

# Haiping Lin

## List of Publications by Year in descending order

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103  
papers

4,930  
citations

87888

38  
h-index

98798

67  
g-index

104  
all docs

104  
docs citations

104  
times ranked

6234  
citing authors

#	ARTICLE	IF	CITATIONS
1	On-Surface Synthesis of Rylene-Type Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2015, 137, 4022-4025.	13.7	278
2	A rhodium/silicon co-electrocatalyst design concept to surpass platinum hydrogen evolution activity at high overpotentials. <i>Nature Communications</i> , 2016, 7, 12272.	12.8	272
3	Janus Structures of Transition Metal Dichalcogenides as the Heterojunction Photocatalysts for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3123-3129.	3.1	246
4	Regulating the Local Charge Distribution of Ni Active Sites for the Urea Oxidation Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10577-10582.	13.8	221
5	A Latticeâ€œOxygenâ€œInvolved Reaction Pathway to Boost Urea Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16820-16825.	13.8	201
6	Hydrochromic CsPbBr <sub>3</sub> Nanocrystals for Antiâ€œCounterfeiting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14527-14532.	13.8	190
7	Enhanced Catalytic Conversion of Polysulfides Using Bimetallic Co <sub>7</sub> Fe <sub>3</sub> for High-Performance Lithiumâ€œSulfur Batteries. <i>ACS Nano</i> , 2020, 14, 11558-11569.	14.6	158
8	Real-Space Imaging of the Atomic Structure of Organicâ€œInorganic Perovskite. <i>Journal of the American Chemical Society</i> , 2015, 137, 16049-16054.	13.7	155
9	High-efficiency direct methane conversion to oxygenates on a cerium dioxide nanowires supported rhodium single-atom catalyst. <i>Nature Communications</i> , 2020, 11, 954.	12.8	152
10	Iridium metallene oxide for acidic oxygen evolution catalysis. <i>Nature Communications</i> , 2021, 12, 6007.	12.8	137
11	Atomistic Origins of Surface Defects in CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite and Their Electronic Structures. <i>ACS Nano</i> , 2017, 11, 2060-2065.	14.6	123
12	Surface-Controlled Mono/Diselective <i>ortho</i> Câ€œH Bond Activation. <i>Journal of the American Chemical Society</i> , 2016, 138, 2809-2814.	13.7	120
13	Highly Curved Nanostructureâ€œCoated Co, Nâ€œDoped Carbon Materials for Oxygen Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12759-12764.	13.8	120
14	Cobaltâ€œNitrogenâ€œDoped Helical Carbonaceous Nanotubes as a Class of Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13187-13191.	13.8	112
15	Approaching the Volcano Top: Iridium/Silicon Nanocomposites as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2019, 13, 2786-2794.	14.6	106
16	Synthesis of Surface Covalent Organic Frameworks via Dimerization and Cyclotrimerization of Acetyls. <i>Journal of the American Chemical Society</i> , 2015, 137, 4904-4907.	13.7	98
17	Heptazine-based graphitic carbon nitride as an effective hydrogen purification membrane. <i>RSC Advances</i> , 2016, 6, 52377-52383.	3.6	76
18	Stable and metallic borophene nanoribbons from first-principles calculations. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6380-6385.	5.5	75

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19	Highly Efficient Oxygen Evolution by a Thermocatalytic Process Cascaded Electrocatalysis Over Sulfur-Treated Fe-Based Metal-Organic Frameworks. <i>Advanced Energy Materials</i> , 2020, 10, 2000184.	19.5	75
20	Single Vanadium Atoms Anchored on Graphitic Carbon Nitride as a High-Performance Catalyst for Non-oxidative Propane Dehydrogenation. <i>ACS Nano</i> , 2020, 14, 5772-5779.	14.6	73
21	Structures, mobility and electronic properties of point defects in arsenene, antimonene and an antimony arsenide alloy. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4159-4166.	5.5	72
22	The Synergy between Metal Facet and Oxide Support Facet for Enhanced Catalytic Performance: The Case of Pd-TiO <sub>2</sub> . <i>Nano Letters</i> , 2016, 16, 5298-5302.	9.1	69
23	The Largest Supertetrahedral Oxychalcogenide Nanocluster and Its Unique Assembly. <i>Journal of the American Chemical Society</i> , 2018, 140, 11189-11192.	13.7	64
24	Regulating the Local Charge Distribution of Ni Active Sites for the Urea Oxidation Reaction. <i>Angewandte Chemie</i> , 2021, 133, 10671-10676.	2.0	61
25	Two-Dimensional Palladium-Copper Alloy Nanodendrites for Highly Stable and Selective Electrochemical Formate Production. <i>Nano Letters</i> , 2021, 21, 4092-4098.	9.1	59
26	A highly efficient alkaline HER Co-Mo bimetallic carbide catalyst with an optimized Mo d-orbital electronic state. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12434-12439.	10.3	58
27	MoS <sub>2</sub> supported single platinum atoms and their superior catalytic activity for CO oxidation: a density functional theory study. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23113-23119.	10.3	56
28	Structural Variation in Surface-Supported Synthesis by Adjusting the Stoichiometric Ratio of the Reactants. <i>ACS Nano</i> , 2016, 10, 4228-4235.	14.6	55
29	Role of Lateral Alkyl Chains in Modulation of Molecular Structures on Metal Surfaces. <i>Physical Review Letters</i> , 2006, 96, 226101.	7.8	51
30	Cooperativity by Multi-Metals Confined in Supertetrahedral Sulfide Nanoclusters To Enhance Electrocatalytic Hydrogen Evolution. <i>Chemistry of Materials</i> , 2019, 31, 553-559.	6.7	48
31	Stability of two-dimensional PN monolayer sheets and their electronic properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32009-32015.	2.8	47
32	Using the Ni-N dipole as a theoretical indicator for estimating the electrocatalytic performance of active sites in the nitrogen reduction reaction: single transition metal atoms embedded in two dimensional phthalocyanine. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3598-3605.	10.3	47
33	Selective Analysis of Molecular States by Functionalized Scanning Tunneling Microscopy Tips. <i>Physical Review Letters</i> , 2006, 96, 156102.	7.8	44
34	Cooperative molecular dynamics in surface reactions. <i>Nature Chemistry</i> , 2009, 1, 716-721.	13.6	42
35	Revealing the Correlation between Catalytic Selectivity and the Local Coordination Environment of Pt Single Atom. <i>Nano Letters</i> , 2020, 20, 6865-6872.	9.1	42
36	Self-assembly directed one-step synthesis of [4]radialene on Cu(100) surfaces. <i>Nature Communications</i> , 2018, 9, 3113.	12.8	41

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37	Os/Si nanocomposites as excellent hydrogen evolution electrocatalysts with thermodynamically more favorable hydrogen adsorption free energy than platinum. <i>Nano Energy</i> , 2017, 39, 284-290.	16.0	40
38	Intermediate States Directed Chiral Transfer on a Silver Surface. <i>Journal of the American Chemical Society</i> , 2019, 141, 168-174.	13.7	40
39	B <sub>40</sub> fullerene as a highly sensitive molecular device for NH <sub>3</sub> detection at low bias: a first-principles study. <i>Nanotechnology</i> , 2016, 27, 075501.	2.6	39
40	Propelling polysulfide redox conversion by d-band modulation for high sulfur loading and low temperature lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18526-18536.	10.3	39
41	A Lattice-Oxygen Involved Reaction Pathway to Boost Urea Oxidation. <i>Angewandte Chemie</i> , 2019, 131, 16976-16981.	2.0	38
42	A stepwise-designed Rh-Au-Si nanocomposite that surpasses Pt/C hydrogen evolution activity at high overpotentials. <i>Nano Research</i> , 2017, 10, 1749-1755.	10.4	37
43	Directed long-range molecular migration energized by surface reaction. <i>Nature Chemistry</i> , 2011, 3, 400-408.	13.6	36
44	Electronic modulation of oxygen evolution on metal doped NiFe layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 385-392.	9.4	35
45	Electronic Modulation of Hierarchical Spongy Nanosheets toward Efficient and Stable Water Electrolysis. <i>Small</i> , 2021, 17, e2006881.	10.0	35
46	Concentration-Controlled Reversible Phase Transitions in Self-Assembled Monolayers on HOPG Surfaces. <i>Small</i> , 2015, 11, 2284-2290.	10.0	34
47	Determining Locations of Conduction Bands and Valence Bands of Semiconductor Nanoparticles Based on Their Band Gaps. <i>ACS Omega</i> , 2020, 5, 10297-10300.	3.5	30
48	Induce magnetism into silicene by embedding transition-metal atoms. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	28
49	Rh-Ag-Si ternary composites: highly active hydrogen evolution electrocatalysts over Pt-Ag-Si. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1623-1628.	10.3	28
50	Theoretical Investigation of On-Purpose Propane Dehydrogenation over the Two-Dimensional Ru-Pc Framework. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4969-4976.	3.1	28
51	Sintering-Resistant Pt on Ga <sub>2</sub> O <sub>3</sub> Rods for Propane Dehydrogenation: The Morphology Matters. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 13087-13093.	3.7	27
52	Interface Engineering of Silver-Based Heterostructures for CO <sub>2</sub> Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 56642-56649.	8.0	27
53	Catalytic Dealkylation of Ethers to Alcohols on Metal Surfaces. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9881-9885.	13.8	23
54	Revealing the Active Sites of Pd Nanocrystals for Propyne Semihydrogenation: From Theory to Experiment. <i>ACS Catalysis</i> , 2019, 9, 8471-8480.	11.2	22

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55	Simple Semiempirical Method for the Location Determination of HOMO and LUMO of Carbon Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7451-7457.	3.1	22
56	Self-reconstruction of a MOF-derived chromium-doped nickel disulfide in electrocatalytic water oxidation. <i>Chemical Engineering Journal</i> , 2022, 430, 133046.	12.7	22
57	Strong metal-support interaction between palladium and gallium oxide within monodisperse nanoparticles: self-supported catalysts for propyne semi-hydrogenation. <i>Journal of Catalysis</i> , 2021, 395, 36-45.	6.2	21
58	From Theory to Experiment: Cascading of Thermocatalysis and Electrolysis in Oxygen Evolution Reactions. <i>ACS Energy Letters</i> , 2022, 7, 343-348.	17.4	21
59	Powerful synergy: efficient Pt-Au-Si nanocomposites as state-of-the-art catalysts for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21903-21908.	10.3	19
60	Cobalt-Nitrogen-Doped Helical Carbonaceous Nanotubes as a Class of Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2018, 130, 13371-13375.	2.0	19
61	Deprotonation-Induced Phase Evolutions in Co-Assembled Molecular Structures. <i>Langmuir</i> , 2018, 34, 7852-7858.	3.5	19
62	Highly Curved Nanostructure-Coated Co, N-Doped Carbon Materials for Oxygen Electrocatalysis. <i>Angewandte Chemie</i> , 2021, 133, 12869-12874.	2.0	19
63	Computational Search for Better Thermoelectric Performance in Nickel-Based Half-Heusler Compounds. <i>ACS Omega</i> , 2021, 6, 18269-18280.	3.5	19
64	Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms. <i>Nano Letters</i> , 2018, 18, 5482-5487.	9.1	18
65	Hydroxyl-terminated carbon dots for efficient conversion of cyclohexane to adipic acid. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 281-289.	9.4	18
66	Functionalization of metal oxides with thiocyanate groups: A general strategy for boosting oxygen evolution reaction in neutral media. <i>Nano Energy</i> , 2020, 76, 105079.	16.0	16
67	Direct observation of charge transfer between molecular heterojunctions based on inorganic semiconductor clusters. <i>Chemical Science</i> , 2020, 11, 4085-4096.	7.4	16
68	A density functional theory study of high-performance pre-lithiated MS <sub>2</sub> (M = Mo, W, V) Monolayers as the Anode Material of Lithium Ion Batteries. <i>Scientific Reports</i> , 2020, 10, 6897.	3.3	16
69	Minimized external electric field on asymmetric monolayer maximizes charge separation for photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120266.	20.2	16
70	Acetylene adsorption on silicon (100)-(4 $\times$ 2) revisited. <i>Surface Science</i> , 2011, 605, 1341-1346.	1.9	14
71	Switching the Spin on a Ni Trimer within a Metal-Organic Motif by Controlling the On-Top Bromine Atom. <i>ACS Nano</i> , 2019, 13, 9936-9943.	14.6	14
72	Bond-Scission-Induced Structural Transformation from Cumulene to Diyne Moiety and Formation of Semiconducting Organometallic Polyyne. <i>Journal of the American Chemical Society</i> , 2020, 142, 8085-8089.	13.7	14

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73	First-principles modelling of scanning tunneling microscopy using non-equilibrium Green's functions. <i>Frontiers of Physics in China</i> , 2010, 5, 369-379.	1.0	13
74	Spontaneous Breaking and Remaking of the S-Au-SR Staple in Self-assembled Ethylthiolate/Au(111) Interface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19473-19480.	3.1	13
75	van der Waals corrected DFT study of high coverage benzene adsorptions on Si(100) surface and STM simulations. <i>Surface Science</i> , 2014, 621, 152-161.	1.9	11
76	Water Production Reaction on Rh(110). <i>Journal of the American Chemical Society</i> , 2005, 127, 11454-11459.	13.7	10
77	Catalytic Dealkylation of Ethers to Alcohols on Metal Surfaces. <i>Angewandte Chemie</i> , 2016, 128, 10035-10039.	2.0	9
78	Mechanistic investigations of the Au catalysed C-H bond activations in on-surface synthesis. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15901-15906.	2.8	9
79	Positioning growth of NPB crystalline nanowires on the PTCDA nanocrystal template. <i>Nanoscale</i> , 2018, 10, 10262-10267.	5.6	9
80	Molecular Modulation of a Molybdenum-Selenium Cluster by Sulfur Substitution To Enhance the Hydrogen Evolution Reaction. <i>Inorganic Chemistry</i> , 2019, 58, 12415-12421.	4.0	9
81	Stabilizing Oxygen Vacancies in ZrO <sub>2</sub> by Ga <sub>2</sub> O <sub>3</sub> Boosts the Direct Dehydrogenation of Light Alkanes. <i>ACS Catalysis</i> , 2021, 11, 10159-10169.	11.2	9
82	On-Surface Synthesis of Thiophene-Containing Large-Sized Organometallic Macrocycles on the Ag(111) Surface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11454-11461.	3.1	8
83	Constructing and Transferring Two-Dimensional Tessellation Kagome Lattices via Chemical Reactions on Cu(111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8151-8156.	4.6	8
84	Facile Charge-Displacement at Silicon Gives Spaced-out Reaction. <i>Journal of the American Chemical Society</i> , 2011, 133, 16560-16565.	13.7	7
85	Two-Dimensional van der Waals Supramolecular Frameworks from Co-Hosted Molecular Assembly and C <sub>60</sub> Dimerization. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12589-12595.	3.1	7
86	The triggering of catalysis via structural engineering at atomic level: Direct propane dehydrogenation on Fe-N <sub>3</sub> P-C. <i>Chinese Chemical Letters</i> , 2023, 34, 107289.	9.0	6
87	In Situ Observation of Stepwise C-H Bond Scission: Deciphering the Catalytic Selectivity of Ethylbenzene-to-Styrene Conversion on TiO <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9850-9855.	4.6	5
88	A Fundamental Role of the Molecular Length in Forming Metal-Organic Hybrids of Phenol Derivatives on Silver Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1869-1875.	4.6	5
89	Black phosphorus incorporated cobalt oxide: Biomimetic channels for electrocatalytic water oxidation. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1123-1130.	14.0	5
90	Boosting electrocatalytic selectivity in carbon dioxide reduction: The fundamental role of dispersing gold nanoparticles on silicon nanowires. <i>Chinese Chemical Letters</i> , 2022, 33, 4380-4384.	9.0	5

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91	Highly crystalline core dominated the catalytic performance of carbon dot for cyclohexane to adipic acid reaction. Nano Research, 2022, 15, 7662-7669.	10.4	5
92	Probing Phase Evolutions of Au-Methyl-Propyl-Thiolate Self-Assembled Monolayers on Au(111) at the Molecular Level. Journal of Physical Chemistry B, 2018, 122, 6666-6672.	2.6	4
93	Complex supramolecular tessellations with on-surface self-synthesized C <sub>60</sub> tiles through van der Waals interaction. Nanoscale, 2022, 14, 1333-1339.	5.6	3
94	A mechanistic study of selective propane dehydrogenations on MoS <sub>2</sub> supported single Fe atoms. Chinese Chemical Letters, 2023, 34, 107257.	9.0	3
95	Synthesis of the Two-Dimensional Robust Kagome Lattice on Au(111) via the Introduction of Fe Atoms. Journal of Physical Chemistry C, 2022, 126, 12009-12014.	3.1	3
96	Tailoring Alkane Uniaxial Self-Assembly via Polymer Modified Step Edges. Journal of Physical Chemistry C, 2019, 123, 28811-28815.	3.1	2
97	Insight into the Li- and Zn-Ion Synergistic Effect for Benzoquinone-Based Anodes in Aqueous Batteries. ACS Applied Energy Materials, 2020, 3, 8309-8316.	5.1	2
98	Theory of Scanning Tunneling Microscopy and Applications in Catalysis. , 0, , 97-118.		1
99	Structural Evolutions of the Self-Assembled N-Decyldecanamide on Au(111). Journal of Physical Chemistry C, 2018, 122, 22538-22543.	3.1	1
100	Orientation-Selective Growth of Single-Atomic-Layer Gold Nanosheets via van der Waals Interlocking and Octanethiolate-Confined Molecular Channels. Journal of Physical Chemistry C, 2019, 123, 25228-25235.	3.1	1
101	On-Surface Intramolecular Dehalogenation of Vicinal Dibromides for the Direct Formation of C=C Double Bonds. Journal of Physical Chemistry C, 2019, 123, 30467-30472.	3.1	1
102	Growth, coalescence, and etching of two-dimensional overlayers on metals modulated by near-surface Ar nanobubbles. Nano Research, 0, , 1.	10.4	1
103	On-surface synthesis of 2D COFs via molecular assembly directed photocycloadditions: a first-principles investigation. Journal of Physics Condensed Matter, 2021, 33, 475201.	1.8	0