Zhigang Geng

List of Publications by Year
in descending order

50 papers	4,503 citations	196777 29 h-index	223390 49 g-index
51 all docs	51 docs citations	51 times ranked	6945 citing authors

#	Article	IF	Citations
1	Photoâ€•and Electrocatalytic CO₂ Reduction Based on Stable Leadâ€Free Perovskite Cs₂PdBr₆. Energy and Environmental Materials, 2023, 6, .	7.3	4
2	Molecular Stabilization of Subâ€Nanometer Cu Clusters for Selective CO₂ Electromethanation. ChemSusChem, 2022, 15, .	3.6	11
3	Promoting N2 electroreduction into NH3 over porous carbon by introducing oxygen-containing groups. Chemical Engineering Journal, 2022, 434, 134636.	6.6	9
4	Facet-dependent electrooxidation of propylene into propylene oxide over Ag3PO4 crystals. Nature Communications, 2022, 13, 932.	5.8	38
5	Adjusting Local CO Confinement in Porous-Shell Ag@Cu Catalysts for Enhancing Câ€“C Coupling toward CO₂ Eletroreduction. Nano Letters, 2022, 22, 2554-2560.	4.5	43
6	Understanding the Effect of *CO Coverage on Câ€“C Coupling toward CO₂ Electroreduction. Nano Letters, 2022, 22, 3801-3808.	4.5	44
7	Electrodeposited highly-oriented bismuth microparticles for efficient CO2 electroreduction into formate. Nano Research, 2022, 15, 10078-10083.	5.8	19
8	Tuning the Electronic and Steric Interaction at the Atomic Interface for Enhanced Oxygen Evolution. Journal of the American Chemical Society, 2022, 144, 9271-9279.	6.6	76
9	Progresses on carbon dioxide electroreduction into methane. Chinese Journal of Catalysis, 2022, 43, 1634-1641.	6.9	13
10	Synthesis of Tunable Syngas on Cobaltâ€Based Catalysts towards Carbon Dioxide Reduction. ChemNanoMat, 2021, 7, 2-6.	1.5	6
11	A phosphate-derived bismuth catalyst with abundant grain boundaries for efficient reduction of CO₂ to HCOOH. Chemical Communications, 2021, 57, 1502-1505.	2.2	32
12	Enhance the activity of multi-carbon products for Cu via P doping towards CO2 reduction. Science China Chemistry, 2021, 64, 1096-1102.	4.2	22
13	Inductive effect as a universal concept to design efficient catalysts for CO₂electrochemical reduction: electronegativity difference makes a difference. Journal of Materials Chemistry A, 2021, 9, 4626-4647.	5.2	12
14	Doping regulation in transition metal compounds for electrocatalysis. Chemical Society Reviews, 2021, 50, 9817-9844.	18.7	245
15	Bias-Adaptable CO₂-to-CO Conversion via Tuning the Binding of Competing Intermediates. Nano Letters, 2021, 21, 8924-8932.	4.5	13
16	Electronic Tuning of SnS₂ Nanosheets by Hydrogen Incorporation for Efficient CO₂ Electroreduction. Nano Letters, 2021, 21, 7789-7795.	4.5	35
17	Co-based molecular catalysts for efficient CO2 reduction via regulating spin states. Applied Catalysis B: Environmental, 2021, 290, 120067.	10.8	35
18	Atomic-level insights into strain effect on p-nitrophenol reduction via Au@Pd coreâ€“shell nanocubes as an ideal platform. Journal of Catalysis, 2020, 381, 427-433.	3.1	30

#	Article	IF	Citations
19	Enhanced N₂ Electroreduction over LaCoO₃ by Introducing Oxygen Vacancies. ACS Catalysis, 2020, 10, 1077-1085.	5.5	98
20	Coordinate activation in heterogeneous carbon dioxide reduction on Co-based molecular catalysts. Applied Catalysis B: Environmental, 2020, 268, 118452.	10.8	35
21	Tuning the coordination number of Fe single atoms for the efficient reduction of CO₂. Green Chemistry, 2020, 22, 7529-7536.	4.6	49
22	<i>In-Situ</i> Surface Reconstruction of InN Nanosheets for Efficient CO₂ Electroreduction into Formate. Nano Letters, 2020, 20, 8229-8235.	4.5	55
23	Molecular Modification of Single Cobalt Sites Boosts the Catalytic Activity of CO 2 Electroreduction into CO. ChemPhysChem, 2020, 21, 2051-2055.	1.0	8
24	Boost Selectivity of HCOO^{âˆ’}Using Anchored Bi Single Atoms towards CO₂Reduction. ChemSusChem, 2020, 13, 6307-6311.	3.6	35
25	Single Atoms of Iron on MoS₂ Nanosheets for N₂ Electroreduction into Ammonia. Angewandte Chemie, 2020, 132, 20591-20596.	1.6	17
26	Single Atoms of Iron on MoS₂ Nanosheets for N₂ Electroreduction into Ammonia. Angewandte Chemie - International Edition, 2020, 59, 20411-20416.	7.2	136
27	A versatile biocatalytic nano-platform based on Fe3O4-filled and zirconia shrunk holey carbon nanotubes. Chemical Engineering Journal, 2020, 402, 125737.	6.6	17
28	N₂ Electroreduction: A Highly Efficient Metalâ€Free Electrocatalyst of Fâ€Doped Porous Carbon toward N₂ Electroreduction (Adv. Mater. 24/2020). Advanced Materials, 2020, 32, 2070186.	11.1	3
29	Atomic-Level Construction of Tensile-Strained PdFe Alloy Surface toward Highly Efficient Oxygen Reduction Electrocatalysis. Nano Letters, 2020, 20, 1403-1409.	4.5	89
30	A Highly Efficient Metalâ€Free Electrocatalyst of Fâ€Doped Porous Carbon toward N₂ Electroreduction. Advanced Materials, 2020, 32, e1907690.	11.1	105
31	Bi@Sn Coreâ€"Shell Structure with Compressive Strain Boosts the Electroreduction of CO₂ into Formic Acid. Advanced Science, 2020, 7, 1902989.	5.6	125
32	Engineering electronic structures of nanomaterials towardÂcarbon dioxide electroreduction. Current Opinion in Electrochemistry, 2019, 17, 7-15.	2.5	14
33	Regulating the coordination environment of Co single atoms for achieving efficient electrocatalytic activity in CO2 reduction. Applied Catalysis B: Environmental, 2019, 240, 234-240.	10.8	224
34	Introduction of carbonâ€"boron atomic groups as an efficient strategy to boost formic acid production toward CO₂electrochemical reduction. Chemical Communications, 2018, 54, 3367-3370.	2.2	24
35	Oxygen Vacancies in ZnO Nanosheets Enhance CO₂ Electrochemical Reduction to CO. Angewandte Chemie, 2018, 130, 6162-6167.	1.6	122
36	Oxygen Vacancies in ZnO Nanosheets Enhance CO₂ Electrochemical Reduction to CO. Angewandte Chemie - International Edition, 2018, 57, 6054-6059.	7.2	564

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37	N₂ Electrochemical Reduction: Achieving a Recordâ€High Yield Rate of 120.9 Î¼gNH3â€‰â€‰mgcat.â^'1â€‰â€‰hâ^'1 for N₂ Electrochemical Reduction over Ru Singleâ€Atom Catalysts (Adv.) T	11.1	5
38	Pt Single Atoms Embedded in the Surface of Ni Nanocrystals as Highly Active Catalysts for Selective Hydrogenation of Nitro Compounds. Nano Letters, 2018, 18, 3785-3791.	4.5	127
39	Achieving a Recordâ€High Yield Rate of 120.9 for N₂ Electrochemical Reduction over Ru Singleâ€Atom Catalysts. Advanced Materials, 2018, 30, e1803498.	11.1	736
40	Effects of surface ligands on the uptake and transport of gold nanoparticles in rice and tomato. Journal of Hazardous Materials, 2016, 314, 188-196.	6.5	73
41	Enhanced removal of trace Cr(VI) from neutral and alkaline aqueous solution by FeCo bimetallic nanoparticles. Journal of Colloid and Interface Science, 2016, 472, 8-15.	5.0	51
42	The influence of biochar type on long-term stabilization for Cd and Cu in contaminated paddy soils. Journal of Hazardous Materials, 2016, 304, 40-48.	6.5	195
43	Bringing light into the dark triplet space of molecular systems. Physical Chemistry Chemical Physics, 2015, 17, 13129-13136.	1.3	8
44	A fluorescent chitosan hydrogel detection platform for the sensitive and selective determination of trace mercury(<scp>ii</scp>) in water. Journal of Materials Chemistry A, 2015, 3, 19455-19460.	5.2	66
45	The Realistic Domain Structure of As-Synthesized Graphene Oxide from Ultrafast Spectroscopy. Journal of the American Chemical Society, 2013, 135, 12468-12474.	6.6	64
46	A Green and Mild Approach of Synthesis of Highly-Conductive Graphene Film by Zn Reduction of Exfoliated Graphite Oxide. Chinese Journal of Chemical Physics, 2012, 25, 494-500.	0.6	14
47	Ternary Grapheneâ€"TiO₂â€"Fe₃O₄ Nanocomposite as a Recollectable Photocatalyst with Enhanced Durability. European Journal of Inorganic Chemistry, 2012, 2012, 4439-4444.	1.0	83
48	Highly efficient dye adsorption and removal: a functional hybrid of reduced graphene oxideâ€"Fe3O4 nanoparticles as an easily regenerative adsorbent. Journal of Materials Chemistry, 2012, 22, 3527.	6.7	369
49	Dramatically Enhanced Photoresponse of Reduced Graphene Oxide with Linker-Free Anchored CdSe Nanoparticles. ACS Nano, 2010, 4, 3033-3038.	7.3	258
50	Lysineâ€Functionalized SnO ₂ for Efficient CO ₂ Electroreduction into Formate. ChemNanoMat, 0, , .	1.5	2