

Kuang-Hsu Wu

List of Publications by Year in descending order

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times ranked

6413
citing authors

#	ARTICLE	IF	CITATIONS
1	A generalized approach to adjust the catalytic activity of borocarbonitride for alkane oxidative dehydrogenation reactions. <i>Journal of Catalysis</i> , 2022, 405, 105-115.	6.2	15
2	Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2022, 144, 2208-2217.	13.7	103
3	Regulating electron transfer over asymmetric low-spin Co(II) for highly selective electrocatalysis. <i>Chem Catalysis</i> , 2022, 2, 372-385.	6.1	50
4	Reconstructing Cu Nanoparticle Supported on Vertical Graphene Surfaces via Electrochemical Treatment to Tune the Selectivity of CO ₂ Reduction toward Valuable Products. <i>ACS Catalysis</i> , 2022, 12, 4792-4805.	11.2	24
5	Overall Oxygen Electrocatalysis on Nitrogen-Modified Carbon Catalysts: Identification of Active Sites and In-Situ Observation of Reactive Intermediates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3299-3306.	13.8	42
6	Pt ₃ Co@Pt Core@shell Nanoparticles as Efficient Oxygen Reduction Electrocatalysts in Direct Methanol Fuel Cell. <i>ChemCatChem</i> , 2021, 13, 1587-1594.	3.7	23
7	Gesamt-Sauerstoff-Elektrokatalyse auf stickstoffmodifizierten Kohlenstoffkatalysatoren: Identifizierung aktiver Zentren und In-situ-Beobachtung reaktiver Zwischenprodukte. <i>Angewandte Chemie</i> , 2021, 133, 3336-3343.	2.0	5
8	High yield electrooxidation of 5-hydroxymethyl furfural catalysed by unsaturated metal sites in CoFe Prussian Blue Analogue films. <i>Green Chemistry</i> , 2021, 23, 4333-4337.	9.0	19
9	Insight into the Metal-Support Interactions between Ruthenium and Nanodiamond-derived Carbon material for CO Oxidation. <i>ChemCatChem</i> , 2021, 13, 1368-1374.	3.7	5
10	Electronically Modified Atomic Sites Within a Multicomponent Co/Cu Composite for Efficient Oxygen Electroreduction. <i>Advanced Energy Materials</i> , 2021, 11, 2100303.	19.5	61
11	Oxygen Reduction Reaction: Electronically Modified Atomic Sites Within a Multicomponent Co/Cu Composite for Efficient Oxygen Electroreduction (Adv. Energy Mater. 17/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170067.	19.5	2
12	Highly Efficient Electroreforming of 5-Hydroxymethylfurfural on Vertically Oriented Nickel Nanosheet/Carbon Hybrid Catalysts: Structure-Function Relationships. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14528-14535.	13.8	98
13	Ligand-Promoted Cooperative Electrochemical Oxidation of Bio-Alcohol on Distorted Cobalt Hydroxides for Bio-Hydrogen Extraction. <i>ChemSusChem</i> , 2021, 14, 2612-2620.	6.8	6
14	Highly Efficient Electroreforming of 5-Hydroxymethylfurfural on Vertically Oriented Nickel Nanosheet/Carbon Hybrid Catalysts: Structure-Function Relationships. <i>Angewandte Chemie</i> , 2021, 133, 14649-14656.	2.0	18
15	Tuning the Chemical Properties of Co ₃ Ti ₂ C ₂ T _x MXene Materials for Catalytic CO ₂ Reduction. <i>Small</i> , 2021, 17, e2007509.	10.0	35
16	Intrinsic ORR Activity Enhancement of Pt Atomic Sites by Engineering the d-Band Center via Local Coordination Tuning. <i>Angewandte Chemie</i> , 2021, 133, 22082-22088.	2.0	4
17	Intrinsic ORR Activity Enhancement of Pt Atomic Sites by Engineering the d-Band Center via Local Coordination Tuning. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21911-21917.	13.8	132
18	Rotating Ring-Disc Electrode Method: Dissecting Oxygen Reduction Reaction Through a Different Lens. <i>ChemElectroChem</i> , 2021, 8, 644-647.	3.4	1

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19	Nanodiamonds @ N, P co-modified mesoporous carbon supported on macroscopic SiC foam for oxidative dehydrogenation of ethylbenzene. <i>Catalysis Today</i> , 2020, 357, 231-239.	4.4	17
20	Probing the origin of the enhanced catalytic performance of sp ³ @sp ² nanocarbon supported Pd catalyst for CO oxidation. <i>Carbon</i> , 2020, 156, 463-469.	10.3	5
21	<i>In Situ</i> Sulfurized Carbon-Confined Cobalt for Long-Life Mg/S Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 2516-2525.	5.1	23
22	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. <i>ACS Energy Letters</i> , 2020, 5, 3560-3568.	17.4	70
23	Dynamic single-site polysulfide immobilization in long-range disorder Cu-MOFs. <i>Chemical Communications</i> , 2020, 56, 10074-10077.	4.1	1
24	Creation of N-C=O active groups on N-doped CNT as an efficient CarboCatalyst for solvent-free aerobic coupling of benzylamine. <i>Carbon</i> , 2020, 170, 338-346.	10.3	27
25	Structural transformation of highly active metal-organic framework electrocatalysts during the oxygen evolution reaction. <i>Nature Energy</i> , 2020, 5, 881-890.	39.5	647
26	Real-time Carbon Monoxide Detection using a Rotating Gold Ring Electrode: A Feasibility Study. <i>ChemElectroChem</i> , 2020, 7, 4417-4422.	3.4	4
27	Confined Fe-Cu Clusters as Sub-Nanometer Reactors for Efficiently Regulating the Electrochemical Nitrogen Reduction Reaction. <i>Advanced Materials</i> , 2020, 32, e2004382.	21.0	152
28	Recent Progress of Carbon-Supported Single-Atom Catalysts for Energy Conversion and Storage. <i>Matter</i> , 2020, 3, 1442-1476.	10.0	196
29	Highly Selective Hydrogen Peroxide Electrosynthesis on Carbon: In Situ Interface Engineering with Surfactants. <i>Chem</i> , 2020, 6, 1443-1458.	11.7	141
30	Editorial: Carbon Catalysis: Focus on Sustainable Chemical Technology. <i>Frontiers in Chemistry</i> , 2020, 8, 308.	3.6	1
31	Facettierte verzweigte Nickel-Nanopartikel mit variierbarer Verzweigungslänge für die hochaktive elektrokatalytische Oxidation von Biomasse. <i>Angewandte Chemie</i> , 2020, 132, 15615-15620.	2.0	18
32	Ionic liquid derived Fe, N, B co-doped bamboo-like carbon nanotubes as an efficient oxygen reduction catalyst. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 637-644.	9.4	25
33	Molybdenum carbide clusters for thermal conversion of CO ₂ to CO via reverse water-gas shift reaction. <i>Journal of Energy Chemistry</i> , 2020, 50, 37-43.	12.9	38
34	Oxygen reduction to hydrogen peroxide on oxidized nanocarbon: Identification and quantification of active sites. <i>Journal of Colloid and Interface Science</i> , 2020, 573, 376-383.	9.4	78
35	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for High-Activity Electrocatalytic Oxidation of Biomass. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15487-15491.	13.8	83
36	A Special Section on Hierarchical Nanostructured Materials for Sustainable Catalysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 1083-1084.	0.9	0

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37	Ternary MnO/CoMn alloy@N-doped graphitic composites derived from a bi-metallic pigment as bi-functional electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20649-20657.	10.3	33
38	Modulating Activity through Defect Engineering of Tin Oxides for Electrochemical CO ₂ Reduction. <i>Advanced Science</i> , 2019, 6, 1900678.	11.2	92
39	Bimetallic Metal-Organic Framework Derived Metal-Carbon Hybrid for Efficient Reversible Oxygen Electrocatalysis. <i>Frontiers in Chemistry</i> , 2019, 7, 747.	3.6	22
40	Unlocking high-potential non-persistent radical chemistry for semi-aqueous redox batteries. <i>Chemical Communications</i> , 2019, 55, 2154-2157.	4.1	14
41	N,P co-coordinated Fe species embedded in carbon hollow spheres for oxygen electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14732-14742.	10.3	80
42	Hydrophilic tannic acid-modified WS ₂ nanosheets for enhanced polysulfide conversion in aqueous media. <i>JPhys Energy</i> , 2019, 1, 015005.	5.3	2
43	N-Doped 3D Mesoporous Carbon/Carbon Nanotubes Monolithic Catalyst for H ₂ S Selective Oxidation. <i>ACS Applied Nano Materials</i> , 2019, 2, 3780-3792.	5.0	43
44	Spherical Murray-Type Assembly of Co@N@C Nanoparticles as a High-Performance Trifunctional Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9925-9933.	8.0	49
45	A hierarchical porous Fe-N impregnated carbon-graphene hybrid for high-performance oxygen reduction reaction. <i>Carbon</i> , 2019, 144, 798-804.	10.3	51
46	Surface chemistry of nanocarbon: Characterization strategies from the viewpoint of catalysis and energy conversion. <i>Carbon</i> , 2019, 143, 915-936.	10.3	61
47	Oxygen Electrocatalysis at Mn ^{III} @O _x /C Hybrid Heterojunction: An Electronic Synergy or Cooperative Catalysis?. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 706-713.	8.0	7
48	Phosphorus oxide clusters stabilized by carbon nanotubes for selective isomerization and dehydrogenation of Î ² -isopentene. <i>Catalysis Science and Technology</i> , 2018, 8, 1522-1527.	4.1	11
49	Trends in activity for the oxygen evolution reaction on transition metal (M = Fe, Co, Ni) phosphide pre-catalysts. <i>Chemical Science</i> , 2018, 9, 3470-3476.	7.4	443
50	Carbocatalysing the preparation of N-Rich heterocycles with an unprecedented mechanism. <i>Carbon</i> , 2018, 130, 714-723.	10.3	7
51	Core/Shell NiFe Nanoalloy with a Discrete N-doped Graphitic Carbon Cover for Enhanced Water Oxidation. <i>ChemElectroChem</i> , 2018, 5, 732-736.	3.4	26
52	Structure-performance relationship of nanodiamonds @ nitrogen-doped mesoporous carbon in the direct dehydrogenation of ethylbenzene. <i>Catalysis Today</i> , 2018, 301, 38-47.	4.4	31
53	Nanodiamond@Core-Reinforced, Graphene@Shell-Immobilized Platinum Nanoparticles as a Highly Active Catalyst for the Low-Temperature Dehydrogenation of n-Butane. <i>ChemCatChem</i> , 2018, 10, 520-524.	3.7	15
54	Benchmarking the Oxygen Reduction Electroactivity of First-Row Transition-Metal Oxide Clusters on Carbon Nanotubes. <i>ChemElectroChem</i> , 2018, 5, 1862-1867.	3.4	10

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55	Long-chain solid organic polysulfide cathode for high-capacity secondary lithium batteries. <i>Energy Storage Materials</i> , 2018, 12, 30-36.	18.0	31
56	Electrocatalytic Water Oxidation at Quinone-on-Carbon: A Model System Study. <i>Journal of the American Chemical Society</i> , 2018, 140, 14717-14724.	13.7	48
57	Translated structural morphology of conductive polymer nanofilms synthesized by vapor phase polymerization. <i>Synthetic Metals</i> , 2018, 244, 113-119.	3.9	11
58	Decisive Intermediates Responsible for the Carbonaceous Products of CO ₂ Electroreduction on Nitrogen-Doped sp ² Nanocarbon Catalysts in NaHCO ₃ Aqueous Electrolyte. <i>ChemElectroChem</i> , 2017, 4, 1274-1278.	3.4	9
59	Direct Insight into Ethane Oxidative Dehydrogenation over Boron Nitrides. <i>ChemCatChem</i> , 2017, 9, 3293-3297.	3.7	112
60	In Situ Electrostatic Modulation of Path Selectivity for the Oxygen Reduction Reaction on Fe-N Doped Carbon Catalyst. <i>Chemistry of Materials</i> , 2017, 29, 4649-4653.	6.7	23
61	The Coulombic Nature of Active Nitrogen Sites in N-Doped Nanodiamond Revealed In Situ by Ionic Surfactants. <i>ACS Catalysis</i> , 2017, 7, 3295-3300.	11.2	20
62	Functions in cooperation for enhanced oxygen reduction reaction: the independent roles of oxygen and nitrogen sites in metal-free nanocarbon and their functional synergy. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3239-3248.	10.3	37
63	Reduced graphene oxide: a metal-free catalyst for aerobic oxidative desulfurization. <i>Green Chemistry</i> , 2017, 19, 1175-1181.	9.0	134
64	A green and economical vapor-assisted ozone treatment process for surface functionalization of carbon nanotubes. <i>Green Chemistry</i> , 2017, 19, 1052-1062.	9.0	36
65	Enhanced Stability of Immobilized Platinum Nanoparticles through Nitrogen Heteroatoms on Doped Carbon Supports. <i>Chemistry of Materials</i> , 2017, 29, 8670-8678.	6.7	44
66	Pd@C core-shell nanoparticles on carbon nanotubes as highly stable and selective catalysts for hydrogenation of acetylene to ethylene. <i>Nanoscale</i> , 2017, 9, 14317-14321.	5.6	37
67	Molybdenum Carbide Modified Nanocarbon Catalysts for Alkane Dehydrogenation Reactions. <i>ACS Catalysis</i> , 2017, 7, 5820-5827.	11.2	55
68	Hydrotalcite-wrapped Co-B alloy with enhanced oxygen evolution activity. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1021-1027.	14.0	11
69	Efficient and Highly Selective Solvent-Free Oxidation of Primary Alcohols to Aldehydes Using Bucky Nanodiamond. <i>ChemSusChem</i> , 2017, 10, 3497-3505.	6.8	14
70	Revealing the Origin of Activity in Nitrogen-Doped Nanocarbons towards Electrocatalytic Reduction of Carbon Dioxide. <i>ChemSusChem</i> , 2016, 9, 1085-1089.	6.8	143
71	A comparative study on layered cobalt hydroxides in water oxidation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 415-423.	1.5	10
72	Enhanced Electroactivity of Facet-Controlled Co ₃ O ₄ Nanocrystals for Enzymeless Biosensing. <i>Journal of Materials Science and Technology</i> , 2016, 32, 24-27.	10.7	12

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73	The influence of carbon surface chemistry on supported palladium nanoparticles in heterogeneous reactions. <i>Journal of Colloid and Interface Science</i> , 2016, 480, 175-183.	9.4	16
74	An Extension to the Analytical Evaluation of the Oxygen Reduction Reaction Based On the Electrokinetics On a Rotating Ringâ€”Disk Electrode. <i>ChemElectroChem</i> , 2016, 3, 622-628.	3.4	19
75	Metalâ€”Ligand Complexes as Molecular Metal-Ion Reservoirs for Highly Promoted Growth of Pd-Co(OH)_2 Microplates. <i>Crystal Growth and Design</i> , 2016, 16, 8-11.	3.0	13
76	Structural Origin of the Activity in Mn_3O_4 â€”Graphene Oxide Hybrid Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2015, 8, 3331-3339.	6.8	56
77	A Discussion on the Activity Origin in Metalâ€”Free Nitrogenâ€”Doped Carbons For Oxygen Reduction Reaction and their Mechanisms. <i>ChemSusChem</i> , 2015, 8, 2772-2788.	6.8	111
78	Electroactive cellulose-supported graphene oxide interlayers for Liâ€”S batteries. <i>Carbon</i> , 2015, 93, 611-619.	10.3	71
79	Dependence of LiNO_3 decomposition on cathode binders in Liâ€”S batteries. <i>Journal of Power Sources</i> , 2015, 288, 13-19.	7.8	45
80	Reduction-induced surface amorphization enhances the oxygen evolution activity in Co_3O_4 . <i>RSC Advances</i> , 2015, 5, 27823-27828.	3.6	40
81	Electron-beam writing of deoxygenated micro-patterns on graphene oxide film. <i>Carbon</i> , 2015, 95, 738-745.	10.3	20
82	Revisiting oxygen reduction reaction on oxidized and unzipped carbon nanotubes. <i>Carbon</i> , 2015, 81, 295-304.	10.3	64
83	Synergy of nanoconfinement and surface oxygen in recrystallization of sulfur melt in carbon nanocapsules and the related Liâ€”S cathode properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6439.	10.3	36
84	Solution phase synthesis of halogenated graphene and the electrocatalytic activity for oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2014, 35, 884-890.	14.0	25
85	The value of mixed conduction for oxygen electroreduction on grapheneâ€”chitosan composites. <i>Carbon</i> , 2014, 73, 234-243.	10.3	14
86	A microporousâ€”mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Liâ€”S batteries. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8703.	2.8	273
87	Anodic chlorine/nitrogen co-doping of reduced graphene oxide films at room temperature. <i>Carbon</i> , 2012, 50, 3333-3341.	10.3	44