Kang Liu

List of Publications by Year
in descending order

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43 papers	4,085 citations	147801 31 h-index	265206 42 g-index
43 all docs	43 docs citations	43 times ranked	3458 citing authors

#	Article	IF	Citations
1	Bimetallic atomic site catalysts for CO2 reduction reactions: a review. Environmental Chemistry Letters, 2022, 20, 243-262.	16.2	31
2	Optimizing Hydrogen Binding on Ru Sites with RuCo Alloy Nanosheets for Efficient Alkaline Hydrogen Evolution. Angewandte Chemie, 2022, 134, .	2.0	24
3	Optimizing Hydrogen Binding on Ru Sites with RuCo Alloy Nanosheets for Efficient Alkaline Hydrogen Evolution. Angewandte Chemie - International Edition, 2022, 61, e202113664.	13.8	102
4	CO2 reduction reaction pathways on single-atom Co sites: Impacts of local coordination environment. Chinese Journal of Catalysis, 2022, 43, 832-838.	14.0	18
5	Accelerating CO₂ Electroreduction to Multicarbon Products via Synergistic Electricâ€“Thermal Field on Copper Nanoneedles. Journal of the American Chemical Society, 2022, 144, 3039-3049.	13.7	147
6	Vertical Cu Nanoneedle Arrays Enhance the Local Electric Field Promoting C₂ Hydrocarbons in the CO₂ Electroreduction. Nano Letters, 2022, 22, 1963-1970.	9.1	95
7	Insights into the activity of single-atom Fe-N-C catalysts for oxygen reduction reaction. Nature Communications, 2022, 13, 2075.	12.8	197
8	Vertical SrNbO₂N Nanorod Arrays for Solarâ€Driven Photoelectrochemical Water Splitting. Solar Rrl, 2021, 5, 2000448.	5.8	10
9	B-Doped coreâ€“shell Fe@BC nanozymes: active site identification and bacterial inhibition. Chemical Communications, 2021, 57, 1623-1626.	4.1	17
10	CoS₂ needle arrays induced a local pseudo-acidic environment for alkaline hydrogen evolution. Nanoscale, 2021, 13, 13604-13609.	5.6	37
11	Modulating electronic structure of metal-organic frameworks by introducing atomically dispersed Ru for efficient hydrogen evolution. Nature Communications, 2021, 12, 1369.	12.8	360
12	Paired Ruâ€'Oâ€'Mo ensemble for efficient and stable alkaline hydrogen evolution reaction. Nano Energy, 2021, 82, 105767.	16.0	86
13	Tuning Charge Distribution of FeN₄ via External N for Enhanced Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 6304-6315.	11.2	114
14	Pseudo-copper Ni-Zn alloy catalysts for carbon dioxide reduction to C2 products. Frontiers of Physics, 2021, 16, 1.	5.0	19
15	Chemical Identification of Catalytically Active Sites on Oxygenâ€doped Carbon Nanosheet to Decipher the High Activity for Electroâ€synthesis Hydrogen Peroxide. Angewandte Chemie - International Edition, 2021, 60, 16607-16614.	13.8	150
16	Chemical Identification of Catalytically Active Sites on Oxygenâ€doped Carbon Nanosheet to Decipher the High Activity for Electroâ€synthesis Hydrogen Peroxide. Angewandte Chemie, 2021, 133, 16743-16750.	2.0	34
17	Activation of CO2 on graphitic carbon nitride supported single-atom cobalt sites. Chemical Engineering Journal, 2021, 415, 128982.	12.7	76
18	Tuning the electron structure enables the NiZn alloy for CO2 electroreduction to formate. Journal of Energy Chemistry, 2021, 63, 625-632.	12.9	38

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19	Atomically Dispersed sâ€Block Magnesium Sites for Electroreduction of CO₂ to CO. Angewandte Chemie, 2021, 133, 25445-25449.	2.0	22
20	Atomically Dispersed sâ€Block Magnesium Sites for Electroreduction of CO₂ to CO. Angewandte Chemie - International Edition, 2021, 60, 25241-25245.	13.8	104
21	Tuning the intermediate reaction barriers by a CuPd catalyst to improve the selectivity of CO2 electroreduction to C2 products. Chinese Journal of Catalysis, 2021, 42, 1500-1508.	14.0	56
22	Dual active sites fabricated through atomic layer deposition of TiO₂ on MoS₂ nanosheet arrays for highly efficient electroreduction of CO₂ to ethanol. Journal of Materials Chemistry A, 2021, 9, 6790-6796.	10.3	22
23	Machine Learning in Screening High Performance Electrocatalysts for CO₂ Reduction. Small Methods, 2021, 5, e2100987.	8.6	60
24	Metallic MoO₂â€Modified Graphitic Carbon Nitride Boosting Photocatalytic CO₂Reduction via Schottky Junction. Solar Rrl, 2020, 4, 1900416.	5.8	59
25	Single-atom transition metals supported on black phosphorene for electrochemical nitrogen reduction. Nanoscale, 2020, 12, 4903-4908.	5.6	107
26	Graphitic carbon nitride based single-atom photocatalysts. Frontiers of Physics, 2020, 15, 1.	5.0	72
27	Co single-atoms on ultrathin N-doped porous carbon via a biomass complexation strategy for high performance metalâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 2131-2139.	10.3	68
28	Hierarchical 2D yarn-ball like metalâ€“organic framework NiFe(dobpdc) as bifunctional electrocatalyst for efficient overall electrocatalytic water splitting. Journal of Materials Chemistry A, 2020, 8, 22974-22982.	10.3	43
29	Iron phthalocyanine with coordination induced electronic localization to boost oxygen reduction reaction. Nature Communications, 2020, 11, 4173.	12.8	358
30	Enhancing CO₂ reduction by suppressing hydrogen evolution with polytetrafluoroethylene protected copper nanoneedles. Journal of Materials Chemistry A, 2020, 8, 15936-15941.	10.3	78
31	Hierarchical Nanorods of MoS₂/MoP Heterojunction for Efficient Electrocatalytic Hydrogen Evolution Reaction. Small, 2020, 16, e2002482.	10.0	85
32	Plasma-treatment induced H2O dissociation for the enhancement of photocatalytic CO2 reduction to CH4 over graphitic carbon nitride. Applied Surface Science, 2020, 508, 145173.	6.1	44
33	Hierarchical TiO2 nanorods with a highly active surface for photocatalytic CO2 reduction. Journal of Central South University, 2019, 26, 1503-1509.	3.0	10
34	Graphitic Carbon Nitride with Dopant Induced Charge Localization for Enhanced Photoreduction of CO₂ to CH₄. Advanced Science, 2019, 6, 1900796.	11.2	251
35	Quantum-Dot-Derived Catalysts for CO2 Reduction Reaction. Joule, 2019, 3, 1703-1718.	24.0	106
36	Missing-linker metal-organic frameworks for oxygen evolution reaction. Nature Communications, 2019, 10, 5048.	12.8	422

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37	Hybrids of PtRu Nanoclusters and Black Phosphorus Nanosheets for Highly Efficient Alkaline Hydrogen Evolution Reaction. ACS Catalysis, 2019, 9, 10870-10875.	11.2	86
38	Hierarchical nanotubes constructed from CoSe2 nanorods with an oxygen-rich surface for an efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 15073-15078.	10.3	47
39	Recent advances in different-dimension electrocatalysts for carbon dioxide reduction. Journal of Colloid and Interface Science, 2019, 550, 17-47.	9.4	26
40	Untying thioether bond structures enabled by â€œvoltage-scissorsâ€•for stable room temperature sodiumâ€“sulfur batteries. Nanoscale, 2019, 11, 5967-5973.	5.6	66
41	Interfacial Electronic Structure Modulation of NiTe Nanoarrays with NiS Nanodots Facilitates Electrocatalytic Oxygen Evolution. Advanced Materials, 2019, 31, e1900430.	21.0	298
42	Solution evaporation processed high quality perovskite films. Science Bulletin, 2018, 63, 1591-1596.	9.0	34
43	Turn the Trash into Treasure: Egg-White-Derived Single-Atom Electrocatalysts Boost Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	6