Jingjie Wu

List of Publications by Year
in descending order

105	10,581	31902 53	31759 101
papers	citations	h-index	g-index

106	106	106	13359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Switching CO₂ Electroreduction Selectivity Between C₁ and C₂ Hydrocarbons on Cu Gasâ€Diffusion Electrodes. Energy and Environmental Materials, 2023, 6, .	7.3	7
2	Amineâ€Functionalized Carbon Nanodot Electrocatalysts Converting Carbon Dioxide to Methane. Advanced Materials, 2022, 34, e2105690.	11.1	59
3	Pseudocapacitive TiNb2O7/reduced graphene oxide nanocomposite for highâ€“rate lithium ion hybrid capacitors. Journal of Colloid and Interface Science, 2022, 610, 385-394.	5.0	11
4	A Facile â€œDoubleâ€Catalystsâ€•Approach to Directionally Fabricate Pyridinic Nï£¿Bâ€Pairâ€Doped Crystal Graphene Nanoribbons/Amorphous Carbon Hybrid Electrocatalysts for Efficient Oxygen Reduction Reaction. Advanced Materials, 2022, 34, e2107040.	11.1	88
5	Highly selective and productive reduction of carbon dioxide to multicarbon products via in situ CO management using segmented tandem electrodes. Nature Catalysis, 2022, 5, 202-211.	16.1	120
6	Grain Boundaryâ€Derived Cu⁺/Cu⁰ Interfaces in CuO Nanosheets for Low Overpotential Carbon Dioxide Electroreduction to Ethylene. Advanced Science, 2022, 9, .	5.6	51
7	Planar defect-driven electrocatalysis of CO₂-to-C₂H₄ conversion. Journal of Materials Chemistry A, 2021, 9, 19932-19939.	5.2	15
8	Reconstructing two-dimensional defects in CuO nanowires for efficient CO₂ electroreduction to ethylene. Chemical Communications, 2021, 57, 8276-8279.	2.2	20
9	Enhancing Defects of N-Doped Carbon Nanospheres Via Ultralow Co Atom Loading Engineering for a High-Efficiency Oxygen Reduction Reaction. ACS Applied Energy Materials, 2021, 4, 3439-3447.	2.5	18
10	Grain-boundary surface terminations incorporating oxygen vacancies for selectively boosting CO2 photoreduction activity. Nano Energy, 2021, 84, 105869.	8.2	43
11	Carbon Nanolayer-Wrapped Mesoporous TiO₂â€“B/Anatase for Li⁺ Storage. ACS Applied Nano Materials, 2021, 4, 7832-7839.	2.4	8
12	Regulation of functional groups on graphene quantum dots directs selective CO2 to CH4 conversion. Nature Communications, 2021, 12, 5265.	5.8	89
13	Tunable Synthesis of 3D Niobium Oxynitride Nanosheets for Lithium-Ion Hybrid Capacitors with High Energy/Power Density. ACS Sustainable Chemistry and Engineering, 2021, 9, 14569-14578.	3.2	7
14	Hierarchical NiCo2O4/MnO2 coreâ€“shell nanosheets arrays for flexible asymmetric supercapacitor. Journal of Materials Science, 2020, 55, 688-700.	1.7	31
15	CuO/ZnO/C electrocatalysts for CO2-to-C2+ products conversion with high yield: On the effect of geometric structure and composition. Applied Catalysis A: General, 2020, 606, 117829.	2.2	34
16	CoO Quantum Dots Anchored on Reduced Graphene Oxide Aerogels for Lithium-Ion Storage. ACS Applied Nano Materials, 2020, 3, 10369-10379.	2.4	16
17	Tuning Morphology and Electronic Structure of Amorphous NiFeB Nanosheets for Enhanced Electrocatalytic N₂ Reduction. ACS Applied Energy Materials, 2020, 3, 9516-9522.	2.5	16
18	Directly Exfoliated Ultrathin Silicon Nanosheets for Enhanced Photocatalytic Hydrogen Production. Journal of Physical Chemistry Letters, 2020, 11, 8668-8674.	2.1	14

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19	Metal Nanoparticles Confined within an Inorganicâ€“Organic Framework Enable Superior Substrate-Selective Catalysis. ACS Applied Materials & Interfaces, 2020, 12, 42739-42748.	4.0	14
20	Carbon-Coated Self-Assembled Ultrathin T-Nb₂O₅ Nanosheets for High-Rate Lithium-Ion Storage with Superior Cycling Stability. ACS Applied Energy Materials, 2020, 3, 12037-12045.	2.5	26
21	Improving the Catalytic Activity of Carbonâ€Supported Single Atom Catalysts by Polynary Metal or Heteroatom Doping. Small, 2020, 16, e1906782.	5.2	124
22	Enhance CO2-to-C2+ products yield through spatial management of CO transport in Cu/ZnO tandem electrodes. Journal of Catalysis, 2020, 387, 163-169.	3.1	56
23	Confinement of Intermediates in Blue TiO 2 Nanotube Arrays Boosts Reaction Rate of Nitrogen Electrocatalysis. ChemCatChem, 2020, 12, 2760-2767.	1.8	18
24	Self-assembly of 0D/2D homostructure for enhanced hydrogen evolution. Materials Today, 2020, 36, 83-90.	8.3	24
25	Spontaneous self-intercalation of copper atoms into transition metal dichalcogenides. Science Advances, 2020, 6, eaay4092.	4.7	67
26	Nickelâ€“Nitrogenâ€“Carbon Molecular Catalysts for High Rate CO₂ Electro-reduction to CO: On the Role of Carbon Substrate and Reaction Chemistry. ACS Applied Energy Materials, 2020, 3, 1617-1626.	2.5	28
27	Tandem Electrodes for Carbon Dioxide Reduction into C2+ Products at Simultaneously High Production Efficiency and Rate. Cell Reports Physical Science, 2020, 1, 100051.	2.8	60
28	MoS2 quantum dots decorated ultrathin NiO nanosheets for overall water splitting. Journal of Colloid and Interface Science, 2020, 566, 411-418.	5.0	38
29	Boron Doping in Tin Catalysts Towards Gas-Phase CO₂ to Formic Acid/Formate Electroreduction with High Production Efficiency and Rate. Journal of the Electrochemical Society, 2020, 167, 114508.	1.3	4
30	Reflux pretreatment-mediated sonication: A new universal route to obtain 2D quantum dots. Materials Today, 2019, 22, 17-24.	8.3	12
31	Ultrathin carbon coated mesoporous Ni-NiFe2O4 nanosheet arrays for efficient overall water splitting. Electrochimica Acta, 2019, 321, 134652.	2.6	37
32	Strong Effect of B-Site Substitution on the Reactivity of Layered Perovskite Oxides Probed via Isopropanol Conversion. , 2019, 1, 230-236.		10
33	Efficient photocatalytic hydrogen evolution mediated by defect-rich 1T-PtS₂ atomic layer nanosheet modified mesoporous graphitic carbon nitride. Journal of Materials Chemistry A, 2019, 7, 18906-18914.	5.2	44
34	Atomic Ru Immobilized on Porous h-BN through Simple Vacuum Filtration for Highly Active and Selective CO₂ Methanation. ACS Catalysis, 2019, 9, 10077-10086.	5.5	93
35	3D carbon coated NiCo2S4 nanowires doped with nitrogen for electrochemical energy storage and conversion. Journal of Colloid and Interface Science, 2019, 556, 449-457.	5.0	37
36	Metal-Oxide-Mediated Subtractive Manufacturing of Two-Dimensional Carbon Nitride for High-Efficiency and High-Yield Photocatalytic H₂ Evolution. ACS Nano, 2019, 13, 11294-11302.	7.3	109

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37	Doping Nanoscale Graphene Domains Improves Magnetism in Hexagonal Boron Nitride. Advanced Materials, 2019, 31, e1805778.	11.1	69
38	Enhanced supercapacitive performance of novel ultrathin SiC nanosheets directly by liquid phase exfoliation. Inorganic Chemistry Communication, 2019, 106, 174-179.	1.8	9
39	Water-Soluble Defect-Rich MoS₂ Ultrathin Nanosheets for Enhanced Hydrogen Evolution. Journal of Physical Chemistry Letters, 2019, 10, 3282-3289.	2.1	50
40	Metallic cobalt nanoparticles embedded in sulfur and nitrogen co-doped rambutan-like nanocarbons for the oxygen reduction reaction under both acidic and alkaline conditions. Journal of Materials Chemistry A, 2019, 7, 14291-14301.	5.2	37
41	Discovering superior basal plane active two-dimensional catalysts for hydrogen evolution. Materials Today, 2019, 25, 28-34.	8.3	58
42	Accelerating Photogenerated Charge Kinetics via the Synergetic Utilization of 2D Semiconducting Structural Advantages and Nobleâ€Metalâ€Free Schottky Junction Effect. Small, 2019, 15, e1804613.	5.2	56
43	Emerging Carbonâ€Based Heterogeneous Catalysts for Electrochemical Reduction of Carbon Dioxide into Valueâ€Added Chemicals. Advanced Materials, 2019, 31, e1804257.	11.1	218
44	Highly Efficient Adsorption of Oils and Pollutants by Porous Ultrathin Oxygen-Modified BCN Nanosheets. ACS Sustainable Chemistry and Engineering, 2019, 7, 3234-3242.	3.2	14
45	Steering charge transfer for boosting photocatalytic H2 evolution: Integration of two-dimensional semiconductor superiorities and noble-metal-free Schottky junction effect. Applied Catalysis B: Environmental, 2019, 245, 477-485.	10.8	64
46	In-situ formation of hierarchical 1D-3D hybridized carbon nanostructure supported nonnoble transition metals for efficient electrocatalysis of oxygen reaction. Applied Catalysis B: Environmental, 2019, 243, 151-160.	10.8	66
47	High efficiency electrochemical reduction of CO₂ beyond the two-electron transfer pathway on grain boundary rich ultra-small SnO₂ nanoparticles. Journal of Materials Chemistry A, 2018, 6, 10313-10319.	5.2	92
48	Electrochemical CO₂ Reduction with Atomic Ironâ€Dispersed on Nitrogenâ€Doped Graphene. Advanced Energy Materials, 2018, 8, 1703487.	10.2	369
49	Solvothermal synthesis of metallic 1T-WS2: A supporting co-catalyst on carbon nitride nanosheets toward photocatalytic hydrogen evolution. Chemical Engineering Journal, 2018, 335, 282-289.	6.6	161
50	Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. Advanced Materials Interfaces, 2018, 5, 1700895.	1.9	30
51	Self-assembled synthesis of defect-engineered graphitic carbon nitride nanotubes for efficient conversion of solar energy. Applied Catalysis B: Environmental, 2018, 225, 154-161.	10.8	296
52	2D heterostructure comprised of metallic 1T-MoS2/Monolayer O-g-C3N4 towards efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 220, 379-385.	10.8	231
53	Controllable synthesized heterostructure photocatalyst Mo₂C@C/2D g-C₃N₄: enhanced catalytic performance for hydrogen production. Dalton Transactions, 2018, 47, 14706-14712.	1.6	41
54	In-situ synthesis of carbon-coated Î²-NiS nanocrystals for hydrogen evolution reaction in both acidic and alkaline solution. International Journal of Hydrogen Energy, 2018, 43, 16061-16067.	3.8	11

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55	Dynamic Hosts for High-Performance Liâ€“S Batteries Studied by Cryogenic Transmission Electron Microscopy and in Situ X-ray Diffraction. ACS Energy Letters, 2018, 3, 1325-1330.	8.8	47
56	3D Coral-Like Ni₃S₂ on Ni Foam as a Bifunctional Electrocatalyst for Overall Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 31330-31339.	4.0	80
57	Selective formation of C2 products from the electrochemical conversion of CO2 on CuO-derived copper electrodes comprised of nanoporous ribbon arrays. Catalysis Today, 2017, 288, 18-23.	2.2	33
58	Growth of Molybdenum Carbideâ€“Graphene Hybrids from Molybdenum Disulfide Atomic Layer Template. Advanced Materials Interfaces, 2017, 4, 1600866.	1.9	14
59	Reversible Formation of gâ€C₃N₄ 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Roomâ€Temperature Gasâ€Sensing Properties. Advanced Functional Materials, 2017, 27, 1700653.	7.8	90
60	High Efficiency Photocatalytic Water Splitting Using 2D Î±â€Fe₂O₃/gâ€C₃N₄ Zâ€Scheme Catalysts. Advanced Energy Materials, 2017, 7, 1700025.	10.2	664
61	Hydrogels: Reversible Formation of gâ€C₃N₄ 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Roomâ€Temperature Gasâ€Sensing Properties (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Ove	7.8	0
62	Carbon Dioxide Hydrogenation over a Metal-Free Carbon-Based Catalyst. ACS Catalysis, 2017, 7, 4497-4503.	5.5	71
63	2D TiS₂ Layers: A Superior Nonlinear Optical Limiting Material. Advanced Optical Materials, 2017, 5, 1700713.	3.6	84
64	Unveiling Active Sites for the Hydrogen Evolution Reaction on Monolayer MoS₂. Advanced Materials, 2017, 29, 1701955.	11.1	249
65	Gold Nanoparticles and gâ€C₃N₄â€Intercalated Graphene Oxide Membrane for Recyclable Surface Enhanced Raman Scattering. Advanced Functional Materials, 2017, 27, 1701714.	7.8	129
66	Self-optimizing, highly surface-active layeredÂmetal dichalcogenide catalysts for hydrogen evolution. Nature Energy, 2017, 2, .	19.8	336
67	How Nitrogen-Doped Graphene Quantum Dots Catalyze Electroreduction of CO₂ to Hydrocarbons and Oxygenates. ACS Catalysis, 2017, 7, 6245-6250.	5.5	129
68	Metallic 1T-TiS₂ nanodots anchored on a 2D graphitic C₃N₄ nanosheet nanostructure with high electron transfer capability for enhanced photocatalytic performance. RSC Advances, 2017, 7, 55269-55275.	1.7	12
69	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. Science Advances, 2017, 3, e1701500.	4.7	91
70	Remarkable supercapacitive performance of TiO2 nanotube arrays by introduction of oxygen vacancies. Chemical Engineering Journal, 2017, 313, 1071-1081.	6.6	64
71	Enhancing charge density and steering charge unidirectional flow in 2D non-metallic semiconductor-CNTs-metal coupled photocatalyst for solar energy conversion. Applied Catalysis B: Environmental, 2017, 202, 112-117.	10.8	71
72	Enhanced nonlinear optical limiting in TiS2 dichalcogenide 2D Sheets. , 2017, , .		0

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73	Exfoliated 2D Transition Metal Disulfides for Enhanced Electrocatalysis of Oxygen Evolution Reaction in Acidic Medium. Advanced Materials Interfaces, 2016, 3, 1500669.	1.9	136
74	Surface Tension Components Based Selection of Cosolvents for Efficient Liquid Phase Exfoliation of 2D Materials. Small, 2016, 12, 2741-2749.	5.2	128
75	A metal-free electrocatalyst for carbon dioxide reduction to multi-carbon hydrocarbons and oxygenates. Nature Communications, 2016, 7, 13869.	5.8	505
76	Insight into In Situ Amphiphilic Functionalization of Fewâ€Layered Transition Metal Dichalcogenide Nanosheets. Advanced Materials, 2016, 28, 8469-8476.	11.1	16
77	Spiral Growth of SnSe₂ Crystals by Chemical Vapor Deposition. Advanced Materials Interfaces, 2016, 3, 1600383.	1.9	55
78	Facile synthesis of CoNi 2 S 4 and CuCo 2 S 4 with different morphologies as prominent catalysts for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2016, 41, 19847-19854.	3.8	73
79	Origin of the performance degradation and implementation of stable tin electrodes for the conversion of CO2 to fuels. Nano Energy, 2016, 27, 225-229.	8.2	37
80	Tuning the Electrochemical Reactivity of Boronâ€•and Nitrogenâ€Substituted Graphene. Advanced Materials, 2016, 28, 6239-6246.	11.1	107
81	Catalytic conversion of CO2 to value added fuels: Current status, challenges, and future directions. Chinese Journal of Catalysis, 2016, 37, 999-1015.	6.9	105
82	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. Nano Energy, 2016, 27, 138-146.	8.2	379
83	CoNi₂S₄â€Grapheneâ€2Dâ€MoSe₂ as an Advanced Electrode Material for Supercapacitors. Advanced Energy Materials, 2016, 6, 1600341.	10.2	145
84	Incorporation of Nitrogen Defects for Efficient Reduction of CO₂ via Two-Electron Pathway on Three-Dimensional Graphene Foam. Nano Letters, 2016, 16, 466-470.	4.5	435
85	Solvent-controlled formation of a reduced graphite oxide gel via hydrogen bonding. RSC Advances, 2016, 6, 27267-27271.	1.7	2
86	Towards methyl orange degradation by direct sunlight using coupled TiO2 nanoparticles and carbonized cotton T-shirt. Applied Materials Today, 2016, 3, 57-62.	2.3	12
87	Large-scale synthesis of few-layer graphene from magnesium and different carbon sources and its application in dye-sensitized solar cells. Materials and Design, 2016, 92, 462-470.	3.3	27
88	Nitrogenâ€Doped Carbon Nanotube Arrays for Highâ€Efficiency Electrochemical Reduction of CO₂: On the Understanding of Defects, Defect Density, and Selectivity. Angewandte Chemie - International Edition, 2015, 54, 13701-13705.	7.2	382
89	Facile Synthesis of Single Crystal Vanadium Disulfide Nanosheets by Chemical Vapor Deposition for Efficient Hydrogen Evolution Reaction. Advanced Materials, 2015, 27, 5605-5609.	11.1	241
90	3D Nanostructured Molybdenum Diselenide/Graphene Foam as Anodes for Long-Cycle Life Lithium-ion Batteries. Electrochimica Acta, 2015, 176, 103-111.	2.6	107

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91	Liquid Phase Exfoliation of Two-Dimensional Materials by Directly Probing and Matching Surface Tension Components. Nano Letters, 2015, 15, 5449-5454.	4.5	436
92	Nitrogen-Doped Graphene with Pyridinic Dominance as a Highly Active and Stable Electrocatalyst for Oxygen Reduction. ACS Applied Materials & Interfaces, 2015, 7, 14763-14769.	4.0	248
93	Achieving Highly Efficient, Selective, and Stable CO₂ Reduction on Nitrogen-Doped Carbon Nanotubes. ACS Nano, 2015, 9, 5364-5371.	7.3	546
94	Carbon Nitrogen Nanotubes as Efficient Bifunctional Electrocatalysts for Oxygen Reduction and Evolution Reactions. ACS Applied Materials & Interfaces, 2015, 7, 11991-12000.	4.0	120
95	Metal diselenide nanoparticles as highly active and stable electrocatalysts for the hydrogen evolution reaction. Nanoscale, 2015, 7, 14813-14816.	2.8	103
96	Vertically Aligned Carbon Nanotubes/Graphene Hybrid Electrode as a TCO- and Pt-Free Flexible Cathode for Application in Solar Cells. Journal of Materials Chemistry A, 2014, 2, 20902-20907.	5.2	47
97	Electrochemical reduction of carbon dioxide III. The role of oxide layer thickness on the performance of Sn electrode in a full electrochemical cell. Journal of Materials Chemistry A, 2014, 2, 1647-1651.	5.2	156
98	Electrochemical reduction of carbon dioxide: IV dependence of the Faradaic efficiency and current density on the microstructure and thickness of tin electrode. Journal of Power Sources, 2014, 258, 189-194.	4.0	105
99	Electrochemical Reduction of Carbon Dioxide. Journal of the Electrochemical Society, 2013, 160, F953-F957.	1.3	98
100	Effects of the Electrolyte on Electrochemical Reduction of CO₂ on Sn Electrode. ECS Transactions, 2012, 41, 49-60.	0.3	19
101	Oxygen Reduction Reaction on Active and Stable Nanoscale TiSi₂Supported Electrocatalysts. Journal of the Electrochemical Society, 2012, 159, B654-B660.	1.3	6
102	Electrochemical Reduction of Carbon Dioxide I. Effects of the Electrolyte on the Selectivity and Activity with Sn Electrode. Journal of the Electrochemical Society, 2012, 159, F353-F359.	1.3	198
103	Promotion of catalytic activity for methanol electro-oxidation on CoPc-Pt/C co-catalysts. Science Bulletin, 2009, 54, 1032-1036.	4.3	1
104	A novel catalyst Pt@NiPcTs/C: Synthesis, structural and electro-oxidation for methanol. Catalysis Communications, 2009, 10, 1271-1274.	1.6	7
105	Nickel phthalocyanine-tetrasulfonic acid as a promoter of methanol electro-oxidation on Pt/C catalyst. Journal of Applied Electrochemistry, 2008, 38, 875-879.	1.5	15