

Kong-Gang Qu

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

5,170
citations

147726

31
h-index

88593

70
g-index

80
all docs

80
docs citations

80
times ranked

7352
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable NiPt@Mo ₂ C active site pairs enable boosted water splitting and direct methanol fuel cell. <i>Green Energy and Environment</i> , 2023, 8, 559-566.	4.7	10
2	Natural DNA-derived highly-graphitic N, P, S-tridoped carbon nanosheets for multiple electrocatalytic applications. <i>Chemical Engineering Journal</i> , 2022, 429, 132102.	6.6	22
3	Natural DNA-assisted ultrafine FeP embedded in N, P-codoped carbons for efficient oxygen reduction, hydrogen evolution and rechargeable zinc-air battery. <i>Carbon</i> , 2022, 186, 171-179.	5.4	28
4	Mutual promotion effect of Ni and Mo ₂ C encapsulated in N-doped porous carbon on bifunctional overall urea oxidation catalysis. <i>Journal of Catalysis</i> , 2022, 405, 606-613.	3.1	20
5	New crystalline 1D/2D/3D indium selenides directed by piperidine and auxiliary solvents. <i>Dalton Transactions</i> , 2022, 51, 3248-3253.	1.6	0
6	Ir nanoclusters/porous N-doped carbon as a bifunctional electrocatalyst for hydrogen evolution and hydrazine oxidation reactions. <i>Chemical Communications</i> , 2022, 58, 2347-2350.	2.2	22
7	Zeolitic Imidazolate Framework 67-Derived Ce-Doped CoP@N-Doped Carbon Hollow Polyhedron as High-Performance Anodes for Lithium-Ion Batteries. <i>Crystals</i> , 2022, 12, 533.	1.0	7
8	An organic-inorganic hybrid strategy to fabricate highly dispersed Fe ₂ C in porous N-Doped carbon for oxygen reduction reaction and rechargeable zinc-air battery. <i>Carbon</i> , 2022, 195, 123-130.	5.4	3
9	Volumetric, Viscometric, and Refractive Index Studies of Drug Nicotinic Acid in Aqueous D-Xylose/L-Arabinose Solutions from 293.15 to 313.15 K: Insights into Solute-Solute and Solute-Solvent Interactions. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1089-1100.	1.0	3
10	Robust Ru-N metal-support interaction to promote self-powered H ₂ production assisted by hydrazine oxidation. <i>Nano Energy</i> , 2022, 100, 107467.	8.2	35
11	Stabilizing phosphotungstic acid in Nafion membrane via targeted silica fixation for high-temperature fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4301-4308.	3.8	15
12	Graphene quantum dot reinforced hyperbranched polyamide proton exchange membrane for direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9782-9789.	3.8	25
13	Nitrogen dopants in nickel nanoparticles embedded carbon nanotubes promote overall urea oxidation. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119436.	10.8	151
14	The synthesis and multicolor luminescence of lanthanide doped Vernier lutetium oxyfluorides. <i>New Journal of Chemistry</i> , 2021, 45, 13415-13420.	1.4	1
15	Controlled synthesis of ultrasmall RuP ₂ particles on N,P-codoped carbon as superior pH-wide electrocatalyst for hydrogen evolution. <i>Rare Metals</i> , 2021, 40, 1040-1047.	3.6	59
16	3D self-supported porous vanadium-doped nickel nitride nanosheet arrays as efficient bifunctional electrocatalysts for urea electrolysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4159-4166.	5.2	89
17	The template synthesis of ultrathin metallic Ir nanosheets as a robust electrocatalyst for acidic water splitting. <i>Chemical Communications</i> , 2021, 57, 8620-8623.	2.2	14
18	Natural DNA-assisted RuP ₂ on highly graphitic N,P-codoped carbon for pH-wide hydrogen evolution. <i>Chemical Communications</i> , 2021, 57, 7284-7287.	2.2	15

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19	Highly dispersed cobalt metaphosphate nanoparticles embedded in tri-doped carbon as a pH-Wide electrocatalyst for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6513-6521.	3.8	8
20	Activation of rhodium selenides for boosted hydrogen evolution reaction via heterostructure construction. <i>Materials Today Physics</i> , 2021, 18, 100401.	2.9	18
21	KOH Chemical-Activated Porous Carbon Sponges for Monolithic Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 6768-6776.	2.5	36
22	Sulfur vacancies in ultrathin cobalt sulfide nanoflowers enable boosted electrocatalytic activity of nitrogen reduction reaction. <i>Chemical Engineering Journal</i> , 2021, 415, 129018.	6.6	63
23	N, P doped carbon nanotubes confined WN-Ni Mott-Schottky heterogeneous electrocatalyst for water splitting and rechargeable zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120511.	10.8	77
24	Porogen-in-Resin-Induced Fe, N-Doped Interconnected Porous Carbon Sheets as Cathode Catalysts for Proton Exchange Membrane Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48962-48970.	4.0	12
25	Electrospinning Synthesis of Carbon-Supported Pt ₃ Mn Intermetallic Nanocrystals and Electrocatalytic Performance towards Oxygen Reduction Reaction. <i>Nanomaterials</i> , 2020, 10, 1893.	1.9	4
26	Electronically delocalized Ir enables efficient and stable acidic water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20168-20174.	5.2	25
27	Electronically interacted Co ₃ O ₄ /WS ₂ as superior oxygen electrode for rechargeable zinc-air batteries. <i>Chemical Communications</i> , 2020, 56, 15193-15196.	2.2	12
28	Iridium nanorods as a robust and stable bifunctional electrocatalyst for pH-universal water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119394.	10.8	90
29	Regulating Capacitive Performance of Monolithic Carbon Sponges by Balancing Heteroatom Content, Surface Area and Graphitization Degree. <i>ChemNanoMat</i> , 2020, 6, 1507-1512.	1.5	7
30	Prediction of a Stable Organic Metal-Free Porous Material as a Catalyst for Water-Splitting. <i>Catalysts</i> , 2020, 10, 836.	1.6	13
31	New insights into O and OH adsorption on the Pt-Co alloy surface: effects of Pt/Co ratios and structures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21124-21130.	1.3	4
32	N-Rich hetero-porous defective carbon induced by trace B-doping enables efficient oxygen reduction. <i>Chemical Communications</i> , 2020, 56, 12214-12217.	2.2	7
33	Synergetic FeCo nanorods embedded in nitrogen-doped carbon nanotubes with abundant metal-NCNT heterointerfaces as efficient air electrocatalysts for rechargeable zinc-air batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5188-5194.	2.5	7
34	First-principles study of heterostructures of MXene and nitrogen-doped graphene as anode materials for Li-ion batteries. <i>Surfaces and Interfaces</i> , 2020, 21, 100788.	1.5	9
35	Robust hydrogen evolution reaction activity catalyzed by ultrasmall Rh ₂ P nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12378-12384.	5.2	49
36	A simple strategy for tridoped porous carbon nanosheet as superior electrocatalyst for bifunctional oxygen reduction and hydrogen evolution reactions. <i>Carbon</i> , 2020, 162, 586-594.	5.4	55

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37	Identification of functionality of heteroatoms in boron, nitrogen and fluorine ternary-doped carbon as a robust electrocatalyst for nitrogen reduction reaction powered by rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8430-8439.	5.2	53
38	Energy-efficient hydrogen production over a high-performance bifunctional NiMo-based nanorods electrode. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 48-54.	5.0	37
39	Strain induced rich planar defects in heterogeneous WS_2/WO_2 enable efficient nitrogen fixation at low overpotential. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12996-13003.	5.2	45
40	Non-destructive fabrication of Nafion/silica composite membrane via swelling-filling modification strategy for high temperature and low humidity PEM fuel cell. <i>Renewable Energy</i> , 2020, 153, 935-939.	4.3	48
41	Boosting the acidic electrocatalytic nitrogen reduction performance of MoS_2 by strain engineering. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10426-10432.	5.2	59
42	Polyaniline Nanofiber Wrapped Fabric for High Performance Flexible Pressure Sensors. <i>Polymers</i> , 2019, 11, 1120.	2.0	39
43	A robust electrocatalytic activity toward the hydrogen evolution reaction from W/W_2C heterostructured nanoparticles coated with a N,P dual-doped carbon layer. <i>Chemical Communications</i> , 2019, 55, 9665-9668.	2.2	18
44	Nitrogen Atoms as Stabilizers and Promoters for Ru-Cluster-Catalyzed Alkaline Water Splitting. <i>ChemCatChem</i> , 2019, 11, 4327-4333.	1.8	21
45	Robust hydrogen evolution reaction catalysis by ultrasmall amorphous ruthenium phosphide nanoparticles. <i>Chemical Communications</i> , 2019, 55, 7623-7626.	2.2	26
46	Confined growth of Co-Pi co-catalyst by organic semiconductor polymer for boosting the photoelectrochemical performance of $BiVO_4$. <i>New Journal of Chemistry</i> , 2019, 43, 8160-8167.	1.4	9
47	In Situ Decorating Coordinatively Unsaturated Fe Sites for Boosting Water Oxidation Performance of TiO_2 Photoanode. <i>Energy Technology</i> , 2019, 7, 1801128.	1.8	20
48	Targeted filling of silica in Nafion by a modified <i>in situ</i> sol-gel method for enhanced fuel cell performance at elevated temperatures and low humidity. <i>Chemical Communications</i> , 2019, 55, 5499-5502.	2.2	25
49	One Simple Strategy towards Nitrogen and Oxygen Codoped Carbon Nanotube for Efficient Electrocatalytic Oxygen Reduction and Evolution. <i>Catalysts</i> , 2019, 9, 159.	1.6	9
50	Tungsten Carbide Hollow Microspheres with Robust and Stable Electrocatalytic Activity toward Hydrogen Evolution Reaction. <i>ACS Omega</i> , 2019, 4, 4185-4191.	1.6	24
51	$Fe@Fe_2P$ Core-Shell Nanorods Encapsulated in Nitrogen Doped Carbon Nanotubes as Robust and Stable Electrocatalyst Toward Hydrogen Evolution. <i>ChemElectroChem</i> , 2019, 6, 1413-1418.	1.7	23
52	Decorated PtRu Electrocatalyst for Concentrated Direct Methanol Fuel Cells. <i>ChemCatChem</i> , 2019, 11, 1238-1243.	1.8	16
53	In-situ approach to fabricate BiOI photocathode with oxygen vacancies: Understanding the N_2 reduced behavior in photoelectrochemical system. <i>Chemical Engineering Journal</i> , 2019, 362, 349-356.	6.6	121
54	Polydopamine-Derived, In Situ N-Doped 3D Mesoporous Carbons for Highly Efficient Oxygen Reduction. <i>ChemNanoMat</i> , 2018, 4, 417-422.	1.5	19

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55	Methanol Oxidation Reaction Performance on Graphene-Supported PtAg Alloy Nanocatalyst: Contrastive Study of Electronic and Geometric Effects Induced from Ag Doping. <i>ChemistrySelect</i> , 2018, 3, 3615-3620.	0.7	6
56	Constructing Successive Active Sites for Metal-Free Electrolyst with Boosted Electrocatalytic Activities Toward Hydrogen Evolution and Oxygen Reduction Reactions. <i>ChemCatChem</i> , 2018, 10, 5194-5200.	1.8	30
57	Fabrication of Stable and Well-Connected Proton Path in Catalyst Layer for High Temperature Polymer Electrolyte Fuel Cells. <i>ChemCatChem</i> , 2018, 10, 5314-5322.	1.8	11
58	Polydopamine-inspired nanomaterials for energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21827-21846.	5.2	103
59	Carbon Supported Multi-Branch Nitrogen-Containing Polymers as Oxygen Reduction Catalysts. <i>Catalysts</i> , 2018, 8, 245.	1.6	14
60	One-step Synthesis of MnO/Ni Nanoparticles Anchored on Porous Nitrogen-doped Carbons from Melamine Foam and Electrocatalytic Study towards Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2017, 2, 4234-4240.	0.7	12
61	Promotion of Electrocatalytic Hydrogen Evolution Reaction on Nitrogen-Doped Carbon Nanosheets with Secondary Heteroatoms. <i>ACS Nano</i> , 2017, 11, 7293-7300.	7.3	357
62	Polydopamine-Inspired, Dual Heteroatom-Doped Carbon Nanotubes for Highly Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1602068.	10.2	319
63	Lead-free and amorphous organic-inorganic hybrid materials for photovoltaic applications: mesoscopic CH ₃ NH ₃ MnI ₃ /TiO ₂ heterojunction. <i>RSC Advances</i> , 2017, 7, 37419-37425.	1.7	24
64	Electrocarboxylation of Dichlorobenzenes on a Silver Electrode in DMF. <i>Catalysts</i> , 2017, 7, 274.	1.6	14
65	Layered and Pb-Free Organic-Inorganic Perovskite Materials for Ultraviolet Photoresponse: (010)-Oriented (CH ₃ NH ₃) ₂ MnCl ₄ Thin Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28187-28193.	4.0	54
66	Graphene oxide-polydopamine derived N, S-codoped carbon nanosheets as superior bifunctional electrocatalysts for oxygen reduction and evolution. <i>Nano Energy</i> , 2016, 19, 373-381.	8.2	597
67	Polydopamine-graphene oxide derived mesoporous carbon nanosheets for enhanced oxygen reduction. <i>Nanoscale</i> , 2015, 7, 12598-12605.	2.8	104
68	Nanocomposite Incorporating V ₂ O ₅ Nanowires and Gold Nanoparticles for Mimicking an Enzyme Cascade Reaction and Its Application in the Detection of Biomolecules. <i>Chemistry - A European Journal</i> , 2014, 20, 7501-7506.	1.7	95
69	Enzyme-directed pH-responsive exfoliation and dispersion of graphene and its decoration by gold nanoparticles for use as a hybrid catalyst. <i>Nano Research</i> , 2013, 6, 693-702.	5.8	15
70	Carbon Dots Prepared by Hydrothermal Treatment of Dopamine as an Effective Fluorescent Sensing Platform for the Label-Free Detection of Iron(III) Ions and Dopamine. <i>Chemistry - A European Journal</i> , 2013, 19, 7243-7249.	1.7	632
71	Natural DNA-Modified Graphene/Pd Nanoparticles as Highly Active Catalyst for Formic Acid Electro-Oxidation and for the Suzuki Reaction. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5001-5009.	4.0	128
72	Human telomeric G-quadruplex formation and highly selective fluorescence detection of toxic strontium ions. <i>Molecular BioSystems</i> , 2012, 8, 779-782.	2.9	36

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73	pH-responsive, DNA-directed reversible assembly of graphene oxide. <i>Molecular BioSystems</i> , 2011, 7, 2681.	2.9	20
74	Chiral detection using reusable fluorescent amylose-functionalized graphene. <i>Chemical Science</i> , 2011, 2, 2050.	3.7	67
75	Microwave assisted one-step green synthesis of cell-permeable multicolor photoluminescent carbon dots without surface passivation reagents. <i>Journal of Materials Chemistry</i> , 2011, 21, 2445.	6.7	608
76	A Universal, Label-Free, and Sensitive Optical Enzyme-Sensing System for Nuclease and Methyltransferase Activity Based on Light Scattering of Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2011, 21, 583-590.	7.8	37
77	Ultrasensitive and Selective Detection of a Prognostic Indicator in Early-Stage Cancer Using Graphene Oxide and Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2010, 20, 3967-3971.	7.8	130
78	Ultrasensitive and Selective Detection of a Prognostic Indicator in Early-Stage Cancer Using Graphene Oxide and Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2010, 20, 3966-3966.	7.8	94
79	Luminescent Rare-Earth Complex Covalently Modified Single-Walled Carbon Nanotubes: Design, Synthesis, and DNA Sequence-Dependent Red Luminescence Enhancement. <i>Chemistry of Materials</i> , 2010, 22, 5718-5724.	3.2	31