

Hong-Gang Liao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

4,110
citations

28
h-index

64
g-index

76
ext. papers

4,890
ext. citations

11.9
avg, IF

5.61
L-index

#	Paper	IF	Citations
67	Efficient CO ₂ reduction MOFs derivatives transformation mechanism revealed by in-situ liquid phase TEM. <i>Applied Catalysis B: Environmental</i> , 2022 , 307, 121164	21.8	0
66	Enhancing electrocatalytic nitrogen reduction to ammonia with rare earths (La, Y, and Sc) on high-index faceted platinum alloy concave nanocubes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26277-26285	13.1	4
65	Microstrain Engineered Ni _x S ₂ /PtNi Porous Nanowires for Boosting Hydrogen Evolution Activity. <i>Energy & Fuels</i> , 2021 , 35, 6928-6934	4.1	3
64	Engineering of Amorphous PtO _x Interface on Pt/WO ₃ Nanosheets for Ethanol Oxidation Electrocatalysis. <i>Advanced Functional Materials</i> , 2021 , 31, 2100982	15.6	15
63	Real time imaging of photocatalytic active site formation during H ₂ evolution by in-situ TEM. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119743	21.8	8
62	Atomic Scale Tracking of Single Layer Oxide Formation: Self-Peeling and Phase Transition in Solution.. <i>Small Methods</i> , 2021 , 5, e2001234	12.8	2
61	CeO ₂ -supported monodispersed MoO ₃ clusters for high-efficiency electrochemical nitrogen reduction under ambient condition. <i>Journal of Energy Chemistry</i> , 2021 , 56, 186-192	12	3
60	Reshaping the Cathodic Catalyst Layer for Anion Exchange Membrane Fuel Cells: From Heterogeneous Catalysis to Homogeneous Catalysis. <i>Angewandte Chemie</i> , 2021 , 133, 4095-4100	3.6	0
59	A Carbon Foam with Sodiophilic Surface for Highly Reversible, Ultra-Long Cycle Sodium Metal Anode. <i>Advanced Science</i> , 2021 , 8, 2003178	13.6	17
58	Reshaping the Cathodic Catalyst Layer for Anion Exchange Membrane Fuel Cells: From Heterogeneous Catalysis to Homogeneous Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4049-4054	16.4	9
57	Synergistic effects of carbon doping and coating of TiO ₂ with exceptional photocurrent enhancement for high performance H ₂ production from water splitting. <i>Journal of Energy Chemistry</i> , 2021 , 56, 141-151	12	12
56	Visualizing light-induced dynamic structural transformations of Au clusters-based photocatalyst via in situ TEM. <i>Nano Research</i> , 2021 , 14, 2805-2809	10	11
55	The Effect of Pretreatment on the Reactivity of Pd/Al ₂ O ₃ in Room Temperature Formaldehyde Oxidation. <i>ChemCatChem</i> , 2021 , 13, 4133	5.2	2
54	A "Biconcave-Alleviated" Strategy to Construct -Derived Carbon/MoS ₂ for Ultrastable Sodium Ion Storage. <i>ACS Nano</i> , 2021 ,	16.7	14
53	Creating Fluorine-Doped MoS ₂ Edge Electrodes with Enhanced Hydrogen Evolution Activity.. <i>Small Methods</i> , 2021 , 5, e2100612	12.8	9
52	Atomically Isolated Rh Sites within Highly Branched Rh Sb Nanostructures Enhance Bifunctional Hydrogen Electrocatalysis. <i>Advanced Materials</i> , 2021 , 33, e2105049	24	8
51	Machine-Learning-Guided Morphology Engineering of Nanoscale Metal-Organic Frameworks. <i>Matter</i> , 2020 , 2, 1651-1666	12.7	21

50	Biomimetic micro cell cathode for high performance lithium-sulfur batteries. <i>Nano Energy</i> , 2020 , 72, 104680	17.1	25
49	Effect of Atomic Ordering Transformation of PtNi Nanoparticles on Alkaline Hydrogen Evolution: Unexpected Superior Activity of the Disordered Phase. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5036-5045	3.8	13
48	Tracking the atomic pathways of Pt ₃ Ni-Ni(OH) ₂ core-shell structures at the gas-liquid interface by in-situ liquid cell TEM. <i>Science China Chemistry</i> , 2020 , 63, 513-518	7.9	8
47	Shaping and Edge Engineering of Few-Layered Freestanding Graphene Sheets in a Transmission Electron Microscope. <i>Nano Letters</i> , 2020 , 20, 2279-2287	11.5	3
46	In-situ liquid cell TEM investigation on assembly and symmetry transformation of Pt superlattice. <i>Science China Materials</i> , 2020 , 63, 602-610	7.1	4
45	A novel strategy for synthesizing Fe, N, and S tridoped graphene-supported Pt nanodendrites toward highly efficient methanol oxidation. <i>Journal of Catalysis</i> , 2020 , 381, 275-284	7.3	33
44	Highly efficient Co ₃ O ₄ /Co@NCs bifunctional oxygen electrocatalysts for long life rechargeable Zn-air batteries. <i>Nano Energy</i> , 2020 , 77, 105200	17.1	30
43	Probing surface structure on two-dimensional metal-organic layers to understand suppressed interlayer packing. <i>Nano Research</i> , 2020 , 13, 3151-3156	10	6
42	In Situ TEM Study of the Degradation of PbSe Nanocrystals in Air. <i>Chemistry of Materials</i> , 2019 , 31, 190-198	10	13
41	Ultrasmall Abundant Metal-Based Clusters as Oxygen-Evolving Catalysts. <i>Journal of the American Chemical Society</i> , 2019 , 141, 232-239	16.4	41
40	Sulfur Microspheres Encapsulated in Porous Silver-Based Shell with Superior Performance for Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2018 , 5, 1683-1690	4.3	9
39	Screw-like PdPt nanowires as highly efficient electrocatalysts for methanol and ethylene glycol oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2327-2336	13	71
38	An Open-Structured Matrix as Oxygen Cathode with High Catalytic Activity and Large Li ₂ O ₂ Accommodations for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1800089	21.8	68
37	Synthesis of u-channelled spherical Fe(CoNi) Janus colloidal particles with excellent electromagnetic wave absorption performance. <i>Nanoscale</i> , 2018 , 10, 1930-1938	7.7	49
36	High selectivity PtRh/RGO catalysts for ethanol electro-oxidation at low potentials: Enhancing the efficiency of CO ₂ from alcoholic groups. <i>Electrochimica Acta</i> , 2018 , 292, 208-216	6.7	29
35	In-situ Multimodal Imaging and Spectroscopy of Mg Electrodeposition at Electrode-Electrolyte Interfaces. <i>Scientific Reports</i> , 2017 , 7, 42527	4.9	14
34	Platinum-Cobalt Bimetallic Nanoparticles with Pt Skin for Electro-Oxidation of Ethanol. <i>ACS Catalysis</i> , 2017 , 7, 892-895	13.1	63
33	Graphitized porous carbon materials with high sulfur loading for lithium-sulfur batteries. <i>Nano Energy</i> , 2017 , 32, 503-510	17.1	95

32	Preparation of carbon-coated magnetic nanocomposites under inert atmosphere and at low temperature. <i>Materials and Design</i> , 2017 , 114, 25-30	8.1	7
31	A Gigantic Molecular Wheel of {Gd}: A New Member of the Molecular Wheel Family. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18178-18181	16.4	144
30	Tracking Nanoparticle Diffusion and Interaction during Self-Assembly in a Liquid Cell. <i>Nano Letters</i> , 2017 , 17, 15-20	11.5	65
29	Tuning Pt-skin to Ni-rich surface of Pt ₃ Ni catalysts supported on porous carbon for enhanced oxygen reduction reaction and formic electro-oxidation. <i>Nano Energy</i> , 2016 , 19, 198-209	17.1	83
28	Liquid Cell TEM Study of Nanoparticle Diffusion and Interaction in Liquids. <i>Microscopy and Microanalysis</i> , 2016 , 22, 742-743	0.5	
27	Liquid Cell Transmission Electron Microscopy. <i>Annual Review of Physical Chemistry</i> , 2016 , 67, 719-47	15.7	86
26	Observation of materials processes in liquids by electron microscopy. <i>MRS Bulletin</i> , 2015 , 40, 46-52	3.2	35
25	Visualization of electrode-electrolyte interfaces in LiPF ₆ /EC/DEC electrolyte for lithium ion batteries via in situ TEM. <i>Nano Letters</i> , 2014 , 14, 1745-50	11.5	252
24	Durable carbon-coated Li ₂ (S) core-shell spheres for high performance lithium/sulfur cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4659-63	16.4	228
23	TEM study of fivefold twined gold nanocrystal formation mechanism. <i>Materials Letters</i> , 2014 , 116, 299-303	3.3	14
22	Nanoparticle growth. Facet development during platinum nanocube growth. <i>Science</i> , 2014 , 345, 916-9	33.3	347
21	Shape Evolution of Platinum Nanocrystals by Electrochemistry. <i>Electrochimica Acta</i> , 2014 , 140, 345-351	6.7	11
20	Visualization of the coalescence of bismuth nanoparticles. <i>Microscopy and Microanalysis</i> , 2014 , 20, 416-24	0.5	47
19	Liquid cell transmission electron microscopy study of platinum iron nanocrystal growth and shape evolution. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5038-43	16.4	96
18	Observation of growth of metal nanoparticles. <i>Chemical Communications</i> , 2013 , 49, 11720-7	5.8	113
17	Structural and morphological evolution of lead dendrites during electrochemical migration. <i>Scientific Reports</i> , 2013 , 3, 3227	4.9	69
16	Carbon nanofiber/sulfur composite cathode materials with different binders for secondary Li/S cells. <i>Electrochimica Acta</i> , 2012 , 65, 228-233	6.7	105
15	Electrochemically shape-controlled synthesis of trapezohedral platinum nanocrystals with high electrocatalytic activity. <i>Chemical Communications</i> , 2012 , 48, 9531-3	5.8	87

14	Real-time imaging of Pt ₃ Fe nanorod growth in solution. <i>Science</i> , 2012 , 336, 1011-4	33.3	563
13	Revealing dynamic processes of materials in liquids using liquid cell transmission electron microscopy. <i>Journal of Visualized Experiments</i> , 2012 ,	1.6	6
12	Imaging of Pt ₃ Fe Nanowire Growth in Liquids by In situ TEM. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1092-1093	10.9	193
11	Polyelectrolyte-induced reduction of exfoliated graphite oxide: a facile route to synthesis of soluble graphene nanosheets. <i>ACS Nano</i> , 2011 , 5, 1785-91	16.7	274
10	Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. <i>Chemistry of Materials</i> , 2011 , 23, 1079-1081	9.6	342
9	Direct Electrochemistry and Electrocatalysis of Myoglobin Immobilized on Graphene-CTAB-Ionic Liquid Nanocomposite Film. <i>Electroanalysis</i> , 2010 , 22, 2297-2302	3	16
8	Shape-controlled synthesis of gold nanoparticles in deep eutectic solvents for studies of structure-functionality relationships in electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9100-3	16.4	300
7	Shape-Controlled Synthesis of Gold Nanoparticles in Deep Eutectic Solvents for Studies of Structure-Functionality Relationships in Electrocatalysis. <i>Angewandte Chemie</i> , 2008 , 120, 9240-9243	3.6	85
6	Special IR properties of palladium nanoparticles and their aggregations in CO molecular probe infrared spectroscopy. <i>Science Bulletin</i> , 2004 , 49, 1581		
5	Special IR properties of palladium nanoparticles and their aggregations in CO molecular probe infrared spectroscopy. <i>Science Bulletin</i> , 2004 , 49, 1581-1585		0
4	Nanostructure Growth, Interactions, and Assembly in the Liquid Phase	191-209	1
3	Observations of Dense Liquid Phase-Assisted Nanocrystal Growth and Coalescence. <i>Crystal Growth and Design</i> ,	3.5	
2	Advanced Electron Energy Loss Spectroscopy for Battery Studies. <i>Advanced Functional Materials</i> , 2017 , 27, 1701125	10.6	0
1	Reconstruction of Ultrahigh-Aspect-Ratio Crystalline Bismuth Organic Hybrid Nanobelts for Selective Electrocatalytic CO ₂ Reduction to Formate. <i>Advanced Functional Materials</i> , 2017 , 27, 1701125	15.6	6