chemistry, 2013, 52, 8694-8698.	4.0	24
75	Highly controlled bifunctional Ag@rubrene coreâ€“shell nanostructures: surface-enhanced fluorescence and Raman scattering. Journal of Materials Chemistry C, 2013, 1, 4146.	5.5	12
76	Mesoporous assembled SnO2 nanospheres: Controlled synthesis, structural analysis and ethanol sensing investigation. Sensors and Actuators B: Chemical, 2013, 181, 629-636.	7.8	21
77	Ultrashort Single-Walled Carbon Nanotubes: Density Gradient Separation, Optical Property, and Mathematical Modeling Study. Journal of Physical Chemistry C, 2012, 116, 24770-24776.	3.1	18
78	Understanding the â€œTailoring Synthesisâ€•of CdS Nanorods by O₂. Inorganic Chemistry, 2012, 51, 1302-1308.	4.0	16
79	Experimental and Mathematical Modeling Studies of the Separation of Zinc Blende and Wurtzite Phases of CdS Nanorods by Density Gradient Ultracentrifugation. ACS Nano, 2011, 5, 3242-3249.	14.6	35