

Kai Huang

List of Publications by Year in descending order

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70
papers

3,197
citations

249298

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175968

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docs citations

71
times ranked

5217
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring manganese oxide nanoplates enhances oxygen evolution catalysis in acid. <i>Journal of Catalysis</i> , 2022, 405, 265-272.	3.1	14
2	PVB coating efficiently improves the high stability of EMI shielding fabric with Cu/Ni. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 71-82.	9.9	18
3	Wet-milling synthesis of immobilized Pt/Ir nanoclusters as promising heterogeneous catalysts. <i>Nano Research</i> , 2022, 15, 3065-3072.	5.8	17
4	Silver nanosheets doped polyvinyl alcohol hydrogel piezoresistive bifunctional sensor with a wide range and high resolution for human motion detection. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1196-1205.	9.9	62
5	Efficient synthesis of sulfur-modified cobalt hydroxide self-supported electrocatalysts for enhanced oxygen evolution. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 2491-2499.	9.9	22
6	Nucleation growth quenching for superior cluster catalysts. <i>Nano Research</i> , 2022, 15, 7933-7939.	5.8	5
7	Ultrafast heating to boost the electrocatalytic activity of iridium towards oxygen evolution reaction. <i>Chemical Communications</i> , 2021, 57, 7830-7833.	2.2	3
8	$\text{Al}_6\text{Li}_0\text{P}_{15}\text{Mn}_0$ substituted layered P_2Na_0 $\text{Al}_{15}\text{Mn}_0$. <i>International Journal of Energy Research</i> , 2021, 45, 11338-11345.	2.2	10
9	Mechanochemical Synthesis of Pt/Nb ₂ CTx MXene Composites for Enhanced Electrocatalytic Hydrogen Evolution. <i>Materials</i> , 2021, 14, 2426.	1.3	15
10	Activity Origin and Catalyst Design Principles for Electrocatalytic Oxygen Evolution on Layered Transition Metal Oxide with Halogen Doping. <i>Small Structures</i> , 2021, 2, 2100069.	6.9	30
11	Molten-salt thermosynthesis of amorphous RuCoFe nanosheets as bifunctional catalysts for electrochemical water splitting. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	5
12	Pd Doped Co ₃ O ₄ Loaded on Carbon Nanofibers as Highly Efficient Free-Standing Electrocatalyst for Oxygen Reduction and Oxygen Evolution Reactions. <i>Frontiers in Chemistry</i> , 2021, 9, 812375.	1.8	2
13	Highly Robust, Flexible, and Large-Scale 3D-Metallized Sponge for High-Performance Electromagnetic Interference Shielding. <i>Advanced Materials Technologies</i> , 2020, 5, 1900761.	3.0	53
14	Boosting the electrochemical performance of mesoporous NiCo ₂ O ₄ oxygen evolution catalysts by facile surface modifying. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	5
15	Annealing-Free Platinum-Cobalt Alloy Nanoparticles on Nitrogen-Doped Mesoporous Carbon with Boosted Oxygen Electroreduction Performance. <i>ChemElectroChem</i> , 2020, 7, 3341-3346.	1.7	6
16	CoO/TiN nanowires array as an effective self-supported catalyst for oxygen evolution reaction. <i>Materials Letters</i> , 2020, 279, 128494.	1.3	0
17	Boosting the Performance of Nitrogen-Doped Mesoporous Carbon Oxygen Electrode with Ultrathin 2D Iron/Cobalt Selenides. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000740.	1.9	11
18	A large-area AgNW-modified textile with high-performance electromagnetic interference shielding. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	58

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19	Rapid Thermal Annealing toward High-Quality 2D Cobalt Fluoride Oxide as an Advanced Oxygen Evolution Electrocatalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 6905-6913.	3.2	54
20	Atomic species derived CoOx clusters on nitrogen doped mesoporous carbon as advanced bifunctional electro-catalysts for Zn-air battery. Energy Storage Materials, 2020, 29, 156-162.	9.5	62
21	Two-dimensional MOF/MOF derivative arrays on nickel foam as efficient bifunctional coupled oxygen electrodes. Chinese Journal of Catalysis, 2020, 41, 1754-1760.	6.9	72
22	Ice as Solid Electrolyte To Conduct Various Kinds of Ions. Angewandte Chemie - International Edition, 2019, 58, 12569-12573.	7.2	54
23	Ice as Solid Electrolyte To Conduct Various Kinds of Ions. Angewandte Chemie, 2019, 131, 12699-12703.	1.6	10
24	A Flexible, Robust, and Gel-Free Electroencephalogram Electrode for Noninvasive Brain-Computer Interfaces. Nano Letters, 2019, 19, 6853-6861.	4.5	131
25	Direct immobilization of an atomically dispersed Pt catalyst by suppressing heterogeneous nucleation at ~ 40 $^{\circ}\text{C}$. Journal of Materials Chemistry A, 2019, 7, 25779-25784.	5.2	61
26	~ 60 $^{\circ}\text{C}$ solution synthesis of atomically dispersed cobalt electrocatalyst with superior performance. Nature Communications, 2019, 10, 606.	5.8	121
27	Ultralow-temperature photochemical synthesis of atomically dispersed Pt catalysts for the hydrogen evolution reaction. Chemical Science, 2019, 10, 2830-2836.	3.7	82
28	Room temperature Mg reduction of TiO_2 : formation mechanism and application in photocatalysis. Chemical Communications, 2019, 55, 7675-7678.	2.2	13
29	Mixed valence CoCuMnOx spinel nanoparticles by sacrificial template method with enhanced ORR performance. Applied Surface Science, 2019, 487, 1145-1151.	3.1	75
30	Ultrafine Fe/Fe ₃ C nanoparticles on nitrogen-doped mesoporous carbon by low-temperature synthesis for highly efficient oxygen reduction. Electrochimica Acta, 2019, 313, 255-260.	2.6	14
31	Hierarchically Porous MgMn ₂ O ₄ Microspheres Assembled with Nanosheets as High Oxygen Reduction Catalyst. Catalysis Letters, 2019, 149, 1903-1910.	1.4	3
32	Room-temperature production of silver-nanofiber film for large-area, transparent and flexible surface electromagnetic interference shielding. Npj Flexible Electronics, 2019, 3, .	5.1	155
33	Boosting the Electrocatalytic Water Oxidation Performance of CoFe ₂ O ₄ Nanoparticles by Surface Defect Engineering. ACS Applied Materials & Interfaces, 2019, 11, 3978-3983.	4.0	76
34	Rational Design of Ultrasmall Au Nanoparticles on Fe via Galvanic Replacement Under ~ 60 $^{\circ}\text{C}$ for Efficient Methanol Oxidation Reaction Catalyst. ACS Applied Energy Materials, 2019, 2, 468-476.	2.5	5
35	Surface Engineering of Perovskite Oxide for Bifunctional Oxygen Electrocatalysis. Small Methods, 2019, 3, 1800279.	4.6	47
36	Hydrothermal two-dimensionalisation to porous ZnCo ₂ O ₄ nanosheets non-platinum ORR catalyst. Micro and Nano Letters, 2019, 14, 665-668.	0.6	2

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37	InnenrÃ¼cktitelbild: Ice Melting to Release Reactants in Solution Syntheses (Angew. Chem. 13/2018). Angewandte Chemie, 2018, 130, 3579-3579.	1.6	1
38	Tuning defects in oxides at room temperature by lithium reduction. Nature Communications, 2018, 9, 1302.	5.8	428
39	Ultrahigh Room-Temperature Photoluminescence from Few to Single Quintuple Layer Bi ₂ Te ₃ Nanosheets. Advanced Optical Materials, 2018, 6, 1701322.	3.6	23
40	Ice Melting to Release Reactants in Solution Syntheses. Angewandte Chemie - International Edition, 2018, 57, 3354-3359.	7.2	36
41	Ice Melting to Release Reactants in Solution Syntheses. Angewandte Chemie, 2018, 130, 3412-3417.	1.6	15
42	Large-area, transferable sub-10 nm polymer membranes at the air-water interface. Nano Research, 2018, 11, 3833-3843.	5.8	2
43	Ultra-low-temperature growth of CdS quantum dots on g-C ₃ N ₄ nanosheets and their photocatalytic performance. Dalton Transactions, 2018, 47, 1417-1421.	1.6	17
44	Ultrathin two-dimensional metals with fully exposed (111) facets. Chemical Communications, 2018, 54, 160-163.	2.2	17
45	Defective molybdenum sulfide quantum dots as highly active hydrogen evolution electrocatalysts. Nano Research, 2018, 11, 751-761.	5.8	83
46	A facile fabrication method for ultrathin NiO/Ni nanosheets as a high-performance electrocatalyst for the oxygen evolution reaction. RSC Advances, 2017, 7, 18539-18544.	1.7	11
47	Flexible Electrodes: Roll-to-Roll Production of Transparent Silver Nanofiber Network Electrodes for Flexible Electrochromic Smart Windows (Adv. Mater. 41/2017). Advanced Materials, 2017, 29, .	11.1	4
48	Roll-to-Roll Production of Transparent Silver Nanofiber Network Electrodes for Flexible Electrochromic Smart Windows. Advanced Materials, 2017, 29, 1703238.	11.1	288
49	Ultrathin Bi Nanosheets with Superior Photoluminescence. Small, 2017, 13, 1701349.	5.2	100
50	Iced photochemical reduction to synthesize atomically dispersed metals by suppressing nanocrystal growth. Nature Communications, 2017, 8, 1490.	5.8	322
51	One-Step Synthesis of Trirutile Oxides ZnBi ₂ O ₆ -Graphene Oxide with Enhanced Photocatalytic Activity. Journal of Nanoscience and Nanotechnology, 2017, 17, 2006-2011.	0.9	1
52	Layer-by-layer self-assembly of graphene-like Co ₃ O ₄ nanosheet/graphene hybrids: Towards high-performance anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2016, 667, 29-35.	2.8	24
53	A novel self-catalytic route to zinc stannate nanowires and cathodoluminescence and electrical transport properties of a single nanowire. Journal of Alloys and Compounds, 2016, 657, 394-399.	2.8	9
54	Porous VOxNy nanoribbons supported on CNTs as efficient and stable non-noble electrocatalysts for the oxygen reduction reaction. Scientific Reports, 2015, 5, 17385.	1.6	21

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55	Graphite Carbon-Supported Mo ₂ C Nanocomposites by a Single-Step Solid State Reaction for Electrochemical Oxygen Reduction. PLoS ONE, 2015, 10, e0138330.	1.1	20
56	Novel graphite-carbon encased tungsten carbide nanocomposites by solid-state reaction and their ORR electrocatalytic performance in alkaline medium. Electrochimica Acta, 2015, 174, 172-177.	2.6	42
57	Novel VN/C nanocomposites as methanol-tolerant oxygen reduction electrocatalyst in alkaline electrolyte. Scientific Reports, 2015, 5, 11351.	1.6	49
58	Tunable Dielectric Properties of Ferrite-Dielectric Based Metamaterial. PLoS ONE, 2015, 10, e0127331.	1.1	7
59	A facile route to reduced graphene oxide-zinc oxide nanorod composites with enhanced photocatalytic activity. Powder Technology, 2014, 257, 113-119.	2.1	81
60	One-step synthesis of reduced graphene oxide-CeO ₂ nanocubes composites with enhanced photocatalytic activity. Materials Letters, 2014, 124, 223-226.	1.3	59
61	Green hydrothermal synthesis of CeO ₂ NWs-reduced graphene oxide hybrid with enhanced photocatalytic activity. Powder Diffraction, 2014, 29, 8-13.	0.4	12
62	Positron annihilation lifetime study of Nafion/titanium dioxide nano-composite membranes. Journal of Power Sources, 2014, 246, 762-766.	4.0	25
63	A facile route to mono-dispersed CeO ₂ nanocubes and their enhanced photocatalytic properties. Materials Letters, 2014, 116, 46-49.	1.3	21
64	Morphology evolution and photoluminescence of barium molybdate controlled by poly (sodium-4-styrenesulfonate). Journal of Alloys and Compounds, 2013, 579, 549-552.	2.8	11
65	Durable platinum/graphene catalysts assisted with polydiallyldimethylammonium for proton-exchange membrane fuel cells. Electrochimica Acta, 2013, 113, 366-372.	2.6	30
66	Morphology evolution of barium oxalate hydrate controlled by poly (sodium-4-styrenesulfonate). Powder Technology, 2013, 249, 140-145.	2.1	2
67	One-dimensional manganese oxide nanostructures as radical scavenger to improve membrane electrolyte assembly durability of proton exchange membrane fuel cells. Journal of Power Sources, 2013, 230, 96-100.	4.0	20
68	Self-assembled mesoporous carbon sensitized with ceria nanoparticles as durable catalyst support for PEM fuel cell. International Journal of Hydrogen Energy, 2013, 38, 205-211.	3.8	24
69	Catalyst-free chemical vapor deposition route to InN nanowires and their cathodoluminescence properties. Journal of Alloys and Compounds, 2012, 535, 50-52.	2.8	16
70	Low-temperature route to dispersed manganese dioxide nanorods. Materials Letters, 2012, 78, 202-204.	1.3	3