

Liangsheng Hu

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

4,667
citations

185998

28
h-index

205818

48
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51
all docs

51
docs citations

51
times ranked

5905
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Electrocatalytic Hydrogen Evolution Using Nanoparticles. <i>Chemical Reviews</i> , 2020, 120, 851-918.	23.0	1,767
2	Recent advance in MXenes: A promising 2D material for catalysis, sensor and chemical adsorption. <i>Coordination Chemistry Reviews</i> , 2017, 352, 306-327.	9.5	484
3	Electrochemical CO ₂ reduction (CO ₂ RR) to multi-carbon products over copper-based catalysts. <i>Coordination Chemistry Reviews</i> , 2022, 454, 214340.	9.5	175
4	An antibacterial platform based on capacitive carbon-doped TiO ₂ nanotubes after direct or alternating current charging. <i>Nature Communications</i> , 2018, 9, 2055.	5.8	153
5	Photocatalytic water splitting by N-TiO ₂ on MgO (111) with exceptional quantum efficiencies at elevated temperatures. <i>Nature Communications</i> , 2019, 10, 4421.	5.8	151
6	Hydrogenated V ₂ O ₅ Nanosheets for Superior Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2016, 26, 784-791.	7.8	149
7	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. <i>Nano Energy</i> , 2018, 52, 360-368.	8.2	135
8	Au Nanoparticles Decorated TiO ₂ Nanotube Arrays as a Recyclable Sensor for Photoenhanced Electrochemical Detection of Bisphenol A. <i>Environmental Science & Technology</i> , 2016, 50, 4430-4438.	4.6	124
9	Vanadium carbide nanoparticles encapsulated in graphitic carbon network nanosheets: A high-efficiency electrocatalyst for hydrogen evolution reaction. <i>Nano Energy</i> , 2016, 26, 603-609.	8.2	120
10	In situ segregation of cobalt nanoparticles on VN nanosheets via nitriding of Co ₂ V ₂ O ₇ nanosheets as efficient oxygen evolution reaction electrocatalysts. <i>Nano Energy</i> , 2017, 34, 1-7.	8.2	119
11	Ni-doped amorphous iron phosphide nanoparticles on TiN nanowire arrays: An advanced alkaline hydrogen evolution electrocatalyst. <i>Nano Energy</i> , 2018, 53, 66-73.	8.2	115
12	Synthesis and Photocatalytic Activity of Highly Ordered TiO ₂ and SrTiO ₃ /TiO ₂ Nanotube Arrays on Ti Substrates. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2771-2778.	1.9	108
13	Copper nanoparticles/polyaniline/graphene composite as a highly sensitive electrochemical glucose sensor. <i>Journal of Electroanalytical Chemistry</i> , 2016, 781, 155-160.	1.9	92
14	Novel Cu-Fe bi-metal oxide quantum dots coupled g-C ₃ N ₄ nanosheets with H ₂ O ₂ adsorption-activation trade-off for efficient photo-Fenton catalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120765.	10.8	77
15	Recyclable and High-Sensitivity Electrochemical Biosensing Platform Composed of Carbon-Doped TiO ₂ Nanotube Arrays. <i>Analytical Chemistry</i> , 2011, 83, 8138-8144.	3.2	69
16	One-step growth and field emission properties of quasialigned TiO ₂ nanowire/carbon nanocone core-shell nanostructure arrays on Ti substrates. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	60
17	Direct anodic exfoliation of graphite onto high-density aligned graphene for large capacity supercapacitors. <i>Nano Energy</i> , 2017, 34, 515-523.	8.2	56
18	Cu ₂ ZnSnS ₄ /MoS ₂ -Reduced Graphene Oxide Heterostructure: Nanoscale Interfacial Contact and Enhanced Photocatalytic Hydrogen Generation. <i>Scientific Reports</i> , 2017, 7, 39411.	1.6	53

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19	Mechanism of cell repellence on quasi-aligned nanowire arrays on Ti alloy. <i>Biomaterials</i> , 2010, 31, 8341-8349.	5.7	52
20	Recent advances in structural engineering of 2D hexagonal boron nitride electrocatalysts. <i>Nano Energy</i> , 2022, 91, 106661.	8.2	49
21	Se-NiSe ₂ hybrid nanosheet arrays with self-regulated elemental Se for efficient alkaline water splitting. <i>Journal of Materials Science and Technology</i> , 2022, 118, 136-143.	5.6	46
22	Lithiation Kinetics in High-Performance Porous Vanadium Nitride Nanosheet Anode. <i>Electrochimica Acta</i> , 2016, 214, 201-207.	2.6	41
23	Nonleaching Antibacterial Concept Demonstrated by In Situ Construction of 2D Nanoflakes on Magnesium. <i>Advanced Science</i> , 2020, 7, 1902089.	5.6	39
24	Core-shell TiC/C quasi-aligned nanofiber arrays on biomedical Ti6Al4V for sensitive electrochemical biosensing. <i>Chemical Communications</i> , 2010, 46, 6828.	2.2	34
25	Recyclable Non-Enzymatic Glucose Sensor Based on Ni/NiTiO ₃ /TiO ₂ Nanotube Arrays. <i>ChemPlusChem</i> , 2015, 80, 576-582.	1.3	34
26	Highly Durable and Efficient Ni-FeO _x /FeNi ₃ Electrocatalysts Synthesized by a Facile In Situ Combustion-Based Method for Overall Water Splitting with Large Current Densities. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 27842-27853.	4.0	34
27	Use of carbon supports with copper ion as a highly sensitive non-enzymatic glucose sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 187-196.	4.0	33
28	Porous Dual-Layered MoO _x Nanotube Arrays with Highly Conductive TiN Cores for Supercapacitors. <i>ChemElectroChem</i> , 2015, 2, 512-517.	1.7	30
29	Palladium Separation by Pd-Catalyzed Gel Formation via Alkyne Coupling. <i>Chemistry of Materials</i> , 2019, 31, 7386-7394.	3.2	28
30	Hydrothermal synthesis of perovskite-type MTiO ₃ (M = Zn, Co). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (Ni)/TiO₂</i> 2014, 16, 10280-10285.	1.3	25
31	A high-performance electrocatalyst composed of nickel clusters encapsulated with a carbon network on TiN nanowire arrays for the oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 567, 150779.	3.1	25
32	Blue ordered/disordered Janus-type TiO ₂ nanoparticles for enhanced photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22828-22839.	5.2	24
33	TiO ₂ film supported by vertically aligned gold nanorod superlattice array for enhanced photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 417, 127900.	6.6	23
34	Cu ^{II} -Mediated Ultra-Efficient Electrooxidation of Glucose. <i>ChemElectroChem</i> , 2017, 4, 2788-2792.	1.7	20
35	Dominant Factors Governing the Electron Transfer Kinetics and Electrochemical Biosensing Properties of Carbon Nanofiber Arrays. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28872-28879.	4.0	19
36	Controllable Growth of Conical and Cylindrical TiO ₂ -Carbon Core-Shell Nanofiber Arrays and Morphologically Dependent Electrochemical Properties. <i>Chemistry - A European Journal</i> , 2011, 17, 14552-14558.	1.7	17

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37	Fabrication and Photocatalytic Activity of Nanoporous WO ₃ Film. <i>Nanoscience and Nanotechnology Letters</i> , 2010, 2, 51-57.	0.4	15
38	Plasmon-enhanced hydrogen evolution on Pt-anchored titanium nitride nanowire arrays. <i>Applied Surface Science</i> , 2022, 598, 153745.	3.1	14
39	Arrays of nanofibers composed of a TiC core and a carbon coating for sensitive electrochemical detection of hydrazine. <i>Mikrochimica Acta</i> , 2011, 175, 137-143.	2.5	13
40	Insights into enhancement of photocatalytic properties of g-C ₃ N ₄ by local electric field induced by polarization of MgO(111). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105922.	3.3	13
41	Development of a novel tridentate ligand for colorimetric detection of Mn ²⁺ based on AgNPs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 202, 244-251.	2.0	10
42	Enhanced photocatalytic degradation of 4-chlorophenol under visible light over carbon nitride nanosheets with carbon vacancies. <i>Nanotechnology</i> , 2021, 32, 415704.	1.3	6
43	Creating Multiple Parallel Internal Phase Junctions on ZnS Nanoparticles as Highly Active Catalytic Sites. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800611.	1.9	5
44	Antibacterial Biomaterials: Nonleaching Antibacterial Concept Demonstrated by In Situ Construction of 2D Nanoflakes on Magnesium (Adv. Sci. 1/2020). <i>Advanced Science</i> , 2020, 7, 2070006.	5.6	3
45	Nitrogen-doped carbon coated TiC nanofiber arrays deposited on Ti-6Al-4V for selective and sensitive electrochemical detection of dopamine. <i>Surface and Coatings Technology</i> , 2020, 402, 126266.	2.2	3
46	Growth of Well-Aligned ZnO Nanorod Arrays on Si Substrates by Thermal Evaporation of Cu-Zn Alloy Powders. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 4786-4791.	0.9	2
47	Direct Growth of Hexagonal Cd(OH) ₂ Nanoplates from and on Cadmium Substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3747-3751.	0.9	1
48	Fabrication and photoelectrochemical properties of nanoporous WO ₃ film. , 2010, , .		1
49	Photochemical properties of SnO ₂ nanorods arrays grown on nanoporous stainless steel. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9989-9995.	1.1	1
50	Electrochemical behaviors of composite electrode of TiO ₂ /nanotube arrays and carbon nanoparticles. , 2010, , .		0
51	N-Doped Carbon Coated TiC Nanofiber Arrays on Ti-6Al-4V for Sensitive Electrochemical Determination of Cr(VI). <i>Electroanalysis</i> , 2022, 34, 623-628.	1.5	0