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	Single-atom nanozymes. Science Advances, 2019, 5, eaav5490.	10.3	615
2	Shape-Control of Ptâ€“Ru Nanocrystals: Tuning Surface Structure for Enhanced Electrocatalytic Methanol Oxidation. Journal of the American Chemical Society, 2018, 140, 1142-1147.	13.7	466
3	Salt-Templated Synthesis of 2D Metallic MoN and Other Nitrides. ACS Nano, 2017, 11, 2180-2186.	14.6	359
4	GOx@ZIFâ€8(NiPd) Nanoflower: An Artificial Enzyme System for Tandem Catalysis. Angewandte Chemie - International Edition, 2017, 56, 16082-16085.	13.8	323
5	Densely Isolated FeN₄ Sites for Peroxidase Mimicking. ACS Catalysis, 2020, 10, 6422-6429.	11.2	216
6	Densely Populated Single Atom Catalysts. Small Methods, 2020, 4, 1900540.	8.6	185
7	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. Analytical Chemistry, 2020, 92, 3373-3379.	6.5	185
8	Glucose-oxidase like catalytic mechanism of noble metal nanozymes. Nature Communications, 2021, 12, 3375.	12.8	163
9	In situ synthesis of ultrathin metalâ€“organic framework nanosheets: a new method for 2D metal-based nanoporous carbon electrocatalysts. Journal of Materials Chemistry A, 2017, 5, 18610-18617.	10.3	162
10	Atomic engineering of single-atom nanozymes for enzyme-like catalysis. Chemical Science, 2020, 11, 9741-9756.	7.4	157
11	Saltâ€Assisted Synthesis of 2D Materials. Advanced Functional Materials, 2020, 30, 1908486.	14.9	115
12	Unveiling the Effects of Alkali Metal Ions Intercalated in Layered MnO₂ for Formaldehyde Catalytic Oxidation. ACS Catalysis, 2020, 10, 10021-10031.	11.2	102
13	Highly conductive and flexible molybdenum oxide nanopaper for high volumetric supercapacitor electrode. Journal of Materials Chemistry A, 2017, 5, 2897-2903.	10.3	101
14	Transformation of homobimetallic MOFs into nickelâ€“cobalt phosphide/nitrogen-doped carbon polyhedral nanocages for efficient oxygen evolution electrocatalysis. Journal of Materials Chemistry A, 2017, 5, 18839-18844.	10.3	99
15	Self-dissociation-assembly of ultrathin metal-organic framework nanosheet arrays for efficient oxygen evolution. Nano Energy, 2020, 68, 104296.	16.0	95
16	Rich Alkali Ions Preintercalated Vanadium Oxides for Durable and Fast Zinc-Ion Storage. ACS Energy Letters, 2021, 6, 2111-2120.	17.4	94
17	One-step synthesis of ultrathin Pt_xPb nerve-like nanowires as robust catalysts for enhanced methanol electrooxidation. Nanoscale, 2017, 9, 201-207.	5.6	85
18	High-Index Facets Bounded Platinumâ€“Lead Concave Nanocubes with Enhanced Electrocatalytic Properties. Chemistry of Materials, 2017, 29, 4557-4562.	6.7	80

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19	Distinctive Construction of Chitin-Derived Hierarchically Porous Carbon Microspheres/Polyaniline for High-Rate Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 28918-28927.	8.0	78
20	Natural Materials Assembled, Biodegradable, and Transparent Paper-Based Electret Nanogenerator. ACS Applied Materials & Interfaces, 2016, 8, 35587-35592.	8.0	74
21	Nitrogen-doped carbon encapsulating Î³-MoC/Ni heterostructures for efficient oxygen evolution electrocatalysts. Nanoscale, 2017, 9, 5583-5588.	5.6	66
22	GOx@ZIFâ€8(NiPd) Nanoflower: An Artificial Enzyme System for Tandem Catalysis. Angewandte Chemie, 2017, 129, 16298-16301.	2.0	64
23	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
24	Synthesis of single crystalline two-dimensional transition-metal phosphides via a salt-templating method. Nanoscale, 2018, 10, 6844-6849.	5.6	61
25	Recovery of high-concentration volatile fatty acids from wastewater using an acidogenesis-electrodialysis integrated system. Bioresource Technology, 2018, 260, 61-67.	9.6	56
26	3D Graphene Aerogels Decorated with Cobalt Phosphide Nanoparticles as Electrocatalysts for the Hydrogen Evolution Reaction. ChemSusChem, 2016, 9, 3049-3053.	6.8	54
27	Highly-branched mesoporous Auâ€“Pdâ€“Pt trimetallic nanoflowers blooming on reduced graphene oxide as an oxygen reduction electrocatalyst. Chemical Communications, 2016, 52, 8659-8662.	4.1	52
28	Regulating Interfacial Desolvation and Deposition Kinetics Enables Durable Zn Anodes with Ultrahigh Utilization of 80%. Small, 2022, 18, e2106441.	10.0	51
29	Sulfur dioxide gas-sensitive materials based on zeolitic imidazolate framework-derived carbon nanotubes. Journal of Materials Chemistry A, 2018, 6, 12115-12124.	10.3	45
30	Trap-Induced Dense Monocharged Perfluorinated Electret Nanofibers for Recyclable Multifunctional Healthcare Mask. ACS Nano, 2021, 15, 5486-5494.	14.6	41
31	Reversible inhibition of the oxidase-like activity of Fe single-atom nanozymes for drug detection. Chemical Science, 2022, 13, 4566-4572.	7.4	41
32	Phase Engineering of Atomically Thin Perovskite Oxide for Highly Active Oxygen Evolution. Advanced Functional Materials, 2021, 31, 2102002.	14.9	37
33	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
34	Potential Gradient-Driven Fast-Switching Electrochromic Device. ACS Energy Letters, 2022, 7, 1880-1887.	17.4	28
35	Output enhanced compact multilayer flexible nanogenerator for self-powered wireless remote system. Journal of Materials Chemistry A, 2017, 5, 12787-12792.	10.3	25
36	Bubble-templated synthesis of nanocatalyst Co/C as NADH oxidase mimic. National Science Review, 2022, 9, nwab186.	9.5	25

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37	Rapid synthesis of size-tunable transition metal carbide nanodots under ambient conditions. Journal of Materials Chemistry A, 2019, 7, 14489-14495.	10.3	22
38	Flexible THV/COC Piezoelectret Nanogenerator for Wide-Range Pressure Sensing. ACS Applied Materials & Interfaces, 2018, 10, 29675-29683.	8.0	21
39	Water/Oxygen Circulation-Based Biophotoelectrochemical System for Solar Energy Storage and Release. Journal of the American Chemical Society, 2019, 141, 16416-16421.	13.7	21
40	Conversion of CO2 to formic acid by integrated all-solar-driven artificial photosynthetic system. Journal of Power Sources, 2021, 512, 230532.	7.8	21
41	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
42	Recent progress in the synthesis and applications of 2D metal nanosheets. Nanotechnology, 2019, 30, 222001.	2.6	19
43	A single microbial electrochemical system for CO2 reduction and simultaneous biogas purification, upgrading and sulfur recovery. Bioresource Technology, 2020, 297, 122448.	9.6	19
44	A Solvent Molecule Driven Pure PEDOT:PSS Actuator. Macromolecular Materials and Engineering, 2020, 305, 2000327.	3.6	17
45	Coenzyme-dependent nanozymes playing dual roles in oxidase and reductase mimics with enhanced electron transport. Nanoscale, 2020, 12, 23578-23585.	5.6	15
46	Stabilization of layered manganese oxide by substitutional cation doping. Journal of Materials Chemistry A, 2019, 7, 7118-7127.	10.3	14
47	Long-term, selective production of caproate in an anaerobic membrane bioreactor. Bioresource Technology, 2020, 302, 122865.	9.6	13
48	Modeling of acetate-type fermentation of sugar-containing wastewater under acidic pH conditions. Bioresource Technology, 2018, 248, 148-155.	9.6	12
49	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
50	Porous sodium titanate nanofibers for high energy quasi-solid-state sodium-ion hybrid capacitors. Rare Metals, 2022, 41, 2453-2459.	7.1	11
51	Energy Harvest from Organics Degradation by Two-Dimensional K⁺-Intercalated Manganese Oxide. ACS Applied Materials & Interfaces, 2017, 9, 41233-41238.	8.0	8
52	Interfacial Engineering Regulates Deposition Kinetics of Zinc Metal Anodes. ACS Applied Energy Materials, 2021, 4, 11743-11751.	5.1	8
53	Interfacial Electron Regulation of Rh Atomic Layer-Decorated SnO₂ Heterostructures for Enhancing Electrocatalytic Nitrogen Reduction. ACS Applied Materials & Interfaces, 2022, 14, 12304-12313.	8.0	8
54	Output optimized electret nanogenerators for self-powered long-distance optical communication systems. Nanoscale, 2017, 9, 18529-18534.	5.6	6

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55	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
56	Additiveâ€Free Ultrastable Hydrated Vanadium Oxide Sol/Carbon Nanotube Ink for Durable and Highâ€Power Aqueous Zincâ€Ion Battery. Advanced Materials Interfaces, 2022, 9, .	3.7	3