

# Kun Jiang

## 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.

66

papers

5,919

citations

34

h-index

74

g-index

74

ext. papers

7,527

ext. citations

12.7

avg, IF

6.37

L-index

#	Paper	IF	Citations
66	Manipulating the oxygen reduction reaction pathway on Pt-coordinated motifs.. <i>Nature Communications</i> , <b>2022</b> , 13, 685	17.4	8
65	Electrocatalytic CO <sub>2</sub> and HCOOH interconversion on Pd-based catalysts <b>2022</b> , 1, 100007		2
64	Electrochemical Hydrogen Peroxide Synthesis from Selective Oxygen Reduction over Metal Selenide Catalysts.. <i>Nano Letters</i> , <b>2021</b> ,	11.5	5
63	Direct and continuous generation of pure acetic acid solutions via electrocatalytic carbon monoxide reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	24
62	Selective Reduction of CO <sub>2</sub> to CO on an Sb-Modified Cu Electrode: Spontaneous Fabrication and Physical Insight. <i>ACS Catalysis</i> , <b>2021</b> , 11, 6846-6856	13.1	14
61	Boosting electrocatalytic oxidation of formic acid on SnO <sub>2</sub> -decorated Pd nanosheets. <i>Journal of Catalysis</i> , <b>2021</b> , 399, 8-14	7.3	3
60	Probing the enhanced methanol electrooxidation mechanism on platinum-metal oxide catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 280, 119393	21.8	27
59	The Critical Role of Additive Sulfate for Stable Alkaline Seawater Oxidation on Nickel-Based Electrodes. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 22740-22744	16.4	11
58	Atomically Dispersed High-Density Al-N Sites in Porous Carbon for Efficient Photodriven CO Cycloaddition. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103186	24	12
57	Nanoparticle-Assisted Ni <sub>2</sub> Co Binary Single-Atom Catalysts Supported on Carbon Nanotubes for Efficient Electroreduction of CO <sub>2</sub> to Syngas with Controllable CO/H <sub>2</sub> Ratios. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 9572-9581	6.1	1
56	The Critical Role of Additive Sulfate for Stable Alkaline Seawater Oxidation on Nickel-Based Electrodes. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 22922	3.6	2
55	Dealloyed RuNiO as a robust electrocatalyst for the oxygen evolution reaction in acidic media. <i>Dalton Transactions</i> , <b>2021</b> , 50, 5124-5127	4.3	1
54	Spectrometric Study of Electrochemical CO <sub>2</sub> Reduction on Pd and Pd-B Electrodes. <i>ACS Catalysis</i> , <b>2021</b> , 11, 840-848	13.1	21
53	Catalyst Design for Electrochemical Oxygen Reduction toward Hydrogen Peroxide. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003321	15.6	65
52	Effects of Surface Roughness on the Electrochemical Reduction of CO <sub>2</sub> over Cu. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1206-1214	20.1	80
51	Production of C <sub>2</sub> /C <sub>3</sub> Oxygenates from Planar Copper Nitride-Derived Mesoporous Copper via Electrochemical Reduction of CO <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3304-3311	9.6	32
50	Mechanistic Analysis-Guided Pd-Based Catalysts for Efficient Hydrogen Production from Formic Acid Dehydrogenation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3921-3932	13.1	40

49	Confined local oxygen gas promotes electrochemical water oxidation to hydrogen peroxide. <i>Nature Catalysis</i> , <b>2020</b> , 3, 125-134	36.5	106
48	Integrating Rh Species with NiFe-Layered Double Hydroxide for Overall Water Splitting. <i>Nano Letters</i> , <b>2020</b> , 20, 136-144	11.5	67
47	Revisiting the Acetaldehyde Oxidation Reaction on a Pt Electrode by High-Sensitivity and Wide-Frequency Infrared Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8727-8734	6.4	8
46	Highly selective oxygen reduction to hydrogen peroxide on transition metal single atom coordination. <i>Nature Communications</i> , <b>2019</b> , 10, 3997	17.4	264
45	The Role of Defect Sites in Nanomaterials for Electrocatalytic Energy Conversion. <i>Chem</i> , <b>2019</b> , 5, 1371-1387	10.7	170
44	Changing the Product Selectivity for Electrocatalysis of CO <sub>2</sub> Reduction Reaction on Plated Cu Electrodes. <i>ChemCatChem</i> , <b>2019</b> , 11, 6139-6146	5.2	22
43	Large-Scale, Low-Cost, and High-Efficiency Water-Splitting System for Clean H <sub>2</sub> Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3971-3977	9.5	23
42	Large-Scale and Highly Selective CO <sub>2</sub> Electrocatalytic Reduction on Nickel Single-Atom Catalyst. <i>Joule</i> , <b>2019</b> , 3, 265-278	27.8	408
41	Fluoride-Induced Dynamic Surface Self-Reconstruction Produces Unexpectedly Efficient Oxygen-Evolution Catalyst. <i>Nano Letters</i> , <b>2019</b> , 19, 530-537	11.5	134
40	Synthesis and Performance Characterizations of Transition Metal Single Atom Catalyst for Electrochemical CO <sub>2</sub> Reduction. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	4
39	Electrocatalysis over Graphene-Defect-Coordinated Transition-Metal Single-Atom Catalysts. <i>Chem</i> , <b>2018</b> , 4, 194-195	16.2	36
38	Isolated Ni single atoms in graphene nanosheets for high-performance CO <sub>2</sub> reduction. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 893-903	35.4	580
37	Boosting Formate Production in Electrocatalytic CO Reduction over Wide Potential Window on Pd Surfaces. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 2880-2889	16.4	210
36	PdPdO Interface as Active Site for HCOOH Selective Dehydrogenation at Ambient Condition. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 2081-2088	3.8	45
35	Metal ion cycling of Cu foil for selective C <sub>1</sub> coupling in electrochemical CO <sub>2</sub> reduction. <i>Nature Catalysis</i> , <b>2018</b> , 1, 111-119	36.5	383
34	Effect of total suspended solids and various treatment on rheological characteristics of municipal sludge. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 5123-5138	2.8	9
33	Recent Advances in Electrochemical CO <sub>2</sub> -to-CO Conversion on Heterogeneous Catalysts. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802066	24	267
32	Lithium Electrochemical Tuning for Electrocatalysis. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800978	24	34

31	Electrocatalysis of Ethylene Glycol Oxidation on Bare and Bi-Modified Pd Concave Nanocubes in Alkaline Solution: An Interfacial Infrared Spectroscopic Investigation. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2033-2041	13.1	47
30	Electrocatalytic Activities of Oxygen Reduction Reaction on Pd/C and PdB/C Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3416-3423	3.8	69
29	Facile Aqueous Phase Synthesis of Carbon Supported B-doped Pt <sub>3</sub> Ni Nanocatalyst for Efficient Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , <b>2017</b> , 246, 242-250	6.7	25
28	Li Electrochemical Tuning of Metal Oxide for Highly Selective CO Reduction. <i>ACS Nano</i> , <b>2017</b> , 11, 6451-6458	10.7	104
27	Formic acid oxidation at palladium electrode in acidic media containing chloride anions: An in situ ATR-SEIRAS investigation. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 800, 77-81	4.1	11
26	Theoretical Investigations into Defected Graphene for Electrochemical Reduction of CO <sub>2</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 11080-11085	8.3	68
25	Transition-Metal Single Atoms in a Graphene Shell as Active Centers for Highly Efficient Artificial Photosynthesis. <i>CheM</i> , <b>2017</b> , 3, 950-960	16.2	249
24	Silver Nanoparticles with Surface-Bonded Oxygen for Highly Selective CO <sub>2</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 8529-8534	8.3	43
23	Surfactant-Free Synthesis of Carbon-Supported Palladium Nanoparticles and Size-Dependent Hydrogen Production from Formic Acid-Formate Solution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24678-24687	9.5	63
22	Nanostructured palladium catalyst poisoning depressed by cobalt phosphide in the electro-oxidation of formic acid for fuel cells. <i>Nano Energy</i> , <b>2016</b> , 30, 355-361	17.1	86
21	Pt <sub>10</sub> CoP/C as an alternative PtRu/C catalyst for direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18607-18613	13	97
20	Manganese Dioxide Coated Graphene Nanoribbons Supported Palladium Nanoparticles as an Efficient Catalyst for Ethanol Electrooxidation in Alkaline Media. <i>Electrochimica Acta</i> , <b>2016</b> , 203, 91-98	6.7	31
19	Small Addition of Boron in Palladium Catalyst, Big Improvement in Fuel Cell Performance: What May Interfacial Spectroelectrochemistry Tell?. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7133-8	9.5	54
18	Carbon monoxide mediated chemical deposition of Pt or Pd quasi-monolayer on Au surfaces with superior electrocatalysis for ethanol oxidation in alkaline media. <i>Chemical Communications</i> , <b>2016</b> , 52, 374-7	5.8	34
17	A comparative investigation of electrocatalysis at Pt monolayers on shape-controlled Au nanocrystals: facet effect versus strain effect. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15845-15850	13	16
16	Enhanced Electrocatalysis of Ethanol on Dealloyed Pd-Ni-P Film in Alkaline Media: an Infrared Spectroelectrochemical Investigation. <i>Electrochimica Acta</i> , <b>2015</b> , 162, 100-107	6.7	21
15	Bio-Inspired Leaf-Mimicking Nanosheet/Nanotube Heterostructure as a Highly Efficient Oxygen Evolution Catalyst. <i>Advanced Science</i> , <b>2015</b> , 2, 1500003	13.6	78
14	Pd <sub>10</sub> Tu/C electrocatalysts synthesized by one-pot polyol reduction toward formic acid oxidation: Structural characterization and electrocatalytic performance. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 1726-1734	6.7	75

13	B-doped Pd catalyst: boosting room-temperature hydrogen production from formic acid-formate solutions. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4861-4	16.4	289
12	Electrocatalysis of formic acid on palladium and platinum surfaces: from fundamental mechanisms to fuel cell applications. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 20360-76	3.6	238
11	Reduced Mesoporous Co <sub>3</sub> O <sub>4</sub> Nanowires as Efficient Water Oxidation Electrocatalysts and Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400696	21.8	650
10	Liquid-phase-deposited silicon oxide film as a mask for single-sided texturing of monocrystalline Si wafers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1207-12	9.5	4
9	Carbon supported Pd-Pt-Cu nanocatalysts for formic acid electrooxidation: Synthetic screening and componential functions. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 147, 185-192	21.8	72
8	Facile preparation of Cu@Pt/rGO hybrids and their electrocatalytic activities for methanol oxidation. <i>Electrochimica Acta</i> , <b>2013</b> , 107, 419-424	6.7	15
7	A convenient light initiated synthesis of silver and gold nanoparticles using a single source precursor. <i>Chemical Communications</i> , <b>2013</b> , 49, 3991-3	5.8	13
6	In situ spectroscopic investigation of CO accumulation and poisoning on Pd black surfaces in concentrated HCOOH. <i>Journal of Power Sources</i> , <b>2012</b> , 199, 165-169	8.9	65
5	From HCOOH to CO at Pd electrodes: a surface-enhanced infrared spectroscopy study. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 14876-9	16.4	172
4	Facile synthesis of Ag@Pd satellites-Fe <sub>3</sub> O <sub>4</sub> core nanocomposites as efficient and reusable hydrogenation catalysts. <i>Chemical Communications</i> , <b>2011</b> , 47, 11924-6	5.8	83
3	Resolving local reaction environment toward an optimized CO <sub>2</sub> -to-CO conversion performance. <i>Energy and Environmental Science</i> ,	35.4	8
2	Local Coordination and Reactivity of a Pt Single-Atom Catalyst as Probed by Spectroelectrochemical and Computational Approaches. <i>CCS Chemistry</i> , 241-251	7.2	4
1	Highly band-selective meta-surfaces exhibiting perfect near infrared absorption and concurrent visible band sensing: A numerical study. <i>Science China Technological Sciences</i> , 1	3.5	