

Baihai Li

List of Publications by Citations

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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.

62

papers

2,434

citations

26

h-index

49

g-index

63

ext. papers

3,108

ext. citations

7.8

avg, IF

5.37

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 62 | MoO ₃ nanosheets for efficient electrocatalytic N ₂ fixation to NH ₃ . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12974-12977 | 13 | 227 |
| 61 | High-Performance N-to-NH Conversion Electrocatalyzed by MoC Nanorod. <i>ACS Central Science</i> , 2019 , 5, 116-121 | 16.8 | 223 |
| 60 | Crystalline Carbon Nitride Supported Copper Single Atoms for Photocatalytic CO Reduction with Nearly 100% CO Selectivity. <i>ACS Nano</i> , 2020 , 14, 10552-10561 | 16.7 | 155 |
| 59 | Theoretical Screening of Single Transition Metal Atoms Embedded in MXene Defects as Superior Electrocatalyst of Nitrogen Reduction Reaction. <i>Small Methods</i> , 2019 , 3, 1900337 | 12.8 | 124 |
| 58 | Enhanced selective CO ₂ adsorption on polyamine/MIL-101(Cr) composites. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14658-14665 | 13 | 98 |
| 57 | An artificial hybrid interphase for an ultrahigh-rate and practical lithium metal anode. <i>Energy and Environmental Science</i> , 2021 , 14, 4115-4124 | 35.4 | 94 |
| 56 | Electrocatalytic Hydrogenation of N to NH by MnO: Experimental and Theoretical Investigations. <i>Advanced Science</i> , 2019 , 6, 1801182 | 13.6 | 92 |
| 55 | The stabilities and electronic structures of single-layer bismuth oxyhalides for photocatalytic water splitting. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25854-61 | 3.6 | 90 |
| 54 | Electrocatalytic N-to-NH conversion with high faradaic efficiency enabled using a Bi nanosheet array. <i>Chemical Communications</i> , 2019 , 55, 5263-5266 | 5.8 | 84 |
| 53 | CrO Nanoparticle-Reduced Graphene Oxide Hybrid: A Highly Active Electrocatalyst for N Reduction at Ambient Conditions. <i>Inorganic Chemistry</i> , 2019 , 58, 2257-2260 | 5.1 | 79 |
| 52 | First-principles study of microporous magnets M-MOF-74 (M = Ni, Co, Fe, Mn): the role of metal centers. <i>Inorganic Chemistry</i> , 2013 , 52, 9356-62 | 5.1 | 79 |
| 51 | Reversible precipitation/dissolution of precious-metal clusters in perovskite-based catalyst materials: Bulk versus surface re-dispersion. <i>Journal of Catalysis</i> , 2012 , 293, 145-148 | 7.3 | 74 |
| 50 | Highly Selective Electrochemical Reduction of CO to Alcohols on an FeP Nanoarray. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 758-762 | 16.4 | 73 |
| 49 | Efficient Hydrogen Evolution Electrocatalysis at Alkaline pH by Interface Engineering of NiP-CeO. <i>Inorganic Chemistry</i> , 2018 , 57, 548-552 | 5.1 | 63 |
| 48 | Kinetically Stabilized Pd@Pt CoreShell Octahedral Nanoparticles with Thin Pt Layers for Enhanced Catalytic Hydrogenation Performance. <i>ACS Catalysis</i> , 2015 , 5, 1335-1343 | 13.1 | 62 |
| 47 | EMnO ₂ as a cathode material for lithium ion batteries from first principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9075-83 | 3.6 | 62 |
| 46 | Theoretical Screening of Single-Atom-Embedded MoSSe Nanosheets for Electrocatalytic N ₂ Fixation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14501-14507 | 3.8 | 52 |

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| 45 | Theoretical Investigation on the Single Transition-Metal Atom-Decorated Defective MoS for Electrocatalytic Ammonia Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36506-36514 | 9.5 | 49 |
| 44 | Alkylthiol surface engineering: an effective strategy toward enhanced electrocatalytic N ₂ -to-NH ₃ fixation by a CoP nanoarray. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13861-13866 | 13 | 45 |
| 43 | Electrocatalytic N ₂ Fixation over Hollow VO ₂ Microspheres at Ambient Conditions. <i>ChemElectroChem</i> , 2019 , 6, 1014-1018 | 4.3 | 43 |
| 42 | Investigation into the effects of sulfur on syngas reforming inside a solid oxide fuel cell. <i>Journal of Power Sources</i> , 2014 , 258, 1-4 | 8.9 | 38 |
| 41 | Vacancy-mediated diffusion of carbon in cobalt and its influence on CO activation. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7848-55 | 3.6 | 34 |
| 40 | CuS concave polyhedral superstructures enabled efficient N ₂ electroreduction to NH ₃ at ambient conditions. <i>Inorganic Chemistry Frontiers</i> , | 6.8 | 32 |
| 39 | Promoting effects of Ce _{0.75} Zr _{0.25} O ₂ on the La _{0.7} Sr _{0.3} MnO ₃ electrocatalyst for the oxygen reduction reaction in metal-air batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6411-6415 | 13 | 30 |
| 38 | Water-free titania-bronze thin films with superfast lithium-ion transport. <i>Advanced Materials</i> , 2014 , 26, 7365-70 | 24 | 30 |
| 37 | Enabling Electrocatalytic N ₂ Reduction to NH ₃ by Y ₂ O ₃ Nanosheet under Ambient Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16622-16627 | 3.9 | 28 |
| 36 | Catalyzed activation of CO ₂ by a Lewis-base site in UiO-66 hybrid metal organic frameworks. <i>Chemical Science</i> , 2012 , 3, 2708 | 9.4 | 26 |
| 35 | Ceria-reduced graphene oxide nanocomposite as an efficient electrocatalyst towards artificial N conversion to NH under ambient conditions. <i>Chemical Communications</i> , 2019 , 55, 10717-10720 | 5.8 | 24 |
| 34 | A Comparative Study of Hydrogen Spillover on Pd and Pt Decorated MoO ₃ (010) Surfaces from First Principles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3052-3058 | 3.8 | 23 |
| 33 | Vapor-Dissociation-Solid Growth of Three-Dimensional Graphite-like Capsules with Delicate Morphology and Atomic-level Thickness Control. <i>Crystal Growth and Design</i> , 2016 , 16, 5040-5048 | 3.5 | 22 |
| 32 | Thermal stress analysis of a planar anode-supported solid oxide fuel cell: Effects of anode porosity. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20239-20248 | 6.7 | 21 |
| 31 | Mg-Doping improves the performance of Ru-based electrocatalysts for the acidic oxygen evolution reaction. <i>Chemical Communications</i> , 2020 , 56, 1749-1752 | 5.8 | 21 |
| 30 | Density functional study of hydrogen spillover on direct Pd-doped metal-organic frameworks IRMOF-1. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5081-5089 | 6.7 | 17 |
| 29 | Origin of Rh and Pd agglomeration on the CeO ₂ (111) surface. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 17 |
| 28 | Highly Selective Electrochemical Reduction of CO ₂ to Alcohols on an FeP Nanoarray. <i>Angewandte Chemie</i> , 2020 , 132, 768-772 | 3.6 | 14 |

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| 27 | La-doped TiO ₂ nanorods toward boosted electrocatalytic N ₂ -to-NH ₃ conversion at ambient conditions. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1755-1762 | 11.3 | 14 |
| 26 | Asymmetric MXene/monolayer transition metal dichalcogenide heterostructures for functional applications. <i>Npj Computational Materials</i> , 2019 , 5, | 10.9 | 13 |
| 25 | Creating high quality Ca:TiO ₂ -B (CaTi ₅ O ₁₁) and TiO ₂ -B epitaxial thin films by pulsed laser deposition. <i>Chemical Communications</i> , 2015 , 51, 8584-7 | 5.8 | 13 |
| 24 | Prompted hydrogenation of carbon nanotubes by doping light metals. <i>Applied Physics Letters</i> , 2008 , 93, 043104 | 3.4 | 13 |
| 23 | Synergistic effects of heteroatom-decorated MXene catalysts for CO reduction reactions. <i>Nanoscale</i> , 2020 , 12, 15880-15887 | 7.7 | 13 |
| 22 | Mechanism of Phosphorus and Chlorine Passivating a Nickel Catalyst: A Density Functional Theory Study. <i>Electrochimica Acta</i> , 2015 , 167, 147-150 | 6.7 | 12 |
| 21 | Co-fabrication of nickel-YSZ cermet nanofibers via an electrospinning technique. <i>Materials Research Bulletin</i> , 2017 , 86, 38-43 | 5.1 | 12 |
| 20 | Fabrication of nickel-YSZ cermet nanofibers via electrospinning. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 1214-1219 | 5.7 | 11 |
| 19 | Spin-flip phenomena at the Co graphene Co interfaces. <i>Applied Physics Letters</i> , 2011 , 98, 133111 | 3.4 | 11 |
| 18 | Visible/infrared light-driven high-efficiency CO ₂ conversion into ethane based on a BiO synergistic catalyst. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22327-22334 | 13 | 11 |
| 17 | A Joint Theoretical and Experimental Study of Phase Equilibria and Evolution in Pt-Doped Calcium Titanate under Redox Conditions. <i>Chemistry of Materials</i> , 2015 , 27, 18-28 | 9.6 | 10 |
| 16 | Surface-termination-dependent Pd bonding and aggregation of nanoparticles on LaFeO ₃ (001). <i>Journal of Chemical Physics</i> , 2013 , 138, 144705 | 3.9 | 9 |
| 15 | First principles study of oxygen adsorption and dissociation on the Pd/Au surface alloys. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7112-20 | 3.6 | 8 |
| 14 | Tunable band gap of N V co-doped Ca:TiO ₂ B (CaTi ₅ O ₁₁) for visible-light photocatalysis. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4716-4723 | 6.7 | 7 |
| 13 | Atomic structure of defects and interfaces in TiO ₂ -B and Ca:TiO ₂ -B (CaTi ₅ O ₁₁) films grown on SrTiO ₃ . <i>CrystEngComm</i> , 2015 , 17, 4309-4315 | 3.3 | 6 |
| 12 | Monopolar Magnetic MOF-74 with Hybrid Node NiBe. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26908-26914 | 5.8 | 5 |
| 11 | A first-principles study of CO oxidation by surface oxygen on Pt-incorporated perovskite catalyst (CaPt _x Ti _{1-x} O ₃). <i>RSC Advances</i> , 2014 , 4, 30530-30535 | 3.7 | 4 |
| 10 | A Dominant Dissociation Mode of cis-Dichloroethylene on Si(100)2 × 1: Adjacent Si Dimer Double Dechlorination. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21797-21804 | 3.8 | 3 |

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| 9 | First-Principles Study of the Ferromagnetic Properties of CrCO and CrNO MXenes. <i>ACS Omega</i> , 2020 , 5, 25848-25853 | 3.9 | 3 |
| 8 | First principles study of single Fe atom supported on TiO ₂ (0 0 1) for nitrogen reduction to ammonia. <i>Applied Surface Science</i> , 2021 , 572, 151417 | 6.7 | 3 |
| 7 | A first-principles study on the adhesion of Pt layers to NiO(100) and IrO ₂ (110) surfaces. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 015003 | 1.8 | 2 |
| 6 | The isomeric effect on the adjacent Si dimer didechlorination of trans and iso-dichloroethylene on Si(100)-2 \times 1. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7121-8 | 3.6 | 2 |
| 5 | Towards prediction of ordered phases in rechargeable battery chemistry via group-subgroup transformation. <i>Npj Computational Materials</i> , 2021 , 7, | 10.9 | 2 |
| 4 | Formation of New Phases to Improve the Visible-Light Photocatalytic Activity of TiO ₂ (B) Via Introducing Alien Elements. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 52-59 | 3.8 | 1 |
| 3 | Cu clusters immobilized on Cd-defective cadmium sulfide nano-rods towards photocatalytic CO ₂ reduction. <i>Journal of Materials Science and Technology</i> , 2022 , 118, 54-63 | 9.1 | 1 |
| 2 | Theoretical study of the rutile based semiconductor with visible-light responsive photocatalytic activity for water splitting. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6131-6137 | 6.7 | 0 |
| 1 | 3-Fold-Periodic Size-Dependence in Electronic Properties of Monolayer-TMDC Nanotriangles. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1346-1352 | 6.4 | |