

Xiaoxia Chang

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.

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	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
54	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
53	Effective Charge Carrier Utilization in Photocatalytic Conversions. <i>Accounts of Chemical Research</i> , 2016 , 49, 911-21	24.3	200
52	Synergism of Geometric Construction and Electronic Regulation: 3D Se-(NiCo)S/(OH) Nanosheets for Highly Efficient Overall Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1705538	24	193
51	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
50	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
49	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
48	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
47	Spatial separation of oxidation and reduction co-catalysts for efficient charge separation: Pt@TiO ₂ @MnO ₂ hollow spheres for photocatalytic reactions. <i>Chemical Science</i> , 2016 , 7, 890-895	9.4	111
46	Surviving High-Temperature Calcination: ZrO ₂ -Induced Hematite Nanotubes for Photoelectrochemical Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4150-4155	16.4	104
45	The Development of Cocatalysts for Photoelectrochemical CO Reduction. <i>Advanced Materials</i> , 2019 , 31, e1804710	24	104
44	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
43	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
42	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
41	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
40	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
39	Morphological and Compositional Design of Pd-Cu Bimetallic Nanocatalysts with Controllable Product Selectivity toward CO Electroreduction. <i>Small</i> , 2018 , 14, 1703314	11	65

38	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
37	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
36	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
35	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
34	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
33	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
32	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
31	Surviving High-Temperature Calcination: ZrO ₂ -Induced Hematite Nanotubes for Photoelectrochemical Water Oxidation. <i>Angewandte Chemie</i> , 2017 , 129, 4214-4219	3.6	35
30	Oxygen induced promotion of electrochemical reduction of CO via co-electrolysis. <i>Nature Communications</i> , 2020 , 11, 3844	17.4	35
29	Toward Excellence of Transition Metal-Based Catalysts for CO ₂ Electrochemical Reduction: An Overview of Strategies and Rationales. <i>Small Methods</i> , 2020 , 4, 2000033	12.8	35
28	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
27	Low-Coordinated Edge Sites on Ultrathin Palladium Nanosheets Boost Carbon Dioxide Electroreduction Performance. <i>Angewandte Chemie</i> , 2018 , 130, 11718-11722	3.6	32
26	Electrokinetic and in situ spectroscopic investigations of CO electrochemical reduction on copper. <i>Nature Communications</i> , 2021 , 12, 3264	17.4	29
25	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
24	pH Dependence of Cu Surface Speciation in the Electrochemical CO Reduction Reaction. <i>ACS Catalysis</i> , 2020 , 10, 13737-13747	13.1	25
23	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
22	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
21	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

20	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
19	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
18	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
17	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
16	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
15	Hydroxide Is Not a Promoter of C ₂ + Product Formation in the Electrochemical Reduction of CO on Copper. <i>Angewandte Chemie</i> , 2020 , 132, 4494-4499	3.6	9
14	Bridging the Gap in the Mechanistic Understanding of Electrocatalysis via In Situ Characterizations. <i>IScience</i> , 2020 , 23, 101776	6.1	7
13	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
12	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
11	Determining intrinsic stark tuning rates of adsorbed CO on copper surfaces. <i>Catalysis Science and Technology</i> ,	5.5	2
10	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
9	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
8	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
7	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
6	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
5	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	7
4	Titelbild: Hydroxide Is Not a Promoter of C ₂ + Product Formation in the Electrochemical Reduction of CO on Copper (Angew. Chem. 11/2020). <i>Angewandte Chemie</i> , 2020 , 132, 4217-4217	3.6	
3	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	

- 2 Innenr ktitelbild: Low-Coordinated Edge Sites on Ultrathin Palladium Nanosheets Boost Carbon Dioxide Electroreduction Performance (Angew. Chem. 36/2018). *Angewandte Chemie*, **2018**, 130, 11995-11995 3.6
- 1 Titelbild: Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride (Angew. Chem. 39/2019). *Angewandte Chemie*, **2019**, 131, 13733-13733 3.6