## Gengfeng Zheng

## List of Publications by Citations

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100<br/>papers11,392<br/>citations44<br/>h-index106<br/>g-index111<br/>ext. papers13,677<br/>ext. citations13.8<br/>avg, IF6.79<br/>L-index

#	Paper	IF	Citations
100	Multiplexed electrical detection of cancer markers with nanowire sensor arrays. <i>Nature Biotechnology</i> , <b>2005</b> , 23, 1294-301	44.5	1995
99	Electrical detection of single viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 14017-22	11.5	1056
98	Reduced Mesoporous Co3O4 Nanowires as Efficient Water Oxidation Electrocatalysts and Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400696	21.8	650
97	Fabrication of silicon nanowire devices for ultrasensitive, label-free, real-time detection of biological and chemical species. <i>Nature Protocols</i> , <b>2006</b> , 1, 1711-24	18.8	605
96	Boron-Doped Graphene for Electrocatalytic N2 Reduction. <i>Joule</i> , <b>2018</b> , 2, 1610-1622	27.8	517
95	Synthesis and Fabrication of High-Performance n-Type Silicon Nanowire Transistors. <i>Advanced Materials</i> , <b>2004</b> , 16, 1890-1893	24	383
94	From Water Oxidation to Reduction: Homologous Nito Based Nanowires as Complementary Water Splitting Electrocatalysts. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1402031	21.8	372
93	Cu, Co-Embedded N-Enriched Mesoporous Carbon for Efficient Oxygen Reduction and Hydrogen Evolution Reactions. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700193	21.8	339
92	Nanoparticle Superlattices as Efficient Bifunctional Electrocatalysts for Water Splitting. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14305-12	16.4	328
91	Single-Atomic Cu with Multiple Oxygen Vacancies on Ceria for Electrocatalytic CO2 Reduction to CH4. <i>ACS Catalysis</i> , <b>2018</b> , 8, 7113-7119	13.1	323
90	Defect and Interface Engineering for Aqueous Electrocatalytic CO2 Reduction. <i>Joule</i> , <b>2018</b> , 2, 2551-258	<b>82</b> :7.8	272
89	CoNi-Based Nanotubes/Nanosheets as Efficient Water Splitting Electrocatalysts. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501661	21.8	206
88	CuCo Hybrid Oxides as Bifunctional Electrocatalyst for Efficient Water Splitting. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8555-8561	15.6	197
87	One-Dimensional Earth-Abundant Nanomaterials for Water-Splitting Electrocatalysts. <i>Advanced Science</i> , <b>2017</b> , 4, 1600380	13.6	195
86	Enhancing Perovskite Solar Cell Performance by Interface Engineering Using CH3NH3PbBr0.9I2.1 Quantum Dots. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8581-7	16.4	194
85	Enhanced Nitrate-to-Ammonia Activity on Copper-Nickel Alloys via Tuning of Intermediate Adsorption. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 5702-5708	16.4	192
84	Superb Alkaline Hydrogen Evolution and Simultaneous Electricity Generation by Pt-Decorated Ni3N Nanosheets. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601390	21.8	176

## (2018-2019)

83	Doping strain induced bi-Ti pairs for efficient N activation and electrocatalytic fixation. <i>Nature Communications</i> , <b>2019</b> , 10, 2877	17.4	173
82	Aqueous electrocatalytic N2 reduction under ambient conditions. <i>Nano Research</i> , <b>2018</b> , 11, 2992-3008	10	170
81	Boosting CO2 Electroreduction to CH4 via Tuning Neighboring Single-Copper Sites. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1044-1053	20.1	154
80	Carbon-Coated Co(3+)-Rich Cobalt Selenide Derived from ZIF-67 for Efficient Electrochemical Water Oxidation. <i>ACS Applied Materials &amp; Derived Frances</i> , <b>2016</b> , 8, 20534-9	9.5	152
79	Selective Etching of Nitrogen-Doped Carbon by Steam for Enhanced Electrochemical CO2 Reduction. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701456	21.8	146
78	Topotactic Engineering of Ultrathin 2D Nonlayered Nickel Selenides for Full Water Electrolysis. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702704	21.8	138
77	Tuning of CO Reduction Selectivity on Metal Electrocatalysts. Small, 2017, 13, 1701809	11	136
76	Nanostructured Bifunctional Redox Electrocatalysts. <i>Small</i> , <b>2016</b> , 12, 5656-5675	11	134
75	Egg-Derived Mesoporous Carbon Microspheres as Bifunctional Oxygen Evolution and Oxygen Reduction Electrocatalysts. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600794	21.8	133
74	Incorporation of well-dispersed sub-5-nm graphitic pencil nanodots into ordered mesoporous frameworks. <i>Nature Chemistry</i> , <b>2016</b> , 8, 171-8	17.6	128
73	Aligned NiO nanoflake arrays grown on copper as high capacity lithium-ion battery anodes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 19821		102
72	CuCoOx/FeOOH CoreBhell Nanowires as an Efficient Bifunctional Oxygen Evolution and Reduction Catalyst. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2498-2505	20.1	92
71	Nanostructured Copper-Based Electrocatalysts for CO2 Reduction. <i>Small Methods</i> , <b>2018</b> , 2, 1800121	12.8	84
70	A flexible ligand-based wavy layered metal-organic framework for lithium-ion storage. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 445, 320-325	9.3	83
69	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
68	NbO2 Electrocatalyst Toward 32% Faradaic Efficiency for N2 Fixation. <i>Small Methods</i> , <b>2019</b> , 3, 1800386	12.8	77
67	Bifunctional CoP and CoN porous nanocatalysts derived from ZIF-67 in situ grown on nanowire photoelectrodes for efficient photoelectrochemical water splitting and CO2 reduction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15353-15360	13	75
66	Efficient solar-driven electrocatalytic CO reduction in a redox-medium-assisted system. <i>Nature Communications</i> , <b>2018</b> , 9, 5003	17.4	64

65	Enhanced N-doping in mesoporous carbon for efficient electrocatalytic CO2 conversion. <i>Nano Research</i> , <b>2019</b> , 12, 2324-2329	10	63
64	Mesoporous TiO2 Mesocrystals: Remarkable Defects-Induced Crystallite-Interface Reactivity and Their in Situ Conversion to Single Crystals. <i>ACS Central Science</i> , <b>2015</b> , 1, 400-8	16.8	63
63	2020 Roadmap on gas-involved photo- and electro- catalysis. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 2089-2	2180,9	59
62	Nanowire arrays restore vision in blind mice. <i>Nature Communications</i> , <b>2018</b> , 9, 786	17.4	58
61	Electronic Tuning of Co, Ni-Based Nanostructured (Hydr)oxides for Aqueous Electrocatalysis. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804886	15.6	53
60	Oxygen Vacancy Tuning toward Efficient Electrocatalytic CO2 Reduction to C2H4. <i>Small Methods</i> , <b>2018</b> , 3, 1800449	12.8	51
59	Sub-5 nm SnO2 chemically coupled hollow carbon spheres for efficient electrocatalytic CO2 reduction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20121-20127	13	48
58	Efficient Electrocatalytic CO2 Reduction to C2+ Alcohols at Defect-Site-Rich Cu Surface. <i>Joule</i> , <b>2021</b> , 5, 429-440	27.8	47
57	Defective graphene for electrocatalytic CO reduction. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 534, 332-337	9.3	44
56	Electron-Deficient Cu Sites on Cu3Ag1 Catalyst Promoting CO2 Electroreduction to Alcohols. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001987	21.8	43
55	Double sulfur vacancies by lithium tuning enhance CO electroreduction to n-propanol. <i>Nature Communications</i> , <b>2021</b> , 12, 1580	17.4	43
54	Achieving High Aqueous Energy Storage via Hydrogen-Generation Passivation. <i>Advanced Materials</i> , <b>2016</b> , 28, 7626-32	24	42
53	Designing Copper-Based Catalysts for Efficient Carbon Dioxide Electroreduction. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005798	24	36
52	Electron distribution tuning of fluorine-doped carbon for ammonia electrosynthesis. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16979-16983	13	35
51	2D Assembly of Confined Space toward Enhanced CO2 Electroreduction. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801230	21.8	35
50	Mesoporous tin oxide for electrocatalytic CO reduction. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 531, 564-569	9.3	32
49	Selective carbon dioxide electroreduction to ethylene and ethanol by core-shell copper/cuprous oxide. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 552, 426-431	9.3	28
48	Purcell effect in an organic-inorganic halide perovskite semiconductor microcavity system. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 022103	3.4	28

47	Oxygen vacancies enhanced cooperative electrocatalytic reduction of carbon dioxide and nitrite ions to urea. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 577, 109-114	i	27
46	Pushing the activity of CO2 electroreduction by system engineering. <i>Science Bulletin</i> , <b>2019</b> , 64, 1805-181£0	.6	25
45	Electrolyte Driven Highly Selective CO2 Electroreduction at Low Overpotentials. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10440-10447	1	23
44	Ru-doped, oxygen-vacancy-containing CeO2 nanorods toward N2 electroreduction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7229-7234		22
43	Electrocatalytic Reactions for Converting CO2 to Value-Added Products. Small Science, 2021, 1, 2100043		21
42	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> , <b>2017</b> , 5, 7416-7422		20
41	Lasing from lead halide perovskite semiconductor microcavity system. <i>Nanoscale</i> , <b>2018</b> , 10, 10371-103767.7	,	20
40	Tuning Active Sites of MXene for Efficient Electrocatalytic N2 Fixation. <i>CheM</i> , <b>2019</b> , 5, 15-17	.2	19
39	Hierarchically tubular nitrogen-doped carbon structures for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13634-13638		18
38	Achieving Efficient CO Electrochemical Reduction on Tunable In(OH)-Coupled CuO-Derived Hybrid Catalysts. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2019</b> , 11, 22346-22351		17
37	Electrochemical N fixation by Cu-modified iron oxide dendrites. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 552, 312-318	•	16
36	Fast cooling induced grain-boundary-rich copper oxide for electrocatalytic carbon dioxide reduction to ethanol. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 570, 375-381	,	16
35	Automated in Vivo Nanosensing of Breath-Borne Protein Biomarkers. <i>Nano Letters</i> , <b>2018</b> , 18, 4716-4726 <sub>11</sub> .	.5	16
34	Colloidal nanocrystals for electrochemical reduction reactions. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 485, 308-327		14
33	In situ formed Co clusters in selective oxidation of EC H bond: Stabilizing effect from reactants.  **Molecular Catalysis**, <b>2019</b> , 470, 1-7		12
32	Transition metal oxide hierarchical nanotubes for energy applications. <i>Nanotechnology</i> , <b>2016</b> , 27, 02LT03.4		12
31	One-dimensional Nanomaterial Electrocatalysts for CO Fixation. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 4-5	;	10
30	Dual-Atomic Cu Sites for Electrocatalytic CO Reduction to C2+ Products1729-1737		10

29	Hydrophobically made Ag nanoclusters with enhanced performance for CO2 aqueous electroreduction. <i>Journal of Power Sources</i> , <b>2020</b> , 476, 228705	8.9	10
28	Electrocatalytic Methane Oxidation Greatly Promoted by Chlorine Intermediates. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 17398-17403	16.4	8
27	Heterogeneous Electrocatalysts for CO2 Reduction. ACS Applied Energy Materials, 2021, 4, 1034-1044	6.1	8
26	Lithiation-Enabled High-Density Nitrogen Vacancies Electrocatalyze CO to C Products. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103150	24	8
25	Electron Localization and Lattice Strain Induced by Surface Lithium Doping Enable Ampere-Level Electrosynthesis of Formate from CO. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25741-2574	5 <sup>16.4</sup>	7
24	Chlorine-doped carbon for electrocatalytic nitrogen reduction. <i>Molecular Catalysis</i> , <b>2020</b> , 492, 111029	3.3	6
23	Electrochemical nitrogen fixation via bimetallic Sn-Ti sites on defective titanium oxide catalysts. Journal of Colloid and Interface Science, <b>2021</b> , 588, 242-247	9.3	6
22	Electrocatalytic Methane Oxidation to Ethanol via Rh/ZnO Nanosheets. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 13324-13330	3.8	6
21	Efficient carboxylation of styrene and carbon dioxide by single-atomic copper electrocatalyst. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 601, 378-384	9.3	6
20	Polarization Engineering of Covalent Triazine Frameworks for Highly Efficient Photosynthesis of Hydrogen Peroxide from Molecular Oxygen and Water <i>Advanced Materials</i> , <b>2022</b> , e2110266	24	6
19	Recent advances of metal nanoclusters for aerobic oxidation. <i>Materials Today Nano</i> , <b>2020</b> , 11, 100080	9.7	5
18	Promoting N electroreduction to ammonia by fluorine-terminating TiCT MXene. <i>Nano Convergence</i> , <b>2021</b> , 8, 14	9.2	5
17	Efficient CO Electroreduction to Ethanol by Cu Sn Catalyst Small Methods, 2022, 6, e2101334	12.8	5
16	Unconventional mesoporous single crystalline NiO by synergistically controlled evaporation and hydrolysis. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23840-23843	13	4
15	Hydroxy-Group-Enriched In 2 O 3 Facilitates CO 2 Electroreduction to Formate at Large Current Densities. <i>Advanced Materials Interfaces</i> ,2101956	4.6	4
14	Electrochemical Methane Conversion. <i>Small Structures</i> , <b>2021</b> , 2, 2100037	8.7	4
13	Defect-Assisted Electron Tunneling for Photoelectrochemical CO 2 Reduction to Ethanol at Low Overpotentials. <i>Advanced Energy Materials</i> ,2201134	21.8	4
12	Highly-Exposed Single-Interlayered Cu Edges Enable High-Rate CO 2 -to-CH 4 Electrosynthesis. <i>Advanced Energy Materials</i> ,2200195	21.8	3

## LIST OF PUBLICATIONS

Lithium Vacancy-Tuned [CuO] Sites for Selective CO Electroreduction to C Products.. Small, 2021, e21064B3 11 Unconventional morphologies of CoO nanocrystals via controlled oxidation of cobalt oleate 5.8 10 precursors. Chemical Communications, 2018, 54, 3867-3870 Precise tuning of heteroatom positions in polycyclic aromatic hydrocarbons for electrocatalytic 2 9 9.3 nitrogen fixation. Journal of Colloid and Interface Science, 2020, 580, 623-629 Electrocatalytic Methane Oxidation Greatly Promoted by Chlorine Intermediates. Angewandte 3.6 Chemie, **2021**, 133, 17538-17543 Atomic-Level Copper Sites for Selective CO2 Electroreduction to Hydrocarbon. ACS Sustainable 8.3 2 7 Chemistry and Engineering, Promoting electrocatalytic carbon monoxide reduction to ethylene on copper-polypyrrole 6 9.3 2 interface. Journal of Colloid and Interface Science, 2021, 600, 847-853 Multiplexed Electrical Detection of Single Viruses. Materials Research Society Symposia Proceedings, 5 1 2004, 828, 97 System Engineering Enhances Photoelectrochemical CO2 Reduction. Journal of Physical Chemistry C 3.8 , **2022**, 126, 1689-1700 Electrochemical conversion of C1 molecules to sustainable fuels in solid oxide electrolysis cells. 11.3 1 Chinese Journal of Catalysis, 2022, 43, 92-103 Electron Localization and Lattice Strain Induced by Surface Lithium Doping Enable Ampere-Level 3.6 Electrosynthesis of Formate from CO2. Angewandte Chemie, 2021, 133, 25945

Parallel and Complementary Detection of Proteins by p-type and n-type Silicon Nanowire Transistor Arrays. *Materials Research Society Symposia Proceedings*, **2005**, 900, 1