

Yan-Yan Liu

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,528
citations

201575

27
h-index

197736

49
g-index

51
all docs

51
docs citations

51
times ranked

3235
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Transition metals (Fe, Co, and Ni) encapsulated in nitrogen-doped carbon nanotubes as bi-functional catalysts for oxygen electrode reactions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1694-1701. | 5.2 | 460 |
| 2 | Iron Carbide Nanoparticles Encapsulated in Mesoporous Fe ^N -Doped Graphene-Like Carbon Hybrids as Efficient Bifunctional Oxygen Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21511-21520. | 4.0 | 262 |
| 3 | Co-Co ₃ O ₄ @carbon core-shell shells derived from metal-organic framework nanocrystals as efficient hydrogen evolution catalysts. <i>Nano Research</i> , 2017, 10, 3035-3048. | 5.8 | 106 |
| 4 | Benzylamine oxidation boosted electrochemical water-splitting: Hydrogen and benzonitrile co-production at ultra-thin Ni ₂ P nanomeshes grown on nickel foam. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118393. | 10.8 | 100 |
| 5 | Enhancing effect of Fe-doping on the activity of nano Ni catalyst towards hydrogen evolution from NH ₃ BH ₃ . <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118612. | 10.8 | 100 |
| 6 | CoP nanoparticles anchored on N,P-dual-doped graphene-like carbon as a catalyst for water splitting in non-acidic media. <i>Nanoscale</i> , 2018, 10, 2603-2612. | 2.8 | 96 |
| 7 | Highly dual-doped multilayer nanoporous graphene: efficient metal-free electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12642-12645. | 5.2 | 83 |
| 8 | Multimetallic Ni ^{Mo} /Cu nanowires as nonprecious and efficient full water splitting catalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4207-4214. | 5.2 | 83 |
| 9 | Ensemble-boosting effect of Ru-Cu alloy on catalytic activity towards hydrogen evolution in ammonia borane hydrolysis. <i>Applied Catalysis B: Environmental</i> , 2021, 287, 119960. | 10.8 | 82 |
| 10 | Template-Assisted Synthesis of Co,Mn-MOFs with Magnetic Properties Based on Pyridinedicarboxylic Acid. <i>Crystal Growth and Design</i> , 2012, 12, 3505-3513. | 1.4 | 81 |
| 11 | Magnetic Co@C ₃ N ₄ Core-Shell on rGO Sheets for Momentum Transfer with Catalytic Activity toward Continuous-Flow Hydrogen Generation. <i>Langmuir</i> , 2016, 32, 6272-6281. | 1.6 | 67 |
| 12 | Tuning surface d charge of Ni-Ru alloys for unprecedented catalytic activity towards hydrogen generation from ammonia borane hydrolysis. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120094. | 10.8 | 66 |
| 13 | Defect-Rich, Graphenelike Carbon Sheets Derived from Biomass as Efficient Electrocatalysts for Rechargeable Zinc-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2981-2989. | 3.2 | 65 |
| 14 | Structural Evolution of Co-Based Metal Organic Frameworks in Pyrolysis for Synthesis of Core-Shell on Nanosheets: Co@CoO _x @Carbon-rGO Composites for Enhanced Hydrogen Generation Activity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15430-15438. | 4.0 | 53 |
| 15 | Surface Phosphorus-Induced CoO Coupling to Monolithic Carbon for Efficient Air Electrode of Quasi-Solid-State Zn-Air Batteries. <i>Advanced Science</i> , 2021, 8, e2101314. | 5.6 | 51 |
| 16 | Birdcage-Type CoO _x -Carbon Catalyst Derived from Metal-Organic Frameworks for Enhanced Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9782-9792. | 3.2 | 48 |
| 17 | Wood-Derived Integral Air Electrode for Enhanced Interfacial Electrocatalysis in Rechargeable Zinc-Air Battery. <i>Small</i> , 2021, 17, e2101607. | 5.2 | 47 |
| 18 | Defect-rich (Co ₂) _x @Co ₉ S ₈ nanosheets derived from monomolecular precursor pyrolysis with excellent catalytic activity for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7977-7987. | 5.2 | 46 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | External Template-Assisted Self-Assembly: Design and Synthesis of 4,4'-bipy-Based Mo(W)/Cu/S Heterothiometallic Polymeric Clusters Directed by 1,1'-Bis(pyridinium)methylene Cation. <i>Crystal Growth and Design</i> , 2011, 11, 3448-3455. | 1.4 | 42 |
| 20 | Efficient carbon-based catalyst derived from natural cattail fiber for hydrogen evolution reaction. <i>Journal of Solid State Chemistry</i> , 2019, 274, 207-214. | 1.4 | 42 |
| 21 | Atomic-bridge structure in B-Co-P dual-active sites on boron nitride nanosheets for catalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121495. | 10.8 | 40 |
| 22 | Magnetic catalysts as nanoactuators to achieve simultaneous momentum-transfer and continuous-flow hydrogen production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4280-4287. | 5.2 | 35 |
| 23 | Reaction of Co ₃ O ₄ Nanocrystals on Graphene Sheets to Fabricate Excellent Catalysts for Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8427-8436. | 3.2 | 35 |
| 24 | Hierarchically porous AlPO-5-based microspheres as heterogeneous catalysts for the synthesis of 5-substituted 1H-tetrazoles via [3+2] cycloaddition. <i>New Journal of Chemistry</i> , 2014, 38, 3078-3083. | 1.4 | 34 |
| 25 | Nitrogen and phosphorus modification to enhance the catalytic activity of biomass-derived carbon toward the oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2707-2717. | 2.5 | 32 |
| 26 | Ru-Fe nanoalloys supported on N-doped carbon as efficient catalysts for hydrogen generation from ammonia borane. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3677-3686. | 2.5 | 31 |
| 27 | Catalytically Active Carbon From Cattail Fibers for Electrochemical Reduction Reaction. <i>Frontiers in Chemistry</i> , 2019, 7, 786. | 1.8 | 29 |
| 28 | Coupling Fe ₃ C Nanoparticles and N-Doping on Wood-Derived Carbon to Construct Reversible Cathode for Zn-Air Batteries. <i>Small</i> , 2022, 18, . | 5.2 | 29 |
| 29 | Nitrogen-doped Fe ₃ C@C particles as an efficient heterogeneous photo-assisted Fenton catalyst. <i>RSC Advances</i> , 2017, 7, 15168-15175. | 1.7 | 26 |
| 30 | Local Plant-Derived Carbon Sheets as Sustainable Catalysts for Efficient Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2107-2115. | 3.2 | 26 |
| 31 | Atomic Interface-Exciting Catalysis on Cobalt Nitride-Oxide for Accelerating Hydrogen Generation. <i>Small</i> , 2022, 18, e2107417. | 5.2 | 25 |
| 32 | Wood-derived integrated air electrode with Co-N sites for rechargeable zinc-air batteries. <i>Nano Research</i> , 2022, 15, 1415-1423. | 5.8 | 22 |
| 33 | Magnetic CoOx@C-Reduced graphene oxide composite with catalytic activity towards hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28163-28172. | 3.8 | 17 |
| 34 | Bi ₂ S ₃ Nanorods Hosted on rGO Sheets from Pyrolysis of Molecular Precursors for Efficient Li-Ion Storage. <i>Energy and Environmental Materials</i> , 2021, 4, 577-585. | 7.3 | 17 |
| 35 | Co ₂ N Nanoparticles Anchored on N-Doped Active Carbon as Catalyst for Oxygen Reduction Reaction in Zinc-Air Battery. <i>Energy and Environmental Materials</i> , 2022, 5, 935-943. | 7.3 | 17 |
| 36 | Co-, Fe-, and N-Modified Carbon Composites for Excellent Catalytic Performances toward Electrochemical Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8744-8754. | 3.2 | 14 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Pitaya pulp structural cobalt-carbon composite for efficient hydrogen generation from borohydride hydrolysis. <i>Journal of Alloys and Compounds</i> , 2019, 808, 151774. | 2.8 | 13 |
| 38 | Advances and Prospects in Metal-Organic Frameworks as Key Nexus for Chemocatalytic Hydrogen Production. <i>Small</i> , 2021, 17, e2102201. | 5.2 | 12 |
| 39 | Engineering Vacancy-Atom Ensembles to Boost Catalytic Activity toward Hydrogen Evolution. <i>Energy and Environmental Materials</i> , 2023, 6, . | 7.3 | 12 |
| 40 | Anchoring superparamagnetic core-shells onto reduced graphene oxide: fabrication of Ni-carbon-rGO nanocomposite for effective adsorption and separation. <i>RSC Advances</i> , 2015, 5, 10033-10039. | 1.7 | 11 |
| 41 | Interfacial effect of Co ₄ S ₃ -Co ₉ S ₈ nanoparticles hosted on rGO sheets derived from molecular precursor pyrolysis on enhancing electrochemical behaviour. <i>Catalysis Science and Technology</i> , 2020, 10, 3622-3634. | 2.1 | 11 |
| 42 | Co-Based Nanoparticles Fabricated on Ni Foams for Efficient Hydrogen Generation from Ammonia Borane. <i>ACS Applied Nano Materials</i> , 2022, 5, 5064-5074. | 2.4 | 11 |
| 43 | Co/N-Doped hierarchical porous carbon as an efficient oxygen electrocatalyst for rechargeable Zn-air battery. <i>RSC Advances</i> , 2021, 11, 15753-15761. | 1.7 | 10 |
| 44 | Molybdenum, Cobalt Sulfide-Modified N-, S-Doped Graphene from Low-Temperature Molecular Pyrolysis: Mutual Activation Effect for Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19442-19452. | 3.2 | 9 |
| 45 | An assembly of carbon dots and carbon sheets from plant biomass for excellent oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3172-3181. | 2.5 | 9 |
| 46 | Improving the anode performances of TiO ₂ -carbon-rGO composites in lithium ion batteries by UV irradiation. <i>New Journal of Chemistry</i> , 2015, 39, 9345-9350. | 1.4 | 6 |
| 47 | Nanoporous Carbon Derived from Core-Shells@Sheets through the Template-Activation Method for Effective Adsorption of Dyes. <i>ACS Omega</i> , 2016, 1, 491-497. | 1.6 | 5 |
| 48 | The Proportion of Fe _x N _x , N Doping Species and Fe ₃ C to Oxygen Catalytic Activity in Core-Shell Fe _x N _x /C Electrocatalyst. <i>Chemistry - an Asian Journal</i> , 2020, 15, 310-318. | 1.7 | 4 |
| 49 | Hollow carbonaceous microspheres-reduced graphene oxide enhances lithium storage performance of SnO ₂ -based anode. <i>Journal of Solid State Chemistry</i> , 2019, 270, 553-562. | 1.4 | 3 |
| 50 | Co@C,MnO-NAC <i>via</i> selective wrapping for effective oxygen electrocatalysis in rechargeable Zn-air batteries. <i>Sustainable Energy and Fuels</i> , 2022, 6, 791-799. | 2.5 | 2 |
| 51 | Ru@Carbon Nanotube Composite Microsponge: Fabrication in Supercritical CO ₂ for Hydrogenation of p-Chloronitrobenzene. <i>Nanomaterials</i> , 2022, 12, 539. | 1.9 | 1 |