

Liang Huang

List of Publications by Year in descending order

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56
papers

4,772
citations

136950

32
h-index

149698

56
g-index

56
all docs

56
docs citations

56
times ranked

5991
citing authors

#	ARTICLE	IF	CITATIONS
1	Bubble-templated synthesis of nanocatalyst Co/C as NADH oxidase mimic. National Science Review, 2022, 9, nwab186.	9.5	25
2	Reversible inhibition of the oxidase-like activity of Fe single-atom nanozymes for drug detection. Chemical Science, 2022, 13, 4566-4572.	7.4	41
3	Interfacial Electron Regulation of Rh Atomic Layer-Decorated SnO ₂ Heterostructures for Enhancing Electrocatalytic Nitrogen Reduction. ACS Applied Materials & Interfaces, 2022, 14, 12304-12313.	8.0	8
4	Additive-Free Ultrastable Hydrated Vanadium Oxide Sol/Carbon Nanotube Ink for Durable and High-Power Aqueous Zinc-Ion Battery. Advanced Materials Interfaces, 2022, 9, .	3.7	3
5	Regulating Interfacial Desolvation and Deposition Kinetics Enables Durable Zn Anodes with Ultrahigh Utilization of 80%. Small, 2022, 18, e2106441.	10.0	51
6	Potential Gradient-Driven Fast-Switching Electrochromic Device. ACS Energy Letters, 2022, 7, 1880-1887.	17.4	28
7	Porous sodium titanate nanofibers for high energy quasi-solid-state sodium-ion hybrid capacitors. Rare Metals, 2022, 41, 2453-2459.	7.1	11
8	Trap-Induced Dense Monocharged Perfluorinated Electret Nanofibers for Recyclable Multifunctional Healthcare Mask. ACS Nano, 2021, 15, 5486-5494.	14.6	41
9	Interfacial Electron Engineering of Palladium and Molybdenum Carbide for Highly Efficient Oxygen Reduction. Journal of the American Chemical Society, 2021, 143, 6933-6941.	13.7	62
10	Bionic design of cytochrome c oxidase-like single-atom nanozymes for oxygen reduction reaction in enzymatic biofuel cells. Nano Energy, 2021, 83, 105798.	16.0	34
11	Rich Alkali Ions Preintercalated Vanadium Oxides for Durable and Fast Zinc-Ion Storage. ACS Energy Letters, 2021, 6, 2111-2120.	17.4	94
12	Glucose-oxidase like catalytic mechanism of noble metal nanozymes. Nature Communications, 2021, 12, 3375.	12.8	163
13	Phase Engineering of Atomically Thin Perovskite Oxide for Highly Active Oxygen Evolution. Advanced Functional Materials, 2021, 31, 2102002.	14.9	37
14	Conversion of CO ₂ to formic acid by integrated all-solar-driven artificial photosynthetic system. Journal of Power Sources, 2021, 512, 230532.	7.8	21
15	Interfacial Engineering Regulates Deposition Kinetics of Zinc Metal Anodes. ACS Applied Energy Materials, 2021, 4, 11743-11751.	5.1	8
16	Self-dissociation-assembly of ultrathin metal-organic framework nanosheet arrays for efficient oxygen evolution. Nano Energy, 2020, 68, 104296.	16.0	95
17	Densely Populated Single Atom Catalysts. Small Methods, 2020, 4, 1900540.	8.6	185
18	A single microbial electrochemical system for CO ₂ reduction and simultaneous biogas purification, upgrading and sulfur recovery. Bioresource Technology, 2020, 297, 122448.	9.6	19

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19	Unveiling the Effects of Alkali Metal Ions Intercalated in Layered MnO ₂ for Formaldehyde Catalytic Oxidation. ACS Catalysis, 2020, 10, 10021-10031.	11.2	102
20	Atomic engineering of single-atom nanozymes for enzyme-like catalysis. Chemical Science, 2020, 11, 9741-9756.	7.4	157
21	Coenzyme-dependent nanozymes playing dual roles in oxidase and reductase mimics with enhanced electron transport. Nanoscale, 2020, 12, 23578-23585.	5.6	15
22	Densely Isolated FeN ₄ Sites for Peroxidase Mimicking. ACS Catalysis, 2020, 10, 6422-6429.	11.2	216
23	A Solvent Molecule Driven Pure PEDOT:PSS Actuator. Macromolecular Materials and Engineering, 2020, 305, 2000327.	3.6	17
24	Salt-Assisted Synthesis of 2D Materials. Advanced Functional Materials, 2020, 30, 1908486.	14.9	115
25	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. Analytical Chemistry, 2020, 92, 3373-3379.	6.5	185
26	Long-term, selective production of caproate in an anaerobic membrane bioreactor. Bioresource Technology, 2020, 302, 122865.	9.6	13
27	Water/Oxygen Circulation-Based Biophotocatalytic System for Solar Energy Storage and Release. Journal of the American Chemical Society, 2019, 141, 16416-16421.	13.7	21
28	Rapid synthesis of size-tunable transition metal carbide nanodots under ambient conditions. Journal of Materials Chemistry A, 2019, 7, 14489-14495.	10.3	22
29	Single-atom nanozymes. Science Advances, 2019, 5, eaav5490.	10.3	615
30	Progressive stress response of the anaerobic granular sludge to nickel nanoparticles: experimental investigations and mathematic modelling. Environmental Science: Nano, 2019, 6, 1536-1548.	4.3	6
31	Stabilization of layered manganese oxide by substitutional cation doping. Journal of Materials Chemistry A, 2019, 7, 7118-7127.	10.3	14
32	Recent progress in the synthesis and applications of 2D metal nanosheets. Nanotechnology, 2019, 30, 222001.	2.6	19
33	Large-scale synthesis of size- and thickness-tunable conducting polymer nanosheets via a salt-templated method. Journal of Materials Chemistry A, 2019, 7, 24929-24936.	10.3	12
34	Boosting the Efficient Energy Output of Electret Nanogenerators by Suppressing Air Breakdown under Ambient Conditions. ACS Applied Materials & Interfaces, 2019, 11, 3984-3989.	8.0	20
35	Synthesis of single crystalline two-dimensional transition-metal phosphides via a salt-templating method. Nanoscale, 2018, 10, 6844-6849.	5.6	61
36	Shape-Control of Pt-Ru Nanocrystals: Tuning Surface Structure for Enhanced Electrocatalytic Methanol Oxidation. Journal of the American Chemical Society, 2018, 140, 1142-1147.	13.7	466

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37	Recovery of high-concentration volatile fatty acids from wastewater using an acidogenesis-electrodialysis integrated system. <i>Bioresource Technology</i> , 2018, 260, 61-67.	9.6	56
38	Modeling of acetate-type fermentation of sugar-containing wastewater under acidic pH conditions. <i>Bioresource Technology</i> , 2018, 248, 148-155.	9.6	12
39	Sulfur dioxide gas-sensitive materials based on zeolitic imidazolate framework-derived carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12115-12124.	10.3	45
40	Distinctive Construction of Chitin-Derived Hierarchically Porous Carbon Microspheres/Polyaniline for High-Rate Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28918-28927.	8.0	78
41	Flexible THV/COC Piezoelectret Nanogenerator for Wide-Range Pressure Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29675-29683.	8.0	21
42	Salt-Templated Synthesis of 2D Metallic MoN and Other Nitrides. <i>ACS Nano</i> , 2017, 11, 2180-2186.	14.6	359
43	High-Index Facets Bounded Platinum-Lead Concave Nanocubes with Enhanced Electrocatalytic Properties. <i>Chemistry of Materials</i> , 2017, 29, 4557-4562.	6.7	80
44	Output enhanced compact multilayer flexible nanogenerator for self-powered wireless remote system. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12787-12792.	10.3	25
45	Nitrogen-doped carbon encapsulating MoC/Ni heterostructures for efficient oxygen evolution electrocatalysts. <i>Nanoscale</i> , 2017, 9, 5583-5588.	5.6	66
46	Highly conductive and flexible molybdenum oxide nanopaper for high volumetric supercapacitor electrode. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2897-2903.	10.3	101
47	Energy Harvest from Organics Degradation by Two-Dimensional K^+ -Intercalated Manganese Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41233-41238.	8.0	8
48	In situ synthesis of ultrathin metal-organic framework nanosheets: a new method for 2D metal-based nanoporous carbon electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18610-18617.	10.3	162
49	Transformation of homobimetallic MOFs into nickel-cobalt phosphide/nitrogen-doped carbon polyhedral nanocages for efficient oxygen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18839-18844.	10.3	99
50	Output optimized electret nanogenerators for self-powered long-distance optical communication systems. <i>Nanoscale</i> , 2017, 9, 18529-18534.	5.6	6
51	$\text{GO}_x@\text{ZIF-8}(\text{NiPd})$ Nanoflower: An Artificial Enzyme System for Tandem Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 16298-16301.	2.0	64
52	$\text{GO}_x@\text{ZIF-8}(\text{NiPd})$ Nanoflower: An Artificial Enzyme System for Tandem Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16082-16085.	13.8	323
53	One-step synthesis of ultrathin Pt_xPb nerve-like nanowires as robust catalysts for enhanced methanol electrooxidation. <i>Nanoscale</i> , 2017, 9, 201-207.	5.6	85
54	Natural Materials Assembled, Biodegradable, and Transparent Paper-Based Electret Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35587-35592.	8.0	74

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55	3D Graphene Aerogels Decorated with Cobalt Phosphide Nanoparticles as Electrocatalysts for the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2016, 9, 3049-3053.	6.8	54
56	Highly-branched mesoporous Au-Pd-Pt trimetallic nanoflowers blooming on reduced graphene oxide as an oxygen reduction electrocatalyst. <i>Chemical Communications</i> , 2016, 52, 8659-8662.	4.1	52