# Jun Luo

List of Publications by Year
in descending order



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|---|---|---|---|
| 232 papers | 26,092 citations | 4388 86 h-index | 6836 155 g-index |
| 242 all docs | 242 docs citations | 242 times ranked | 19180 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Self-driven dual hydrogen production system based on a bifunctional single-atomic Rh catalyst. Journal of Materials Chemistry A, 2022, 10, 6134-6145. | 10.3 | 34 |
| 2 | Nitrogenâ€Doped Carbon Polyhedrons Confined Feâ€“P Nanocrystals as Highâ€Efficiency Bifunctional Catalysts for Aqueous Znâ^'CO<sub>2</sub> Batteries. Small, 2022, 18, e2104965. | 10.0 | 39 |
| 3 | Integration of partially phosphatized bimetal centers into trifunctional catalyst for high-performance hydrogen production and flexible Zn-air battery. Science China Materials, 2022, 65, 1176-1186. | 6.3 | 44 |
| 4 | Highly dispersed Bi clusters for efficient rechargeable Znâ^'CO2 batteries. Applied Catalysis B: Environmental, 2022, 307, 121145. | 20.2 | 64 |
| 5 | General heterostructure strategy of photothermal materials for scalable solar-heating hydrogen production without the consumption of artificial energy. Nature Communications, 2022, 13, 776. | 12.8 | 56 |
| 6 | S vacancies in 2D SnS2 accelerating hydrogen evolution reaction. Science China Materials, 2022, 65, 1833-1841. | 6.3 | 19 |
| 7 | Highly dispersed Ag clusters for active and stable hydrogen peroxide production. Nano Research, 2022, 15, 5842-5847. | 10.4 | 34 |
| 8 | Selective CO-to-acetate electroreduction via intermediate adsorption tuning on ordered Cuâ€“Pd sites. Nature Catalysis, 2022, 5, 251-258. | 34.4 | 118 |
| 9 | Coordination environment engineering to boost electrocatalytic CO2 reduction performance by introducing boron into single-Fe-atomic catalyst. Chemical Engineering Journal, 2022, 437, 135294. | 12.7 | 77 |
| 10 | Hollow CoFe-layered double hydroxide polyhedrons for highly efficient CO2 electrolysis. Science China Materials, 2022, 65, 536-542. | 6.3 | 47 |
| 11 | Atomically Intimate Solid Electrolyte/Electrode Contact Capable of Surviving Long-Term Cycling with Repeated Phase Transitions. Nano Letters, 2022, 22, 3457-3464. | 9.1 | 5 |
| 12 | Frenkel-defected monolayer MoS2 catalysts for efficient hydrogen evolution. Nature Communications, 2022, 13, 2193. | 12.8 | 137 |
| 13 | Accelerating hydrazine-assisted hydrogen production kinetics with Mn dopant modulated CoS<sub>2</sub> nanowire arrays. Inorganic Chemistry Frontiers, 2022, 9, 3047-3058. | 6.0 | 53 |
| 14 | A single-atom library for guided monometallic and concentration-complex multimetallic designs. Nature Materials, 2022, 21, 681-688. | 27.5 | 145 |
| 15 | Metal-Confined Synthesis of ZnS<sub>2</sub> Monolayer Catalysts for Dinitrogen Electroreduction. ACS Catalysis, 2022, 12, 6809-6815. | 11.2 | 6 |
| 16 | Design of Ru-Ni diatomic sites for efficient alkaline hydrogen oxidation. Science Advances, 2022, 8, . | 10.3 | 89 |
| 17 | Polycrystalline SnS<sub>x</sub> nanofilm enables CO<sub>2</sub> electroreduction to formate with high current density. Chemical Communications, 2022, 58, 7654-7657. | 4.1 | 76 |
| 18 | NiFe layered double hydroxide nanosheet array for high-efficiency electrocatalytic reduction of nitric oxide to ammonia. Chemical Communications, 2022, 58, 8097-8100. | 4.1 | 79 |

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|---|---|---|---|
| 19 | Nitrogen-incorporated iron phosphosulfide nanosheets as efficient bifunctional electrocatalysts for energy-saving hydrogen evolution. Ionics, 2022, 28, 3927-3934. | 2.4 | 34 |
| 20 | Preparation of high entropy alloys and application to catalytical water electrolysis. APL Materials, 2022, 10, . | 5.1 | 45 |
| 21 | Recent advances in non-noble metal-based bifunctional electrocatalysts for overall seawater splitting. Journal of Alloys and Compounds, 2022, 922, 166113. | 5.5 | 66 |
| 22 | Propane Dehydrogenation on Single-Site [PtZn4] Intermetallic Catalysts. CheM, 2021, 7, 387-405. | 11.7 | 116 |
| 23 | Boost oxygen reduction reaction performance by tuning the active sites in Fe-N-P-C catalysts. Journal of Energy Chemistry, 2021, 55, 572-579. | 12.9 | 29 |
| 24 | Modulating Singleâ€Atom Palladium Sites with Copper for Enhanced Ambient Ammonia Electrosynthesis. Angewandte Chemie, 2021, 133, 349-354. | 2.0 | 44 |
| 25 | Alloyed Palladiumâ€“Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate. Advanced Materials, 2021, 33, e2005821. | 21.0 | 73 |
| 26 | Atomic Fe-Zn dual-metal sites for high-efficiency pH-universal oxygen reduction catalysis. Nano Research, 2021, 14, 1374-1381. | 10.4 | 148 |
| 27 | Modulating Singleâ€Atom Palladium Sites with Copper for Enhanced Ambient Ammonia Electrosynthesis. Angewandte Chemie - International Edition, 2021, 60, 345-350. | 13.8 | 150 |
| 28 | Palladiumâ€“Silver Nanowires: Alloyed Palladiumâ€“Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate (Adv. Mater. 4/2021). Advanced Materials, 2021, 33, 2170027. | 21.0 | 1 |
| 29 | Rh nanoparticle functionalized heteroatom-doped hollow carbon spheres for efficient electrocatalytic hydrogen evolution. Materials Chemistry Frontiers, 2021, 5, 3125-3131. | 5.9 | 24 |
| 30 | Revealing the Role of Fluorideâ€Rich Battery Electrode Interphases by Operando Transmission Electron Microscopy. Advanced Energy Materials, 2021, 11, 2003118. | 19.5 | 54 |
| 31 | Multi-shelled hollow layered double hydroxides with enhanced performance for the oxygen evolution reaction. Chemical Communications, 2021, 57, 2752-2755. | 4.1 | 23 |
| 32 | Isolated copper single sites for high-performance electroreduction of carbon monoxide to multicarbon products. Nature Communications, 2021, 12, 238. | 12.8 | 169 |
| 33 | Nitrogen dopant induced highly selective CO<sub>2</sub> reduction over lotus-leaf shaped ZnO nanorods. Materials Chemistry Frontiers, 2021, 5, 4225-4230. | 5.9 | 20 |
| 34 | Metalâ€Free Bifunctional Ordered Mesoporous Carbon for Reversible Znâ€CO<sub>2</sub> Batteries. Small Methods, 2021, 5, e2001039. | 8.6 | 60 |
| 35 | Bifunctional single-atomic Mn sites for energy-efficient hydrogen production. Nanoscale, 2021, 13, 4767-4773. | 5.6 | 26 |
| 36 | Unraveling Enhanced Activity, Selectivity, and Coke Resistance of Ptâ€“Ni Bimetallic Clusters in Dry Reforming. ACS Catalysis, 2021, 11, 2398-2411. | 11.2 | 83 |

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|---|---|---|---|
| 37 | Notched-Polyoxometalate Strategy to Fabricate Atomically Dispersed Ru Catalysts for Biomass Conversion. ACS Catalysis, 2021, 11, 2669-2675. | 11.2 | 34 |
| 38 | Highly Selective Synthesis of Monolayer or Bilayer WSe<sub>2</sub> Single Crystals by Pre-annealing the Solid Precursor. Chemistry of Materials, 2021, 33, 1307-1313. | 6.7 | 20 |
| 39 | Unveiling the Nature of Pt Singleâ€Atom Catalyst during Electrocatalytic Hydrogen Evolution and Oxygen Reduction Reactions. Small, 2021, 17, e2007245. | 10.0 | 91 |
| 40 | Atomic Design and Fine-Tuning of Subnanometric Pt Catalysts to Tame Hydrogen Generation. ACS Catalysis, 2021, 11, 4146-4156. | 11.2 | 52 |
| 41 | Electrochemical nitrogen fixation via bimetallic Sn-Ti sites on defective titanium oxide catalysts. Journal of Colloid and Interface Science, 2021, 588, 242-247. | 9.4 | 9 |
| 42 | Two-Dimensional Palladiumâ€“Copper Alloy Nanodendrites for Highly Stable and Selective Electrochemical Formate Production. Nano Letters, 2021, 21, 4092-4098. | 9.1 | 59 |
| 43 | Modification of the Coordination Environment of Active Sites on MoC for Highâ€Efficiency CH<sub>4</sub> Production. Advanced Energy Materials, 2021, 11, 2100044. | 19.5 | 21 |
| 44 | Dual-Doping Promotes the Carbon Dioxide Electroreduction Activity of MoS<sub>2</sub> Nanosheet Array. ACS Applied Energy Materials, 2021, 4, 7492-7496. | 5.1 | 14 |
| 45 | Surface Oxidized Ag Nanofilms Towards Highly Effective CO 2 Reduction. ChemElectroChem, 2021, 8, 3579-3583. | 3.4 | 7 |
| 46 | Ag-decorated GaN for high-efficiency photoreduction of carbon dioxide into tunable syngas under visible light. Nanotechnology, 2021, 32, 505722. | 2.6 | 7 |
| 47 | Coralloid Au enables high-performance Znâ€“CO<sub>2</sub> battery and self-driven CO production. Journal of Materials Chemistry A, 2021, 9, 21024-21031. | 10.3 | 31 |
| 48 | Heteroatom coordination induces electric field polarization of single Pt sites to promote hydrogen evolution activity. Nanoscale, 2021, 13, 7134-7139. | 5.6 | 26 |
| 49 | Thein situremoval of surface molybdenum oxide for making binder-free porous Mo<sub>1.98</sub>C<sub>1.02</sub>film a more efficient electrocatalyst for alkaline rather than acidic hydrogen production. Sustainable Energy and Fuels, 2021, 5, 3373-3381. | 4.9 | 4 |
| 50 | Simultaneous oxidative and reductive reactions in one system by atomic design. Nature Catalysis, 2021, 4, 134-143. | 34.4 | 132 |
| 51 | Local Modulation of Single-Atomic Mn Sites for Enhanced Ambient Ammonia Electrosynthesis. ACS Catalysis, 2021, 11, 509-516. | 11.2 | 93 |
| 52 | Tailoring electronic properties and kinetics behaviors of Pd/Nâ€CNTs catalysts for selective hydrogenation of acetylene. AICHE Journal, 2020, 66, e16857. | 3.6 | 28 |
| 53 | Self-supported NbSe2 nanosheet arrays for highly efficient ammonia electrosynthesis under ambient conditions. Journal of Catalysis, 2020, 381, 78-83. | 6.2 | 53 |
| 54 | Dual-functional interfaces for highly stable Ni-rich layered cathodes in sulfide all-solid-state batteries. Energy Storage Materials, 2020, 27, 117-123. | 18.0 | 109 |

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|---|---|---|---|
| 55 | Ruthenium‐Doped Cobalt–Chromium Layered Double Hydroxides for Enhancing Oxygen Evolution through Regulating Charge Transfer. Small, 2020, 16, e1905328. | 10.0 | 80 |
| 56 | Ultrafast growth of large single crystals of monolayer WS2 and WSe2. National Science Review, 2020, 7, 737-744. | 9.5 | 64 |
| 57 | Electrochemical CO<sub>2</sub> reduction: from nanoclusters to single atom catalysts. Sustainable Energy and Fuels, 2020, 4, 1012-1028. | 4.9 | 69 |
| 58 | Breaking the Si/Al Limit of Nanosized Î² Zeolites: Promoting Catalytic Production of Lactide. Chemistry of Materials, 2020, 32, 751-758. | 6.7 | 35 |
| 59 | Construction of MnO<sub>2</sub> Artificial Leaf with Atomic Thickness as Highly Stable Battery Anodes. Advanced Materials, 2020, 32, e1906582. | 21.0 | 57 |
| 60 | Oxygen Doping Induced by Nitrogen Vacancies in Nb<sub>4</sub>N<sub>5</sub> Enables Highly Selective CO<sub>2</sub> Reduction. Small, 2020, 16, e1905825. | 10.0 | 38 |
| 61 | Visualization of Shallow‐Groove Expansion of Au(111) Facet under Methane Pyrolysis. Advanced Materials Interfaces, 2020, 7, 2001245. | 3.7 | 1 |
| 62 | Anomalous detwinning in constrained Cu nanoparticles. Nanoscale, 2020, 12, 14831-14837. | 5.6 | 1 |
| 63 | Trifunctional Single‐Atomic Ru Sites Enable Efficient Overall Water Splitting and Oxygen Reduction in Acidic Media. Small, 2020, 16, e2002888. | 10.0 | 120 |
| 64 | In-situ visualization of the space-charge-layer effect on interfacial lithium-ion transport in all-solid-state batteries. Nature Communications, 2020, 11, 5889. | 12.8 | 145 |
| 65 | Inverse ZrO2/Cu as a highly efficient methanol synthesis catalyst from CO2 hydrogenation. Nature Communications, 2020, 11, 5767. | 12.8 | 197 |
| 66 | Bifunctional Electrocatalysts: Cobalt‐Iron Oxide Nanosheets for High‐Efficiency Solar‐Driven CO<sub>2</sub>–H<sub>2</sub>O Coupling Electrocatalytic Reactions (Adv. Funct. Mater. 31/2020). Advanced Functional Materials, 2020, 30, 2070211. | 14.9 | 0 |
| 67 | Revealing the Correlation between Catalytic Selectivity and the Local Coordination Environment of Pt Single Atom. Nano Letters, 2020, 20, 6865-6872. | 9.1 | 42 |
| 68 | Transition metal macrocycles for heterogeneous electrochemical CO2 reduction. Coordination Chemistry Reviews, 2020, 422, 213435. | 18.8 | 88 |
| 69 | Atomic iron on mesoporous N-doped carbon to achieve dehydrogenation reaction at room temperature. Nano Research, 2020, 13, 3075-3081. | 10.4 | 23 |
| 70 | Atomic observation of phase transition in layered SnS2 driven by in situ heating and electron beam irradiation. Applied Physics Letters, 2020, 117, . | 3.3 | 7 |
| 71 | Semimetal 1H‐SnS<sub>2</sub> Enables High‐Efficiency Electroreduction of CO<sub>2</sub> to CO. Small Methods, 2020, 4, 2000567. | 8.6 | 48 |
| 72 | Ambient electrosynthesis of ammonia with efficient denitration. Nano Energy, 2020, 78, 105321. | 16.0 | 110 |

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|---|---|---|---|
| 73 | Inside Front Cover: Rh<sub>2</sub>S<sub>3</sub>/Nâ€Doped Carbon Hybrids as pHâ€Universal Bifunctional Electrocatalysts for Energyâ€Saving Hydrogen Evolution (Small Methods 9/2020). Small Methods, 2020, 4, 2070035. | 8.6 | 0 |
| 74 | Estimation of the spatial distribution of Frenkel defects in NiFe2O4 by simulation of HAADF-STEM images. Nanoscale, 2020, 12, 22668-22673. | 5.6 | 1 |
| 75 | Engineering Atomic Sites via Adjacent Dualâ€Metal Subâ€Nanoclusters for Efficient Oxygen Reduction Reaction and Znâ€Air Battery. Small, 2020, 16, e2004855. | 10.0 | 53 |
| 76 | X-ray imaging of atomic nuclei. Science China Materials, 2020, 63, 1788-1796. | 6.3 | 5 |
| 77 | Stable and Efficient Single-Atom Zn Catalyst for CO<sub>2</sub> Reduction to CH<sub>4</sub>. Journal of the American Chemical Society, 2020, 142, 12563-12567. | 13.7 | 358 |
| 78 | Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general hostâ€“guest strategy. Nature Chemistry, 2020, 12, 764-772. | 13.6 | 452 |
| 79 | Coupling N2 and CO2 in H2O to synthesize urea under ambient conditions. Nature Chemistry, 2020, 12, 717-724. | 13.6 | 485 |
| 80 | Current-Density-Dependent Electroplating in Ca Electrolytes: From Globules to Dendrites. ACS Energy Letters, 2020, 5, 2283-2290. | 17.4 | 44 |
| 81 | Nitrogen doping and titanium vacancies synergistically promote CO<sub>2</sub>fixation in seawater. Nanoscale, 2020, 12, 17191-17195. | 5.6 | 23 |
| 82 | Cobaltâ”Iron Oxide Nanosheets for Highâ€Efficiency Solarâ€Driven CO<sub>2</sub>â”H<sub>2</sub>O Coupling Electrocatalytic Reactions. Advanced Functional Materials, 2020, 30, 2003438. | 14.9 | 65 |
| 83 | Highly Productive Electrosynthesis of Ammonia by Admolecule-Targeting Single Ag Sites. ACS Nano, 2020, 14, 6938-6946. | 14.6 | 119 |
| 84 | Isolated single-atom Pt sites for highly selective electrocatalytic hydrogenation of formaldehyde to methanol. Journal of Materials Chemistry A, 2020, 8, 8913-8919. | 10.3 | 33 |
| 85 | General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374. | 27.8 | 393 |
| 86 | Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. Nature Communications, 2020, 11, 1263. | 12.8 | 198 |
| 87 | Eliminating the Detrimental Effects of Conductive Agents in Sulfide-Based Solid-State Batteries. ACS Energy Letters, 2020, 5, 1243-1251. | 17.4 | 80 |
| 88 | Enhanced CO<sub>2</sub> Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. Angewandte Chemie - International Edition, 2020, 59, 12664-12668. | 13.8 | 164 |
| 89 | Active and Stable Ptâ€“Ni Alloy Octahedra Catalyst for Oxygen Reduction via Near-Surface Atomical Engineering. ACS Catalysis, 2020, 10, 4205-4214. | 11.2 | 98 |
| 90 | Single Cu Atoms as Catalysts for Efficient Hydrazine Oxidation Reaction. ChemNanoMat, 2020, 6, 1474-1478. | 2.8 | 7 |

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| 91 | Cation-Exchange Induced Precise Regulation of Single Copper Site Triggers Room-Temperature Oxidation of Benzene. Journal of the American Chemical Society, 2020, 142, 12643-12650. | 13.7 | 110 |
| 92 | Single-unit-cell-thick layered electrocatalysts: from synthesis to application. Nanoscale Advances, 2020, 2, 2678-2687. | 4.6 | 1 |
| 93 | Mechanical reliability, thermal stability and thermoelectric performance of the transition-metal nitride CrN. Philosophical Magazine Letters, 2020, 100, 128-139. | 1.2 | 5 |
| 94 | Intermediate Structures of Nucleation and Growth during Solidification of CuO Constrained by Graphene. Advanced Materials Interfaces, 2020, 7, 1902047. | 3.7 | 3 |
| 95 | Visualization of crystal plane selectivity for irreversible phase transition in MnO@C anode. Chemical Communications, 2020, 56, 3753-3756. | 4.1 | 8 |
| 96 | Single-Atom Au<sup>I</sup>â€“N<sub>3</sub> Site for Acetylene Hydrochlorination Reaction. ACS Catalysis, 2020, 10, 1865-1870. | 11.2 | 76 |
| 97 | Recover the activity of sintered supported catalysts by nitrogen-doped carbon atomization. Nature Communications, 2020, 11, 335. | 12.8 | 69 |
| 98 | Amorphous MoOX-Stabilized single platinum atoms with ultrahigh mass activity for acidic hydrogen evolution. Nano Energy, 2020, 70, 104529. | 16.0 | 142 |
| 99 | CO<sub>2</sub> Reduction: Oxygen Doping Induced by Nitrogen Vacancies in Nb<sub>4</sub>N<sub>5</sub> Enables Highly Selective CO<sub>2</sub> Reduction (Small 2/2020). Small, 2020, 16, 2070007. | 10.0 | 1 |
| 100 | Enamel Repair with Amorphous Ceramics. Advanced Materials, 2020, 32, e1907067. | 21.0 | 30 |
| 101 | Enhanced CO<sub>2</sub> Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. Angewandte Chemie, 2020, 132, 12764-12768. | 2.0 | 23 |
| 102 | Subnano Ruthenium Species Anchored on Tin Dioxide Surface for Efficient Alkaline Hydrogen Evolution Reaction. Cell Reports Physical Science, 2020, 1, 100026. | 5.6 | 16 |
| 103 | Strong Metalâ€“Support Interactions between Pt Single Atoms and TiO<sub>2</sub>. Angewandte Chemie, 2020, 132, 11922-11927. | 2.0 | 46 |
| 104 | Advanced Matrixes for Binderâ€Free Nanostructured Electrodes in Lithiumâ€Ion Batteries. Advanced Materials, 2020, 32, e1908445. | 21.0 | 108 |
| 105 | Strong Metalâ€“Support Interactions between Pt Single Atoms and TiO<sub>2</sub>. Angewandte Chemie - International Edition, 2020, 59, 11824-11829. | 13.8 | 309 |
| 106 | Single-atom-layer traps in a solid electrolyte for lithium batteries. Nature Communications, 2020, 11, 1828. | 12.8 | 35 |
| 107 | Dynamic co-catalysis of Au single atoms and nanoporous Au for methane pyrolysis. Nature Communications, 2020, 11, 1919. | 12.8 | 65 |
| 108 | Rh<sub>2</sub>S<sub>3</sub>/Nâ€Doped Carbon Hybrids as pHâ€Universal Bifunctional Electrocatalysts for Energyâ€Saving Hydrogen Evolution. Small Methods, 2020, 4, 2000208. | 8.6 | 45 |

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|---|---|---|---|
| 109 | Monolayer goldene intercalated in graphene layers. Applied Physics Letters, 2020, 117, . | 3.3 | 4 |
| 110 | Structural Characterization and Identification of Graphdiyne and Graphdiyne-Based Materials. ACS Applied Materials & Interfaces, 2019, 11, 2717-2729. | 8.0 | 62 |
| 111 | Edge-Contact Geometry and Anion-Deficit Construction for Activating Ultrathin MoS<sub>2</sub> on W<sub>17</sub>O<sub>47</sub> in the Hydrogen Evolution Reaction. Inorganic Chemistry, 2019, 58, 11241-11247. | 4.0 | 10 |
| 112 | Enhanced catalytic performance of zinc oxide nanorods with crystal plane control. CrystEngComm, 2019, 21, 5526-5532. | 2.6 | 20 |
| 113 | Boosting hydrogen evolution activity of vanadyl pyrophosphate nanosheets for electrocatalytic overall water splitting. Chemical Communications, 2019, 55, 10511-10514. | 4.1 | 22 |
| 114 | Superstructures: Directing Gold Nanoparticles into Freeâ€Standing Honeycombâ€Like Ordered Mesoporous Superstructures (Small 31/2019). Small, 2019, 15, 1970165. | 10.0 | 0 |
| 115 | Shape-Engineered Synthesis of Atomically Thin 1T-SnS<sub>2</sub> Catalyzed by Potassium Halides. ACS Nano, 2019, 13, 8265-8274. | 14.6 | 51 |
| 116 | Singleâ€Atom Catalysts for the Electrocatalytic Reduction of Nitrogen to Ammonia under Ambient Conditions. Chemistry - an Asian Journal, 2019, 14, 2770-2779. | 3.3 | 32 |
| 117 | AuCu Alloy Nanoparticle Embedded Cu Submicrocone Arrays for Selective Conversion of CO<sub>2</sub> to Ethanol. Small, 2019, 15, e1902229. | 10.0 | 83 |
| 118 | Mesoporous Nitrogenâ€Doped Carbonâ€Nanosphereâ€Supported Isolated Singleâ€Atom Pd Catalyst for Highly Efficient Semihydrogenation of Acetylene. Advanced Materials, 2019, 31, e1901024. | 21.0 | 146 |
| 119 | NiCu Bimetallic Nanoparticles on Silica Support for Catalytic Hydrolysis of Ammonia Borane: Composition-Dependent Activity and Support Size Effect. ACS Applied Energy Materials, 2019, 2, 5851-5861. | 5.1 | 53 |
| 120 | Doping strain induced bi-Ti3+ pairs for efficient N2 activation and electrocatalytic fixation. Nature Communications, 2019, 10, 2877. | 12.8 | 279 |
| 121 | Ambient Synthesis of Singleâ€Atom Catalysts from Bulk Metal via Trapping of Atoms by Surface Dangling Bonds. Advanced Materials, 2019, 31, e1904496. | 21.0 | 114 |
| 122 | Ethanolâ€Selectivity: AuCu Alloy Nanoparticle Embedded Cu Submicrocone Arrays for Selective Conversion of CO<sub>2</sub> to Ethanol (Small 37/2019). Small, 2019, 15, 1970193. | 10.0 | 3 |
| 123 | Singleâ€Atom Catalysts: Ambient Synthesis of Singleâ€Atom Catalysts from Bulk Metal via Trapping of Atoms by Surface Dangling Bonds (Adv. Mater. 44/2019). Advanced Materials, 2019, 31, 1970316. | 21.0 | 1 |
| 124 | Modulating Lattice Oxygen in Dual-Functional Moâ€“Vâ€“O Mixed Oxides for Chemical Looping Oxidative Dehydrogenation. Journal of the American Chemical Society, 2019, 141, 18653-18657. | 13.7 | 133 |
| 125 | A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. Angewandte Chemie, 2019, 131, 18559-18564. | 2.0 | 20 |
| 126 | A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. Angewandte Chemie - International Edition, 2019, 58, 18388-18393. | 13.8 | 69 |

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| 127 | Spinel/Lithiumâ€Rich Manganese Oxide Hybrid Nanofibers as Cathode Materials for Rechargeable Lithiumâ€Ion Batteries. Small Methods, 2019, 3, 1900350. | 8.6 | 44 |
| 128 | Vertical Stacking of Copper Sulfide Nanoparticles and Molybdenum Sulfide Nanosheets for Enhanced Nonlinear Absorption. ACS Applied Materials & Interfaces, 2019, 11, 35835-35844. | 8.0 | 7 |
| 129 | Regulating the coordination structure of single-atom Fe-NxCy catalytic sites for benzene oxidation. Nature Communications, 2019, 10, 4290. | 12.8 | 326 |
| 130 | Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. ACS Energy Letters, 2019, 4, 2480-2488. | 17.4 | 154 |
| 131 | Cobalt single-atoms anchored on porphyrinic triazine-based frameworks as bifunctional electrocatalysts for oxygen reduction and hydrogen evolution reactions. Journal of Materials Chemistry A, 2019, 7, 1252-1259. | 10.3 | 152 |
| 132 | g-C<sub>3</sub>N<sub>4</sub> promoted MOF derived hollow carbon nanopolyhedra doped with high density/fraction of single Fe atoms as an ultra-high performance non-precious catalyst towards acidic ORR and PEM fuel cells. Journal of Materials Chemistry A, 2019, 7, 5020-5030. | 10.3 | 152 |
| 133 | Porous Mnâ€Doped FeP/Co<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub> Nanosheets as Efficient Electrocatalysts for Overall Water Splitting in a Wide pH Range. ChemSusChem, 2019, 12, 1334-1341. | 6.8 | 78 |
| 134 | Upraising the O 2p Orbital by Integrating Ni with MoO<sub>2</sub> for Accelerating Hydrogen Evolution Kinetics. ACS Catalysis, 2019, 9, 2275-2285. | 11.2 | 165 |
| 135 | Atomically dispersed Ni as the active site towards selective hydrogenation of nitroarenes. Green Chemistry, 2019, 21, 704-711. | 9.0 | 98 |
| 136 | Nonâ€metal Singleâ€Iodineâ€Atom Electrocatalysts for the Hydrogen Evolution Reaction. Angewandte Chemie, 2019, 131, 12380-12385. | 2.0 | 23 |
| 137 | Nonâ€metal Singleâ€Iodineâ€Atom Electrocatalysts for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 12252-12257. | 13.8 | 175 |
| 138 | Selective electrolysis of CO2 to CO on ultrathin In2Se3 nanosheets. Electrochemistry Communications, 2019, 103, 127-132. | 4.7 | 25 |
| 139 | van der Waals epitaxial growth of ultrathin metallic NiSe nanosheets on WSe2 as high performance contacts for WSe2 transistors. Nano Research, 2019, 12, 1683-1689. | 10.4 | 31 |
| 140 | Bi(OH)<sub>3</sub>/PdBi Composite Nanochains as Highly Active and Durable Electrocatalysts for Ethanol Oxidation. Nano Letters, 2019, 19, 4752-4759. | 9.1 | 99 |
| 141 | Directing Gold Nanoparticles into Freeâ€Standing Honeycombâ€Like Ordered Mesoporous Superstructures. Small, 2019, 15, e1901304. | 10.0 | 8 |
| 142 | Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. Nature Catalysis, 2019, 2, 495-503. | 34.4 | 464 |
| 143 | Efficient Electroreduction CO<sub>2</sub> to CO over MnO<sub>2</sub> Nanosheets. Inorganic Chemistry, 2019, 58, 8910-8914. | 4.0 | 34 |
| 144 | Atomic-scale selectivity of hydrogen for storage sites in Pd nanoparticles at atmospheric pressure. Nanoscale, 2019, 11, 10198-10202. | 5.6 | 7 |

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|---|---|---|---|
| 145 | Nitrogen-coordinated single Fe sites for efficient electrocatalytic N2 fixation in neutral media. Nano Energy, 2019, 61, 420-427. | 16.0 | 318 |
| 146 | Regulating the Catalytic Performance of Single-Atomic-Site Ir Catalyst for Biomass Conversion by Metalâ€“Support Interactions. ACS Catalysis, 2019, 9, 5223-5230. | 11.2 | 87 |
| 147 | Maximizing the utility of single atom electrocatalysts on a 3D graphene nanomesh. Journal of Materials Chemistry A, 2019, 7, 15575-15579. | 10.3 | 34 |
| 148 | Synergetic interaction between neighboring platinum and ruthenium monomers boosts CO oxidation. Chemical Science, 2019, 10, 5898-5905. | 7.4 | 127 |
| 149 | Atomically dispersed Fe-N-P-C complex electrocatalysts for superior oxygen reduction. Applied Catalysis B: Environmental, 2019, 249, 306-315. | 20.2 | 85 |
| 150 | Simple physical preparation of single copper atoms on amorphous carbon via Coulomb explosion. Nanoscale, 2019, 11, 7595-7599. | 5.6 | 9 |
| 151 | Engineering the electronic structure of single atom Ru sites via compressive strain boosts acidic water oxidation electrocatalysis. Nature Catalysis, 2019, 2, 304-313. | 34.4 | 757 |
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