

Yuhang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

7,573
citations

76326

40
h-index

133252

59
g-index

62
all docs

62
docs citations

62
times ranked

7221
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular tuning of CO ₂ -to-ethylene conversion. <i>Nature</i> , 2020, 577, 509-513.	27.8	682
2	Enhanced Nitrate-to-Ammonia Activity on Copper–Nickel Alloys via Tuning of Intermediate Adsorption. <i>Journal of the American Chemical Society</i> , 2020, 142, 5702-5708.	13.7	638
3	Cooperative CO ₂ -to-ethanol conversion via enriched intermediates at molecule–metal catalyst interfaces. <i>Nature Catalysis</i> , 2020, 3, 75-82.	34.4	390
4	Copper nanocavities confine intermediates for efficient electrosynthesis of C ₃ alcohol fuels from carbon monoxide. <i>Nature Catalysis</i> , 2018, 1, 946-951.	34.4	354
5	Metal–Organic Frameworks Mediate Cu Coordination for Selective CO ₂ Electroreduction. <i>Journal of the American Chemical Society</i> , 2018, 140, 11378-11386.	13.7	326
6	Catalyst synthesis under CO ₂ electroreduction favours faceting and promotes renewable fuels electrosynthesis. <i>Nature Catalysis</i> , 2020, 3, 98-106.	34.4	325
7	Copper-on-nitride enhances the stable electrosynthesis of multi-carbon products from CO ₂ . <i>Nature Communications</i> , 2018, 9, 3828.	12.8	279
8	Superb Alkaline Hydrogen Evolution and Simultaneous Electricity Generation by Pt–Decorated Ni ₃ N Nanosheets. <i>Advanced Energy Materials</i> , 2017, 7, 1601390.	19.5	225
9	Constraining CO coverage on copper promotes high-efficiency ethylene electroproduction. <i>Nature Catalysis</i> , 2019, 2, 1124-1131.	34.4	214
10	Hydroxide promotes carbon dioxide electroreduction to ethanol on copper via tuning of adsorbed hydrogen. <i>Nature Communications</i> , 2019, 10, 5814.	12.8	201
11	High carbon utilization in CO ₂ reduction to multi-carbon products in acidic media. <i>Nature Catalysis</i> , 2022, 5, 564-570.	34.4	197
12	Chloride-mediated selective electrosynthesis of ethylene and propylene oxides at high current density. <i>Science</i> , 2020, 368, 1228-1233.	12.6	196
13	Efficient Electrocatalytic CO ₂ Reduction to C ₂ + Alcohols at Defect-Site-Rich Cu Surface. <i>Joule</i> , 2021, 5, 429-440.	24.0	194
14	Tuning of CO ₂ Reduction Selectivity on Metal Electrocatalysts. <i>Small</i> , 2017, 13, 1701809.	10.0	182
15	Cascade CO ₂ electroreduction enables efficient carbonate-free production of ethylene. <i>Joule</i> , 2021, 5, 706-719.	24.0	158
16	Nitrogen-Doped Core–Shell Carbon Nanotube Array for Highly Stretchable Supercapacitor. <i>Advanced Energy Materials</i> , 2017, 7, 1601814.	19.5	155
17	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , 2018, 9, 4614.	12.8	153
18	All-Nanowire Based Li-Ion Full Cells Using Homologous Mn ₂ O ₃ and LiMn ₂ O ₄ . <i>Nano Letters</i> , 2014, 14, 1080-1084.	9.1	152

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19	Designing Copper-Based Catalysts for Efficient Carbon Dioxide Electroreduction. <i>Advanced Materials</i> , 2021, 33, e2005798.	21.0	145
20	Myriophyllum-like hierarchical TiN@Ni ₃ N nanowire arrays for bifunctional water splitting catalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5713-5718.	10.3	134
21	A fiber-shaped aqueous lithium ion battery with high power density. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9002-9008.	10.3	132
22	Efficient upgrading of CO to C3 fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019, 10, 5186.	12.8	127
23	Tuning OH binding energy enables selective electrochemical oxidation of ethylene to ethylene glycol. <i>Nature Catalysis</i> , 2020, 3, 14-22.	34.4	120
24	Selective CO-to-acetate electroreduction via intermediate adsorption tuning on ordered Cu-Pd sites. <i>Nature Catalysis</i> , 2022, 5, 251-258.	34.4	118
25	MnO Nanoparticle@Mesoporous Carbon Composites Grown on Conducting Substrates Featuring High-performance Lithium-ion Battery, Supercapacitor and Sensor. <i>Scientific Reports</i> , 2013, 3, 2693.	3.3	117
26	Electron-Deficient Cu Sites on Cu ₃ Ag Catalyst Promoting CO ₂ Electroreduction to Alcohols. <i>Advanced Energy Materials</i> , 2020, 10, 2001987.	19.5	117
27	High-Rate and Efficient Ethylene Electrosynthesis Using a Catalyst/Promoter/Transport Layer. <i>ACS Energy Letters</i> , 2020, 5, 2811-2818.	17.4	106
28	Biocompatible carbon nanotube fibers for implantable supercapacitors. <i>Carbon</i> , 2017, 122, 162-167.	10.3	105
29	A flexible ligand-based wavy layered metal-organic framework for lithium-ion storage. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 320-325.	9.4	102
30	Efficient solar-driven electrocatalytic CO ₂ reduction in a redox-medium-assisted system. <i>Nature Communications</i> , 2018, 9, 5003.	12.8	97
31	Low coordination number copper catalysts for electrochemical CO ₂ methanation in a membrane electrode assembly. <i>Nature Communications</i> , 2021, 12, 2932.	12.8	97
32	Silica-copper catalyst interfaces enable carbon-carbon coupling towards ethylene electrosynthesis. <i>Nature Communications</i> , 2021, 12, 2808.	12.8	91
33	Preparation and electrochemical performance of a cerium oxide-graphene nanocomposite as the anode material of a lithium ion battery. <i>Scripta Materialia</i> , 2011, 65, 339-342.	5.2	86
34	Enhanced multi-carbon alcohol electroproduction from CO via modulated hydrogen adsorption. <i>Nature Communications</i> , 2020, 11, 3685.	12.8	72
35	One-dimensional nanostructures for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16382-16392.	10.3	70
36	Indirect growth of mesoporous Bi@C core-shell nanowires for enhanced lithium-ion storage. <i>Nanoscale</i> , 2014, 6, 13236-13241.	5.6	66

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37	Fully Solar-Powered Photoelectrochemical Conversion for Simultaneous Energy Storage and Chemical Sensing. <i>Nano Letters</i> , 2014, 14, 3668-3673.	9.1	64
38	Direct ammonia synthesis from the air via gliding arc plasma integrated with single atom electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120667.	20.2	55
39	Achieving High Aqueous Energy Storage via Hydrogen-Generation Passivation. <i>Advanced Materials</i> , 2016, 28, 7626-7632.	21.0	51
40	Freestanding 3D graphene/cobalt sulfide composites for supercapacitors and hydrogen evolution reaction. <i>RSC Advances</i> , 2015, 5, 6886-6891.	3.6	47
41	Electrocatalytic Methane Oxidation Greatly Promoted by Chlorine Intermediates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17398-17403.	13.8	43
42	Redox-mediated electrosynthesis of ethylene oxide from CO ₂ and water. <i>Nature Catalysis</i> , 2022, 5, 185-192.	34.4	40
43	Valorizing carbon dioxide via electrochemical reduction on gas-diffusion electrodes. <i>Informa-Technology</i> , 2021, 3, 1313-1332.	17.3	37
44	Highly Dispersed Indium Oxide Nanoparticles Supported on Carbon Nanorods Enabling Efficient Electrochemical CO ₂ Reduction. <i>Small Science</i> , 2021, 1, 2100029.	9.9	34
45	Dual Coordination of Ti and Pb Using Bifunctional Ligands Improves Perovskite Solar Cell Performance and Stability. <i>Advanced Functional Materials</i> , 2020, 30, 2005155.	14.9	33
46	Hollow NiCo ₂ Se ₄ microspheres composed of nanoparticles as multifunctional electrocatalysts for unassisted artificial photosynthesis. <i>Electrochimica Acta</i> , 2018, 283, 628-637.	5.2	32
47	Heterogeneous Electrocatalysts for CO ₂ Reduction. <i>ACS Applied Energy Materials</i> , 2021, 4, 1034-1044.	5.1	31
48	Direct growth of mesoporous carbon-coated Ni nanoparticles on carbon fibers for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2876-2882.	10.3	28
49	Inhibiting carbonate formation using CO ₂ -CO ₂ tandems. <i>SmartMat</i> , 2021, 2, 423-425.	10.7	27
50	Bridged-multi-octahedral cobalt oxide nanocrystals with a Co-terminated surface as an oxygen evolution and reduction electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7416-7422.	10.3	23
51	CoNiO ₂ /TiO _x Ny composites for ultrahigh electrochemical energy storage and simultaneous glucose sensing. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10904.	10.3	19
52	Towards Carbon-Neutral Methanol Production from Carbon Dioxide Electroreduction. <i>ChemNanoMat</i> , 2021, 7, 728-736.	2.8	17
53	Bias-free, solar-charged electric double-layer capacitors. <i>Nanoscale</i> , 2014, 6, 15316-15320.	5.6	13
54	Separator-Integrated, Reversely Connectable Symmetric Lithium-Ion Battery. <i>Small</i> , 2016, 12, 1091-1097.	10.0	13

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55	Assessing the economic potential of large-scale carbonate-formation-free CO ₂ electrolysis. <i>Catalysis Science and Technology</i> , 2022, 12, 2912-2919.	4.1	13
56	Aqueous Li-ion cells with superior cycling performance using multi-channeled polyaniline/Fe ₂ O ₃ nanotube anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20177-20181.	10.3	12
57	Artificial metabolism-inspired photoelectrochemical probing of biomolecules and cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15752-15757.	10.3	11
58	Morphology-dependent vanadium oxide nanostructures grown on Ti foil for Li-ion battery. <i>Journal of Colloid and Interface Science</i> , 2014, 432, 297-301.	9.4	5
59	Thiophene- and selenophene-based conjugated polymeric mixed ionic/electronic conductors. <i>Journal of Chemical Physics</i> , 2021, 155, 134704.	3.0	2
60	Energy Storage: Achieving High Aqueous Energy Storage via Hydrogen Generation Passivation (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	21.8	0