

Xin-Hao Li

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.

113
papers

7,067
citations

40
h-index

83
g-index

121
ext. papers

8,187
ext. citations

9.6
avg, IF

6.37
L-index

#	Paper	IF	Citations
113	Facilitating Hot Electron Injection from Graphene to Semiconductor by Rectifying Contact for Vis-NIR-Driven H ₂ O Production.. <i>Small</i> , 2022 , e2200885	11	0
112	Semiconductor-based nanocomposites for selective organic synthesis. <i>Nano Select</i> , 2021 , 2, 1799	3.1	0
111	Carbon monoliths with programmable valence bands as de novo anodes for additive-free coupling of alcohols into acetals. <i>FlatChem</i> , 2021 , 27, 100248	5.1	1
110	Electrochemical activation of C-H by electron-deficient WC nanocrystals for simultaneous alkoxylation and hydrogen evolution. <i>Nature Communications</i> , 2021 , 12, 3882	17.4	1
109	Designed electron-deficient gold nanoparticles for a room-temperature C-C coupling reaction. <i>Chemical Communications</i> , 2021 , 57, 741-744	5.8	5
108	Chemical fixation of CO ₂ on nanocarbons and hybrids. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20857-20873	10.3	6
107	Schottky Barrier-Induced Surface Electric Field Boosts Universal Reduction of NO in Water to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20711-20716	16.4	14
106	Schottky Barrier-Induced Surface Electric Field Boosts Universal Reduction of NO _x in Water to Ammonia. <i>Angewandte Chemie</i> , 2021 , 133, 20879-20884	3.6	7
105	Heterojunction-Based Electron Donators to Stabilize and Activate Ultrafine Pt Nanoparticles for Efficient Hydrogen Atom Dissociation and Gas Evolution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25766-25770	16.4	5
104	Synergy of Fe-N ₄ and non-coordinated boron atoms for highly selective oxidation of amine into nitrile. <i>Nano Research</i> , 2020 , 13, 2079-2084	10	12
103	A bioinspired microreactor with interfacial regulation for maximizing selectivity in a catalytic reaction. <i>Chemical Communications</i> , 2020 , 56, 8059-8062	5.8	2
102	Mild and selective hydrogenation of CO ₂ into formic acid over electron-rich MoC nanocatalysts. <i>Science Bulletin</i> , 2020 , 65, 651-657	10.6	10
101	Biomimetic Design of a 3 D Transition Metal/Carbon Dyad for the One-Step Hydrodeoxygenation of Vanillin. <i>ChemSusChem</i> , 2020 , 13, 1900-1905	8.3	5
100	Atomically Dispersed Ni-Based Anti-Coking Catalysts for Methanol Dehydrogenation in a Fixed-Bed Reactor. <i>ACS Catalysis</i> , 2020 , 10, 12569-12574	13.1	3
99	Single-step Replacement of an Unreactive C-H Bond by a C-S Bond Using Polysulfide as the Direct Sulfur Source in Anaerobic Ergothioneine Biosynthesis. <i>ACS Catalysis</i> , 2020 , 10, 8981-8994	13.1	6
98	Photocatalytic Stille Cross-coupling on Gold/g-C ₃ N ₄ Nano-heterojunction. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 1013-1016	2.2	13
97	Isoelectric Si Heteroatoms as Electron Traps for N ₂ Fixation and Activation. <i>Advanced Functional Materials</i> , 2020 , 30, 2005779	15.6	12

96	Autoxidation of polythiophene tethered to carbon cloth boosts its electrocatalytic activity towards durable water oxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19793-19798	13	8
95	Electrochemical Reduction of N into NH by Donor-Acceptor Couples of Ni and Au Nanoparticles with a 67.8% Faradaic Efficiency. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14976-14980	16.4	178
94	Boosting selective nitrogen reduction to ammonia on electron-deficient copper nanoparticles. <i>Nature Communications</i> , 2019 , 10, 4380	17.4	117
93	2D/2D Heterojunctions for Catalysis. <i>Advanced Science</i> , 2019 , 6, 1801702	13.6	115
92	Utilizing the Space-Charge Region of the FeNi-LDH/CoP p-n Junction to Promote Performance in Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11903-11909	16.4	163
91	Utilizing the Space-Charge Region of the FeNi-LDH/CoP p-n Junction to Promote Performance in Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2019 , 131, 12029-12035	3.6	13
90	A New Route to Cyclohexanone using H ₂ CO ₃ as a Molecular Catalytic Ligand to Boost the Thorough Hydrogenation of Nitroarenes over Pd Nanocatalysts. <i>ChemCatChem</i> , 2019 , 11, 2837-2842	5.2	2
89	A COOH-terminated nitrogen-doped carbon aerogel as a bulk electrode for completely selective two-electron oxygen reduction to HO. <i>Chemical Communications</i> , 2019 , 55, 6173-6176	5.8	38
88	Synergy of B and Al Dopants in Mesoporous MFI Nanocrystals for Highly Selective Alcoholysis of Furfuryl Alcohol into Ethyl Levulinate. <i>Energy Technology</i> , 2019 , 7, 1900271	3.5	6
87	Nitrogen-thermal modification of the bifunctional interfaces of transition metal/carbon dyads for the reversible hydrogenation and dehydrogenation of heteroarenes. <i>Chemical Communications</i> , 2019 , 55, 11394-11397	5.8	7
86	Crystal Structure of the Ergothioneine Sulfoxide Synthase from and Structure-Guided Engineering To Modulate Its Substrate Selectivity. <i>ACS Catalysis</i> , 2019 , 9, 6955-6961	13.1	9
85	Photogenerated singlet oxygen over zeolite-confined carbon dots for shape selective catalysis. <i>Science China Chemistry</i> , 2019 , 62, 434-439	7.9	9
84	Oriented arrays of CoO nanoneedles for highly efficient electrocatalytic water oxidation. <i>Chemical Communications</i> , 2019 , 55, 3971-3974	5.8	13
83	Schottky Barrier Induced Coupled Interface of Electron-Rich N-Doped Carbon and Electron-Deficient Cu: In-Built Lewis Acid-Base Pairs for Highly Efficient CO Fixation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 38-41	16.4	72
82	Enhanced oxygen electroreduction over nitrogen-free carbon nanotube-supported CuFeO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4331-4336	13	20
81	Tuning the Adsorption Energy of Methanol Molecules Along Ni-N-Doped Carbon Phase Boundaries by the Mott-Schottky Effect for Gas-Phase Methanol Dehydrogenation. <i>Angewandte Chemie</i> , 2018 , 130, 2727-2731	3.6	14
80	Tuning the Adsorption Energy of Methanol Molecules Along Ni-N-Doped Carbon Phase Boundaries by the Mott-Schottky Effect for Gas-Phase Methanol Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2697-2701	16.4	58
79	Polarized few-layer g-C ₃ N ₄ as metal-free electrocatalyst for highly efficient reduction of CO ₂ . <i>Nano Research</i> , 2018 , 11, 2450-2459	10	47

78	Mono-Atomic Fe Centers in Nitrogen/Carbon Monolayers for Liquid-Phase Selective Oxidation Reaction. <i>ChemCatChem</i> , 2018 , 10, 3539-3545	5.2	9
77	A Polyimide Nanolayer as a Metal-Free and Durable Organic Electrode Toward Highly Efficient Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12563-12566	16.4	26
76	Electrostatically mediated selectivity of Pd nanocatalyst via rectifying contact with semiconductor: Replace ligands with light. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 404-409	21.8	2
75	A Polyimide Nanolayer as a Metal-Free and Durable Organic Electrode Toward Highly Efficient Oxygen Evolution. <i>Angewandte Chemie</i> , 2018 , 130, 12743-12746	3.6	9
74	Direct reduction of oxygen gas over dendritic carbons with hierarchical porosity: beyond the diffusion limitation. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2023-2030	6.8	1
73	Mesoporous H-ZSM-5 nanocrystals with programmable number of acid sites as solid ligands to activate Pd nanoparticles for C-C coupling reactions. <i>Nano Research</i> , 2018 , 11, 874-881	10	17
72	Room-Temperature Activation of Molecular Oxygen Over a Metal-Free Triazine-Decorated sp ² -Carbon Framework for Green Synthesis. <i>ChemCatChem</i> , 2018 , 10, 5331-5335	5.2	2
71	Palladium/Graphitic Carbon Nitride (g-C ₃ N ₄) Stabilized Emulsion Microreactor as a Store for Hydrogen from Ammonia Borane for Use in Alkene Hydrogenation. <i>Angewandte Chemie</i> , 2018 , 130, 15073-15077	3.6	9
70	Grouping Effect of Single Nickel-N Sites in Nitrogen-Doped Carbon Boosts Hydrogen Transfer Coupling of Alcohols and Amines. <i>Angewandte Chemie</i> , 2018 , 130, 15414-15418	3.6	3
69	Use of Nitrogen-Containing Carbon Supports To Control the Acidity of Supported Heteropolyacid Model Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13999-14010	3.9	4
68	Grouping Effect of Single Nickel-N Sites in Nitrogen-Doped Carbon Boosts Hydrogen Transfer Coupling of Alcohols and Amines. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15194-15198	16.4	33
67	Palladium/Graphitic Carbon Nitride (g-C ₃ N ₄) Stabilized Emulsion Microreactor as a Store for Hydrogen from Ammonia Borane for Use in Alkene Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14857-14861	16.4	85
66	Engineering the Interfaces of Superadsorbing Graphene-Based Electrodes with Gas and Electrolyte to Boost Gas Evolution and Activation Reactions. <i>ChemSusChem</i> , 2018 , 11, 2306-2309	8.3	14
65	Atomic-Scale Mott-Schottky Heterojunctions of Boron Nitride Monolayer and Graphene as Metal-Free Photocatalysts for Artificial Photosynthesis. <i>Advanced Science</i> , 2018 , 5, 1800062	13.6	34
64	Accelerated room-temperature crystallization of ultrahigh-surface-area porous anatase titania by storing photogenerated electrons. <i>Chemical Communications</i> , 2017 , 53, 1619-1621	5.8	17
63	Mesoporous TS-1 Nanocrystals as Low Cost and High Performance Catalysts for Epoxidation of Styrene. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 577-580	4.9	6
62	Janus Co/CoP Nanoparticles as Efficient Mott-Schottky Electrocatalysts for Overall Water Splitting in Wide pH Range. <i>Advanced Energy Materials</i> , 2017 , 7, 1602355	21.8	370
61	Oxygen Vacancy Engineering of Co ₃ O ₄ Nanocrystals through Coupling with Metal Support for Water Oxidation. <i>ChemSusChem</i> , 2017 , 10, 2875-2879	8.3	64

60	Activating Cobalt Nanoparticles via the Mott-Schottky Effect in Nitrogen-Rich Carbon Shells for Base-Free Aerobic Oxidation of Alcohols to Esters. <i>Journal of the American Chemical Society</i> , 2017 , 139, 811-818	16.4	266
59	The solution-phase process of a g-CN/BiVO dyad to a large-area photoanode: interfacial synergy for highly efficient water oxidation. <i>Chemical Communications</i> , 2017 , 53, 10544-10547	5.8	15
58	Nanoporous Carbon/Nitrogen Materials and their Hybrids for Biomass Conversion 2017 , 55-77		
57	Constructing Ohmic contact in cobalt selenide/Ti dyadic electrode: The third aspect to promote the oxygen evolution reaction. <i>Nano Energy</i> , 2017 , 39, 321-327	17.1	28
56	Programmable synthesis of mesoporous ZSM-5 nanocrystals as selective and stable catalysts for the methanol-to-propylene process. <i>Catalysis Science and Technology</i> , 2016 , 6, 5262-5266	5.5	18
55	Trapping oxygen in hierarchically porous carbon nano-nets: graphitic nitrogen dopants boost the electrocatalytic activity. <i>RSC Advances</i> , 2016 , 6, 56765-56771	3.7	7
54	Nitrogen-doped graphene microtubes with opened inner voids: Highly efficient metal-free electrocatalysts for alkaline hydrogen evolution reaction. <i>Nano Research</i> , 2016 , 9, 2606-2615	10	76
53	Encapsulating Palladium Nanoparticles Inside Mesoporous MFI Zeolite Nanocrystals for Shape-Selective Catalysis. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9178-82	16.4	138
52	Enriching Co nanoparticles inside carbon nanofibers via nanoscale assembly of metal-organic complexes for highly efficient hydrogen evolution. <i>Nano Energy</i> , 2016 , 22, 79-86	17.1	59
51	Ultra-durable two-electrode Zn-air secondary batteries based on bifunctional titania nanocatalysts: a Co ²⁺ dopant boosts the electrochemical activity. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7841-7847	13	24
50	Activating Oxygen Molecules over Carbonyl-Modified Graphitic Carbon Nitride: Merging Supramolecular Oxidation with Photocatalysis in a Metal-Free Catalyst for Oxidative Coupling of Amines into Imines. <i>ChemCatChem</i> , 2016 , 8, 3441-3445	5.2	23
49	Activating Pd nanoparticles on sol-gel prepared porous g-C ₃ N ₄ /SiO ₂ via enlarging the Schottky barrier for efficient dehydrogenation of formic acid. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 1124-1129	6.8	17
48	Nanoscale Kirkendall growth of silicalite-1 zeolite mesocrystals with controlled mesoporosity and size. <i>Chemical Communications</i> , 2015 , 51, 12563-6	5.8	27
47	Hierarchical carbon nanopapers coupled with ultrathin MoS ₂ nanosheets: Highly efficient large-area electrodes for hydrogen evolution. <i>Nano Energy</i> , 2015 , 15, 335-342	17.1	76
46	Co ₂ O ₃ -based binder-free cathodes for lithium-oxygen batteries with improved cycling stability. <i>Dalton Transactions</i> , 2015 , 44, 8678-84	4.3	31
45	General transfer hydrogenation by activating ammonia-borane over cobalt nanoparticles. <i>RSC Advances</i> , 2015 , 5, 102736-102740	3.7	30
44	Surface and interface engineering of electrode materials for lithium-ion batteries. <i>Advanced Materials</i> , 2015 , 27, 527-45	24	344
43	Innenrücktitelbild: Wrinkled Graphene Monoliths as Superabsorbing Building Blocks for Superhydrophobic and Superhydrophilic Surfaces (Angew. Chem. 50/2015). <i>Angewandte Chemie</i> , 2015 , 127, 15515-15515	3.6	

42	Wrinkled Graphene Monoliths as Superabsorbing Building Blocks for Superhydrophobic and Superhydrophilic Surfaces. <i>Angewandte Chemie</i> , 2015 , 127, 15380-15384	3.6	13
41	Wrinkled Graphene Monoliths as Superabsorbing Building Blocks for Superhydrophobic and Superhydrophilic Surfaces. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15165-9	16.4	35
40	Formation of a built-in field at the porphyrin/ITO interface directly proven by the time-resolved photovoltage technique. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 5202-6	3.6	3
39	Converting waste paper to multifunctional graphene-decorated carbon paper: from trash to treasure. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13926-13932	13	28
38	Constructing holey graphene monoliths via supramolecular assembly: Enriching nitrogen heteroatoms up to the theoretical limit for hydrogen evolution reaction. <i>Nano Energy</i> , 2015 , 15, 567-575 ^{17.1}	51	51
37	Multifunctional Au Nanocatalyst for Highly Efficient Hydrolysis of Ammonia Borane. <i>ACS Catalysis</i> , 2015 , 5, 388-392	13.1	111
36	Anchoring Cobalt Nanocrystals through the Plane of Graphene: Highly Integrated Electrocatalyst for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2015 , 27, 544-549	9.6	89
35	In situ catalytic growth of large-area multilayered graphene/MoS ₂ heterostructures. <i>Scientific Reports</i> , 2014 , 4, 4673	4.9	51
34	Strongly veined carbon nanoleaves as a highly efficient metal-free electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6905-9	16.4	148
33	Chemical "top-down" synthesis of amphiphilic superparamagnetic Fe ₃ O ₄ nanobelts from exfoliated FeOCl layers. <i>Dalton Transactions</i> , 2014 , 43, 16173-7	4.3	12
32	The crystallinity effect of mesocrystalline BaZrO ₃ hollow nanospheres on charge separation for photocatalysis. <i>Chemical Communications</i> , 2014 , 50, 3021-3	5.8	22
31	Room-temperature transfer hydrogenation and fast separation of unsaturated compounds over heterogeneous catalysts in an aqueous solution of formic acid. <i>Green Chemistry</i> , 2014 , 16, 3746-3751	10	68
30	Strongly Veined Carbon Nanoleaves as a Highly Efficient Metal-Free Electrocatalyst. <i>Angewandte Chemie</i> , 2014 , 126, 7025-7029	3.6	43
29	Supramolecular nano-assemblies with tailorable surfaces: recyclable hard templates for engineering hollow nanocatalysts. <i>Science China Materials</i> , 2014 , 57, 7-12	7.1	6
28	Photochemically engineering the metal-semiconductor interface for room-temperature transfer hydrogenation of nitroarenes with formic acid. <i>Chemistry - A European Journal</i> , 2014 , 20, 16732-7	4.8	40
27	Bio-inspired noble metal-free reduction of nitroarenes using NiS _{2+x} /g-C ₃ N ₄ . <i>RSC Advances</i> , 2014 , 4, 60873-60877	3.7	17
26	Highly efficient dehydrogenation of formic acid over a palladium-nanoparticle-based Mott-Schottky photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11822-5	16.4	180
25	Synergistic effect of Brønsted acid and platinum on purification of automobile exhaust gases. <i>Scientific Reports</i> , 2013 , 3, 2349	4.9	14

24	Polycondensation of boron- and nitrogen-codoped holey graphene monoliths from molecules: carbocatalysts for selective oxidation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4572-6	16.4	195
23	Metal nanoparticles at mesoporous N-doped carbons and carbon nitrides: functional Mott-Schottky heterojunctions for catalysis. <i>Chemical Society Reviews</i> , 2013 , 42, 6593-604	58.5	595
22	Facilitating room-temperature Suzuki coupling reaction with light: Mott-Schottky photocatalyst for C-C-coupling. <i>Scientific Reports</i> , 2013 , 3,	4.9	137
21	Polycondensation of Boron- and Nitrogen-Codoped Holey Graphene Monoliths from Molecules: Carbocatalysts for Selective Oxidation. <i>Angewandte Chemie</i> , 2013 , 125, 4670-4674	3.6	50
20	Highly Efficient Dehydrogenation of Formic Acid over a Palladium-Nanoparticle-Based Mott-Schottky Photocatalyst. <i>Angewandte Chemie</i> , 2013 , 125, 12038-12041	3.6	54
19	Solvent-Free and Metal-Free Oxidation of Toluene Using O ₂ and g-C ₃ N ₄ with Nanopores: Nanostructure Boosts the Catalytic Selectivity. <i>ACS Catalysis</i> , 2012 , 2, 2082-2086	13.1	198
18	Synthese von Patchwork-Graphen aus Glucose. <i>Angewandte Chemie</i> , 2012 , 124, 9827-9830	3.6	40
17	Synthesis of monolayer-patched graphene from glucose. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9689-92	16.4	332
16	Poly(tetrabutylphosphonium 4-styrenesulfonate): a poly(ionic liquid) stabilizer for graphene being multi-responsive. <i>Polymer Chemistry</i> , 2012 , 3, 871	4.9	84
15	Mesoporous g-C ₃ N ₄ nanorods as multifunctional supports of ultrafine metal nanoparticles: hydrogen generation from water and reduction of nitrophenol with tandem catalysis in one step. <i>Chemical Science</i> , 2012 , 3, 2170	9.4	356
14	A green chemistry of graphene: photochemical reduction towards monolayer graphene sheets and the role of water adlayers. <i>ChemSusChem</i> , 2012 , 5, 642-6	8.3	51
13	Metal-free activation of dioxygen by graphene/g-C ₃ N ₄ nanocomposites: functional dyads for selective oxidation of saturated hydrocarbons. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8074-7	16.4	505
12	Condensed Graphitic Carbon Nitride Nanorods by Nanoconfinement: Promotion of Crystallinity on Photocatalytic Conversion. <i>Chemistry of Materials</i> , 2011 , 23, 4344-4348	9.6	348
11	General synthesis of uniform metal sulfide colloidal particles via autocatalytic surface growth: a self-correcting system. <i>Inorganic Chemistry</i> , 2009 , 48, 3132-8	5.1	16
10	Effect of Surface Cations on Photoelectric Conversion Property of Nanosized Zirconia. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9114-9120	3.8	21
9	Heterometal alkoxides as precursors for the preparation of porous Fe- and Mn-TiO ₂ photocatalysts with high efficiencies. <i>Chemistry - A European Journal</i> , 2008 , 14, 11123-31	4.8	50
8	Spontaneous superlattice formation of ZnO nanocrystals capped with ionic liquid molecules. <i>Chemical Communications</i> , 2007 , 4131-3	5.8	16
7	Controlled synthesis, growth mechanism, and properties of monodisperse CdS colloidal spheres. <i>Chemistry - A European Journal</i> , 2007 , 13, 8754-61	4.8	62

6	A Facile Route to Mesoporous Carbon Catalyst Support Modified with Magnetic Nanoparticles. <i>Chemistry Letters</i> , 2007 , 36, 422-423	1.7	11
5	Synthesis of amphiphilic superparamagnetic ferrite/block copolymer hollow submicrospheres. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8382-3	16.4	136
4	Heterojunction-based electron donators to stabilize and activate ultrafine Pt nanoparticles for efficient hydrogen atom dissociation and gas evolution. <i>Angewandte Chemie</i> ,	3.6	1
3	Accelerating the Activation of NO _x on Ru Nanoparticles for Ammonia Production by Tuning Their Electron Deficiency. <i>CCS Chemistry</i> ,1-8	7.2	0
2	A Polyimide-Based Photocatalyst for Continuous Hydrogen Peroxide Production Using Air and Water under Solar Light. <i>CCS Chemistry</i> ,1-9	7.2	0
1	Design of Functional Carbon Composite Materials for Energy Conversion and Storage. <i>Chemical Research in Chinese Universities</i> ,1	2.2	0