Kuang-Hsu Wu

List of Publications by Year
in descending order

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87 papers	4,802 citations	116194 36 h-index	111975 67 g-index
90 all docs	90 docs citations	90 times ranked	7345 citing authors

#	Article	IF	Citations
1	A generalized approach to adjust the catalytic activity of borocarbonitride for alkane oxidative dehydrogenation reactions. Journal of Catalysis, 2022, 405, 105-115.	3.1	15
2	Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2022, 144, 2208-2217.	6.6	103
3	Regulating electron transfer over asymmetric low-spin Co(II) for highly selective electrocatalysis. Chem Catalysis, 2022, 2, 372-385.	2.9	50
4	Reconstructing Cu Nanoparticle Supported on Vertical Graphene Surfaces via Electrochemical Treatment to Tune the Selectivity of CO₂ Reduction toward Valuable Products. ACS Catalysis, 2022, 12, 4792-4805.	5.5	24
5	Overall Oxygen Electrocatalysis on Nitrogenâ€Modified Carbon Catalysts: Identification of Active Sites and Inâ€…Situ Observation of Reactive Intermediates. Angewandte Chemie - International Edition, 2021, 60, 3299-3306.	7.2	42
6	Pt₃Co@Pt Core@shell Nanoparticles as Efficient Oxygen Reduction Electrocatalysts in Direct Methanol Fuel Cell. ChemCatChem, 2021, 13, 1587-1594.	1.8	23
7	Gesamtâ€Sauerstoffâ€Elektrokatalyse auf stickstoffmodifizierten Kohlenstoffkatalysatoren: Identifizierung aktiver Zentren und Inâ€situâ€Beobachtung reaktiver Zwischenprodukte. Angewandte Chemie, 2021, 133, 3336-3343.	1.6	5
8	High yield electrooxidation of 5-hydroxymethyl furfural catalysed by unsaturated metal sites in CoFe Prussian Blue Analogue films. Green Chemistry, 2021, 23, 4333-4337.	4.6	19
9	Insight into the Metalâ€Support Interactions between Ruthenium and Nanodiamondâ€derived Carbon material for CO Oxidation. ChemCatChem, 2021, 13, 1368-1374.	1.8	5
10	Electronically Modified Atomic Sites Within a Multicomponent Co/Cu Composite for Efficient Oxygen Electroreduction. Advanced Energy Materials, 2021, 11, 2100303.	10.2	61
11	Oxygen Reduction Reaction: Electronically Modified Atomic Sites Within a Multicomponent Co/Cu Composite for Efficient Oxygen Electroreduction (Adv. Energy Mater. 17/2021). Advanced Energy Materials, 2021, 11, 2170067.	10.2	2
12	Highly Efficient Electroâ€reforming of 5â€Hydroxymethylfurfural on Vertically Oriented Nickel Nanosheet/Carbon Hybrid Catalysts: Structureâ€“Function Relationships. Angewandte Chemie - International Edition, 2021, 60, 14528-14535.	7.2	98
13	Ligandâ€Promoted Cooperative Electrochemical Oxidation of Bioâ€Alcohol on Distorted Cobalt Hydroxides for Bioâ€Hydrogen Extraction. ChemSusChem, 2021, 14, 2612-2620.	3.6	6
14	Highly Efficient Electroâ€reforming of 5â€Hydroxymethylfurfural on Vertically Oriented Nickel Nanosheet/Carbon Hybrid Catalysts: Structureâ€“Function Relationships. Angewandte Chemie, 2021, 133, 14649-14656.	1.6	18
15	Tuning the Chemical Properties of Coâ€“Ti₃C₂T_x MXene Materials for Catalytic CO₂ Reduction. Small, 2021, 17, e2007509.	5.2	35
16	Intrinsic ORR Activity Enhancement of Pt Atomic Sites by Engineering the d â€Band Center via Local Coordination Tuning. Angewandte Chemie, 2021, 133, 22082-22088.	1.6	4
17	Intrinsic ORR Activity Enhancement of Pt Atomic Sites by Engineering the dâ€Band Center via Local Coordination Tuning. Angewandte Chemie - International Edition, 2021, 60, 21911-21917.	7.2	132
18	Rotating Ringâ€Disc Electrode Method: Dissecting Oxygen Reduction Reaction Through a Different Lens. ChemElectroChem, 2021, 8, 644-647.	1.7	1

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19	Nanodiamonds @ N, P co-modified mesoporous carbon supported on macroscopic SiC foam for oxidative dehydrogenation of ethylbenzene. Catalysis Today, 2020, 357, 231-239.	2.2	17
20	Probing the origin of the enhanced catalytic performance of sp3@sp2 nanocarbon supported Pd catalyst for CO oxidation. Carbon, 2020, 156, 463-469.	5.4	5
21	In Situ Sulfurized Carbon-Confined Cobalt for Long-Life Mg/S Batteries. ACS Applied Energy Materials, 2020, 3, 2516-2525.	2.5	23
22	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. ACS Energy Letters, 2020, 5, 3560-3568.	8.8	70
23	Dynamic single-site polysulfide immobilization in long-range disorder Cu-MOFs. Chemical Communications, 2020, 56, 10074-10077.	2.2	1
24	Creation of N-C=O active groups on N-doped CNT as an efficient CarboCatalyst for solvent-free aerobic coupling of benzylamine. Carbon, 2020, 170, 338-346.	5.4	27
25	Structural transformation of highly active metalâ€“organic framework electrocatalysts during the oxygen evolution reaction. Nature Energy, 2020, 5, 881-890.	19.8	647
26	Realâ€Time Carbon Monoxide Detection using a Rotating Gold Ring Electrode: A Feasibility Study. ChemElectroChem, 2020, 7, 4417-4422.	1.7	4
27	Confined Feâ€“Cu Clusters as Subâ€Nanometer Reactors for Efficiently Regulating the Electrochemical Nitrogen Reduction Reaction. Advanced Materials, 2020, 32, e2004382.	11.1	152
28	Recent Progress of Carbon-Supported Single-Atom Catalysts for Energy Conversion and Storage. Matter, 2020, 3, 1442-1476.	5.0	196
29	Highly Selective Hydrogen Peroxide Electrosynthesis on Carbon: In Situ Interface Engineering with Surfactants. CheM, 2020, 6, 1443-1458.	5.8	141
30	Editorial: Carbon Catalysis: Focus on Sustainable Chemical Technology. Frontiers in Chemistry, 2020, 8, 308.	1.8	1
31	Facettierte verzweigte Nickelâ€Nanopartikel mit variierbarer VerzweigungslÃnge fÃ¼r die hochaktive elektrokatalytische Oxidation von Biomasse. Angewandte Chemie, 2020, 132, 15615-15620.	1.6	18
32	Ionic liquid derived Fe, N, B co-doped bamboo-like carbon nanotubes as an efficient oxygen reduction catalyst. Journal of Colloid and Interface Science, 2020, 579, 637-644.	5.0	25
33	Molybdenum carbide clusters for thermal conversion of CO2 to CO via reverse water-gas shift reaction. Journal of Energy Chemistry, 2020, 50, 37-43.	7.1	38
34	Oxygen reduction to hydrogen peroxide on oxidized nanocarbon: Identification and quantification of active sites. Journal of Colloid and Interface Science, 2020, 573, 376-383.	5.0	78
35	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for Highâ€Activity Electrocatalytic Oxidation of Biomass. Angewandte Chemie - International Edition, 2020, 59, 15487-15491.	7.2	83
36	A Special Section on Hierarchical Nanostructured Materials for Sustainable Catalysis. Journal of Nanoscience and Nanotechnology, 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. Journal of Materials Chemistry A, 2019, 7, 20649-20657.	5.2	33
38	Modulating Activity through Defect Engineering of Tin Oxides for Electrochemical CO₂ Reduction. Advanced Science, 2019, 6, 1900678.	5.6	92
39	Bimetallic Metal-Organic Framework Derived Metal-Carbon Hybrid for Efficient Reversible Oxygen Electrocatalysis. Frontiers in Chemistry, 2019, 7, 747.	1.8	22
40	Unlocking high-potential non-persistent radical chemistry for semi-aqueous redox batteries. Chemical Communications, 2019, 55, 2154-2157.	2.2	14
41	N,P co-coordinated Fe species embedded in carbon hollow spheres for oxygen electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 14732-14742.	5.2	80
42	Hydrophilic tannic acid-modified WS₂ nanosheets for enhanced polysulfide conversion in aqueous media. JPhys Energy, 2019, 1, 015005.	2.3	2
43	N-Doped 3D Mesoporous Carbon/Carbon Nanotubes Monolithic Catalyst for H₂S Selective Oxidation. ACS Applied Nano Materials, 2019, 2, 3780-3792.	2.4	43
44	Spherical Murray-Type Assembly of Coâ€“Nâ€“C Nanoparticles as a High-Performance Trifunctional Electrocatalyst. ACS Applied Materials & Interfaces, 2019, 11, 9925-9933.	4.0	49
45	A hierarchical porous Fe-N impregnated carbon-graphene hybrid for high-performance oxygen reduction reaction. Carbon, 2019, 144, 798-804.	5.4	51
46	Surface chemistry of nanocarbon: Characterization strategies from the viewpoint of catalysis and energy conversion. Carbon, 2019, 143, 915-936.	5.4	61
47	Oxygen Electrocatalysis at Mn^{III}â€“O_xâ€“C Hybrid Heterojunction: An Electronic Synergy or Cooperative Catalysis?. ACS Applied Materials & Interfaces, 2019, 11, 706-713.	4.0	7
48	Phosphorus oxide clusters stabilized by carbon nanotubes for selective isomerization and dehydrogenation of Î²-isopentene. Catalysis Science and Technology, 2018, 8, 1522-1527.	2.1	11
49	Trends in activity for the oxygen evolution reaction on transition metal (M = Fe, Co, Ni) phosphide pre-catalysts. Chemical Science, 2018, 9, 3470-3476.	3.7	443
50	Carbocatalysing the preparation of N-Rich heterocycles with an unprecedented mechanism. Carbon, 2018, 130, 714-723.	5.4	7
51	Core/Shell NiFe Nanoalloy with a Discrete Nâ€doped Graphitic Carbon Cover for Enhanced Water Oxidation. ChemElectroChem, 2018, 5, 732-736.	1.7	26
52	Structure-performance relationship of nanodiamonds @ nitrogen-doped mesoporous carbon in the direct dehydrogenation of ethylbenzene. Catalysis Today, 2018, 301, 38-47.	2.2	31
53	Nanodiamondâ€Coreâ€Reinforced, Grapheneâ€Shellâ€Immobilized Platinum Nanoparticles as a Highly Active Catalyst for the Lowâ€Temperature Dehydrogenation of nâ€Butane. ChemCatChem, 2018, 10, 520-524.	1.8	15
54	Benchmarking the Oxygen Reduction Electroactivity of Firstâ€Row Transitionâ€Metal Oxide Clusters on Carbon Nanotubes. ChemElectroChem, 2018, 5, 1862-1867.	1.7	10

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55	Long-chain solid organic polysulfide cathode for high-capacity secondary lithium batteries. Energy Storage Materials, 2018, 12, 30-36.	9.5	31
56	Electrocatalytic Water Oxidation at Quinone-on-Carbon: A Model System Study. Journal of the American Chemical Society, 2018, 140, 14717-14724.	6.6	48
57	Translated structural morphology of conductive polymer nanofilms synthesized by vapor phase polymerization. Synthetic Metals, 2018, 244, 113-119.	2.1	11
58	Decisive Intermediates Responsible for the Carbonaceous Products of CO₂ Electroâ€reduction on Nitrogenâ€Doped sp² Nanocarbon Catalysts in NaHCO₃ Aqueous Electrolyte. ChemElectroChem, 2017, 4, 1274-1278.	1.7	9
59	Direct Insight into Ethane Oxidative Dehydrogenation over Boron Nitrides. ChemCatChem, 2017, 9, 3293-3297.	1.8	112
60	In Situ Electrostatic Modulation of Path Selectivity for the Oxygen Reduction Reaction on Feâ€“N Doped Carbon Catalyst. Chemistry of Materials, 2017, 29, 4649-4653.	3.2	23
61	The Coulombic Nature of Active Nitrogen Sites in N-Doped Nanodiamond Revealed In Situ by Ionic Surfactants. ACS Catalysis, 2017, 7, 3295-3300.	5.5	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. Journal of Materials Chemistry A, 2017, 5, 3239-3248.	5.2	37
63	Reduced graphene oxide: a metal-free catalyst for aerobic oxidative desulfurization. Green Chemistry, 2017, 19, 1175-1181.	4.6	134
64	A green and economical vapor-assisted ozone treatment process for surface functionalization of carbon nanotubes. Green Chemistry, 2017, 19, 1052-1062.	4.6	36
65	Enhanced Stability of Immobilized Platinum Nanoparticles through Nitrogen Heteroatoms on Doped Carbon Supports. Chemistry of Materials, 2017, 29, 8670-8678.	3.2	44
66	Pd@C coreâ€“shell nanoparticles on carbon nanotubes as highly stable and selective catalysts for hydrogenation of acetylene to ethylene. Nanoscale, 2017, 9, 14317-14321.	2.8	37
67	Molybdenum Carbide Modified Nanocarbon Catalysts for Alkane Dehydrogenation Reactions. ACS Catalysis, 2017, 7, 5820-5827.	5.5	55
68	Hydrotalcite-wrapped Coâ€“B alloy with enhanced oxygen evolution activity. Chinese Journal of Catalysis, 2017, 38, 1021-1027.	6.9	11
69	Efficient and Highly Selective Solventâ€Free Oxidation of Primary Alcohols to Aldehydes Using Bucky Nanodiamond. ChemSusChem, 2017, 10, 3497-3505.	3.6	14
70	Revealing the Origin of Activity in Nitrogenâ€Doped Nanocarbons towards Electrocatalytic Reduction of Carbon Dioxide. ChemSusChem, 2016, 9, 1085-1089.	3.6	143
71	A comparative study on layered cobalt hydroxides in water oxidation. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 415-423.	0.8	10
72	Enhanced Electroactivity of Facet-Controlled Co3O4 Nanocrystals for Enzymeless Biosensing. Journal of Materials Science and Technology, 2016, 32, 24-27.	5.6	12

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73	The influence of carbon surface chemistry on supported palladium nanoparticles in heterogeneous reactions. Journal of Colloid and Interface Science, 2016, 480, 175-183.	5.0	16
74	An Extension to the Analytical Evaluation of the Oxygen Reduction Reaction Based On the Electrokinetics On a Rotating Ringâ€“Disk Electrode. ChemElectroChem, 2016, 3, 622-628.	1.7	19
75	Metalâ€“Ligand Complexes as Molecular Metal-Ion Reservoirs for Highly Promoted Growth of Î²-Co(OH)2 Microplates. Crystal Growth and Design, 2016, 16, 8-11.	1.4	13
76	Structural Origin of the Activity in Mn₃O₄â€“Graphene Oxide Hybrid Electrocatalysts for the Oxygen Reduction Reaction. ChemSusChem, 2015, 8, 3331-3339.	3.6	56
77	A Discussion on the Activity Origin in Metalâ€Free Nitrogenâ€Doped Carbons For Oxygen Reduction Reaction and their Mechanisms. ChemSusChem, 2015, 8, 2772-2788.	3.6	111
78	Electroactive cellulose-supported graphene oxide interlayers for Liâ€“S batteries. Carbon, 2015, 93, 611-619.	5.4	71
79	Dependence of LiNO 3 decomposition on cathode binders in Liâ€“S batteries. Journal of Power Sources, 2015, 288, 13-19.	4.0	45
80	Reduction-induced surface amorphization enhances the oxygen evolution activity in Co3O4. RSC Advances, 2015, 5, 27823-27828.	1.7	40
81	Electron-beam writing of deoxygenated micro-patterns on graphene oxide film. Carbon, 2015, 95, 738-745.	5.4	20
82	Revisiting oxygen reduction reaction on oxidized and unzipped carbon nanotubes. Carbon, 2015, 81, 295-304.	5.4	64
83	Synergy of nanoconfinement and surface oxygen in recrystallization of sulfur melt in carbon nanocapsules and the related Liâ€“S cathode properties. Journal of Materials Chemistry A, 2014, 2, 6439.	5.2	36
84	Solution phase synthesis of halogenated graphene and the electrocatalytic activity for oxygen reduction reaction. Chinese Journal of Catalysis, 2014, 35, 884-890.	6.9	25
85	The value of mixed conduction for oxygen electroreduction on grapheneâ€“chitosan composites. Carbon, 2014, 73, 234-243.	5.4	14
86	A microporousâ€“mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Liâ€“S batteries. Physical Chemistry Chemical Physics, 2012, 14, 8703.	1.3	273
87	Anodic chlorine/nitrogen co-doping of reduced graphene oxide films at room temperature. Carbon, 2012, 50, 3333-3341.	5.4	44