

Xiaoxia Chang

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.

55
papers

4,197
citations

29
h-index

64
g-index

65
ext. papers

5,090
ext. citations

11.9
avg, IF

6.12
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 55 | Understanding the complementarities of surface-enhanced infrared and Raman spectroscopies in CO adsorption and electrochemical reduction.. <i>Nature Communications</i> , 2022 , 13, 2656 | 17.4 | 5 |
| 54 | C-C Coupling Is Unlikely to Be the Rate-Determining Step in the Formation of C Products in the Copper-Catalyzed Electrochemical Reduction of CO. <i>Angewandte Chemie - International Edition</i> , 2021 , | 16.4 | 7 |
| 53 | Electrokinetic and in situ spectroscopic investigations of CO electrochemical reduction on copper. <i>Nature Communications</i> , 2021 , 12, 3264 | 17.4 | 29 |
| 52 | Bridging the Gap in the Mechanistic Understanding of Electrocatalysis via In Situ Characterizations. <i>IScience</i> , 2020 , 23, 101776 | 6.1 | 7 |
| 51 | Understanding the electric and nonelectric field components of the cation effect on the electrochemical CO reduction reaction. <i>Science Advances</i> , 2020 , 6, | 14.3 | 24 |
| 50 | Titelbild: Hydroxide Is Not a Promoter of C2+ Product Formation in the Electrochemical Reduction of CO on Copper (Angew. Chem. 11/2020). <i>Angewandte Chemie</i> , 2020 , 132, 4217-4217 | 3.6 | |
| 49 | Mechanistic Insights into Electroreductive C-C Coupling between CO and Acetaldehyde into Multicarbon Products. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2975-2983 | 16.4 | 52 |
| 48 | Speciation of Cu Surfaces During the Electrochemical CO Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9735-9743 | 16.4 | 70 |
| 47 | Hydroxide Is Not a Promoter of C Product Formation in the Electrochemical Reduction of CO on Copper. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4464-4469 | 16.4 | 39 |
| 46 | Hydroxide Is Not a Promoter of C2+ Product Formation in the Electrochemical Reduction of CO on Copper. <i>Angewandte Chemie</i> , 2020 , 132, 4494-4499 | 3.6 | 9 |
| 45 | pH Dependence of Cu Surface Speciation in the Electrochemical CO Reduction Reaction. <i>ACS Catalysis</i> , 2020 , 10, 13737-13747 | 13.1 | 25 |
| 44 | Oxygen induced promotion of electrochemical reduction of CO via co-electrolysis. <i>Nature Communications</i> , 2020 , 11, 3844 | 17.4 | 35 |
| 43 | Toward Excellence of Transition Metal-Based Catalysts for CO2 Electrochemical Reduction: An Overview of Strategies and Rationales. <i>Small Methods</i> , 2020 , 4, 2000033 | 12.8 | 35 |
| 42 | Multifunctional Nickel Film Protected n-Type Silicon Photoanode with High Photovoltage for Efficient and Stable Oxygen Evolution Reaction. <i>Small Methods</i> , 2019 , 3, 1900212 | 12.8 | 24 |
| 41 | Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride. <i>Angewandte Chemie</i> , 2019 , 131, 13906-13910 | 3.6 | 21 |
| 40 | Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13768-13772 | 16.4 | 57 |
| 39 | Computational and experimental demonstrations of one-pot tandem catalysis for electrochemical carbon dioxide reduction to methane. <i>Nature Communications</i> , 2019 , 10, 3340 | 17.4 | 81 |

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| 38 | Titelbild: Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride (Angew. Chem. 39/2019). <i>Angewandte Chemie</i> , 2019 , 131, 13733-13733 | 3.6 | |
| 37 | The Development of Cocatalysts for Photoelectrochemical CO Reduction. <i>Advanced Materials</i> , 2019 , 31, e1804710 | 24 | 104 |
| 36 | The Functionality of Surface Hydroxy Groups on the Selectivity and Activity of Carbon Dioxide Reduction over Cuprous Oxide in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7724-7728 | 16.4 | 59 |
| 35 | Spatial control of cocatalysts and elimination of interfacial defects towards efficient and robust CIGS photocathodes for solar water splitting. <i>Energy and Environmental Science</i> , 2018 , 11, 2025-2034 | 35.4 | 87 |
| 34 | CO ₂ Electroreduction: Morphological and Compositional Design of PdCu Bimetallic Nanocatalysts with Controllable Product Selectivity toward CO ₂ Electroreduction (Small 7/2018). <i>Small</i> , 2018 , 14, 1870031 | 11 | 1 |
| 33 | Synergism of Geometric Construction and Electronic Regulation: 3D Se-(NiCo)S _x /(OH) _x Nanosheets for Highly Efficient Overall Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1705538 | 24 | 193 |
| 32 | Morphological and Compositional Design of Pd-Cu Bimetallic Nanocatalysts with Controllable Product Selectivity toward CO Electroreduction. <i>Small</i> , 2018 , 14, 1703314 | 11 | 65 |
| 31 | WO ₃ photoanodes with controllable bulk and surface oxygen vacancies for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3350-3354 | 13 | 69 |
| 30 | Innenrücktitelbild: Low-Coordinated Edge Sites on Ultrathin Palladium Nanosheets Boost Carbon Dioxide Electroreduction Performance (Angew. Chem. 36/2018). <i>Angewandte Chemie</i> , 2018 , 130, 11995-11995 | 3.6 | 1 |
| 29 | Achieving convenient CO electroreduction and photovoltage in tandem using potential-insensitive disordered Ag nanoparticles. <i>Chemical Science</i> , 2018 , 9, 6599-6604 | 9.4 | 22 |
| 28 | Water Splitting: Synergism of Geometric Construction and Electronic Regulation: 3D Se-(NiCo)S _x /(OH) _x Nanosheets for Highly Efficient Overall Water Splitting (Adv. Mater. 12/2018). <i>Advanced Materials</i> , 2018 , 30, 1870085 | 24 | 25 |
| 27 | Tuning Cu/Cu ₂ O Interfaces for the Reduction of Carbon Dioxide to Methanol in Aqueous Solutions. <i>Angewandte Chemie</i> , 2018 , 130, 15641-15645 | 3.6 | 23 |
| 26 | Titelbild: Tuning Cu/Cu ₂ O Interfaces for the Reduction of Carbon Dioxide to Methanol in Aqueous Solutions (Angew. Chem. 47/2018). <i>Angewandte Chemie</i> , 2018 , 130, 15507-15507 | 3.6 | 1 |
| 25 | Tuning Cu/Cu ₂ O Interfaces for the Reduction of Carbon Dioxide to Methanol in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15415-15419 | 16.4 | 118 |
| 24 | The Functionality of Surface Hydroxy Groups on the Selectivity and Activity of Carbon Dioxide Reduction over Cuprous Oxide in Aqueous Solutions. <i>Angewandte Chemie</i> , 2018 , 130, 7850-7854 | 3.6 | 18 |
| 23 | Tunable syngas production from photocatalytic CO reduction with mitigated charge recombination driven by spatially separated cocatalysts. <i>Chemical Science</i> , 2018 , 9, 5334-5340 | 9.4 | 65 |
| 22 | Low-Coordinated Edge Sites on Ultrathin Palladium Nanosheets Boost Carbon Dioxide Electroreduction Performance. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11544-11548 | 16.4 | 90 |
| 21 | Low-Coordinated Edge Sites on Ultrathin Palladium Nanosheets Boost Carbon Dioxide Electroreduction Performance. <i>Angewandte Chemie</i> , 2018 , 130, 11718-11722 | 3.6 | 32 |

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| 20 | Surviving High-Temperature Calcination: ZrO-Induced Hematite Nanotubes for Photoelectrochemical Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4150-4155 | 16.4 | 104 |
| 19 | Surviving High-Temperature Calcination: ZrO ₂ -Induced Hematite Nanotubes for Photoelectrochemical Water Oxidation. <i>Angewandte Chemie</i> , 2017 , 129, 4214-4219 | 3.6 | 35 |
| 18 | Innenrücktitelbild: Surviving High-Temperature Calcination: ZrO ₂ -Induced Hematite Nanotubes for Photoelectrochemical Water Oxidation (Angew. Chem. 15/2017). <i>Angewandte Chemie</i> , 2017 , 129, 4427-4427 | 3.6 | 35 |
| 17 | A Low-Cost NiO Hole Transfer Layer for Ohmic Back Contact to Cu ₂ O for Photoelectrochemical Water Splitting. <i>Small</i> , 2017 , 13, 1702007 | 11 | 34 |
| 16 | Innentitelbild: Thin Heterojunctions and Spatially Separated Cocatalysts To Simultaneously Reduce Bulk and Surface Recombination in Photocatalysts (Angew. Chem. 44/2016). <i>Angewandte Chemie</i> , 2016 , 128, 13818-13818 | 3.6 | 1 |
| 15 | Thin Heterojunctions and Spatially Separated Cocatalysts To Simultaneously Reduce Bulk and Surface Recombination in Photocatalysts. <i>Angewandte Chemie</i> , 2016 , 128, 13938-13942 | 3.6 | 16 |
| 14 | Frontispiece: Stable Aqueous Photoelectrochemical CO ₂ Reduction by a Cu ₂ O Dark Cathode with Improved Selectivity for Carbonaceous Products. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, | 16.4 | 1 |
| 13 | Thin Heterojunctions and Spatially Separated Cocatalysts To Simultaneously Reduce Bulk and Surface Recombination in Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13734-13738 | 16.4 | 124 |
| 12 | Stable Aqueous Photoelectrochemical CO ₂ Reduction by a Cu ₂ O Dark Cathode with Improved Selectivity for Carbonaceous Products. <i>Angewandte Chemie</i> , 2016 , 128, 8986-8991 | 3.6 | 41 |
| 11 | Innentitelbild: Synergistic Cocatalytic Effect of Carbon Nanodots and Co ₃ O ₄ Nanoclusters for the Photoelectrochemical Water Oxidation on Hematite (Angew. Chem. 19/2016). <i>Angewandte Chemie</i> , 2016 , 128, 5704-5704 | 3.6 | |
| 10 | Synergistic Cocatalytic Effect of Carbon Nanodots and Co ₃ O ₄ Nanoclusters for the Photoelectrochemical Water Oxidation on Hematite. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5851-5 | 16.4 | 153 |
| 9 | Fabrication of porous nanoflake BiMO (M = W, V, and Mo) photoanodes hydrothermal anion exchange. <i>Chemical Science</i> , 2016 , 7, 6381-6386 | 9.4 | 51 |
| 8 | Stable Aqueous Photoelectrochemical CO ₂ Reduction by a Cu ₂ O Dark Cathode with Improved Selectivity for Carbonaceous Products. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8840-5 | 16.4 | 135 |
| 7 | CO ₂ photo-reduction: insights into CO ₂ activation and reaction on surfaces of photocatalysts. <i>Energy and Environmental Science</i> , 2016 , 9, 2177-2196 | 35.4 | 1038 |
| 6 | Spatial separation of oxidation and reduction co-catalysts for efficient charge separation: Pt@TiO ₂ @MnO hollow spheres for photocatalytic reactions. <i>Chemical Science</i> , 2016 , 7, 890-895 | 9.4 | 111 |
| 5 | Synergistic Cocatalytic Effect of Carbon Nanodots and Co ₃ O ₄ Nanoclusters for the Photoelectrochemical Water Oxidation on Hematite. <i>Angewandte Chemie</i> , 2016 , 128, 5945-5949 | 3.6 | 29 |
| 4 | Effective Charge Carrier Utilization in Photocatalytic Conversions. <i>Accounts of Chemical Research</i> , 2016 , 49, 911-21 | 24.3 | 200 |
| 3 | Enhanced Surface Reaction Kinetics and Charge Separation of p-n Heterojunction Co ₃ O ₄ /BiVO ₄ Photoanodes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8356-9 | 16.4 | 611 |

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| 2 | Determining intrinsic stark tuning rates of adsorbed CO on copper surfaces. <i>Catalysis Science and Technology</i> , | 5.5 | 2 |
| 1 | Selective Enhancement of Methane Formation in Electrochemical CO ₂ Reduction Enabled by a Raman-Inactive Oxygen-Containing Species on Cu. <i>ACS Catalysis</i> ,6036-6046 | 13.1 | 2 |