

# Qike Jiang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6870477/publications.pdf>

Version: 2024-02-01

75  
papers

4,036  
citations

147726

31  
h-index

123376

61  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of the High Performance in GeTe-Based Thermoelectric Materials upon Bi <sub>2</sub> Te <sub>3</sub> Doping. <i>Journal of the American Chemical Society</i> , 2014, 136, 11412-11419.	6.6	319
2	A 3D Covalent Organic Framework with Exceptionally High Iodine Capture Capability. <i>Chemistry - A European Journal</i> , 2018, 24, 585-589.	1.7	247
3	Enhancing the stability of cobalt spinel oxide towards sustainable oxygen evolution in acid. <i>Nature Catalysis</i> , 2022, 5, 109-118.	16.1	236
4	Exceptional Electrochemical HER Performance with Enhanced Electron Transfer between Ru Nanoparticles and Single Atoms Dispersed on a Carbon Substrate. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16044-16050.	7.2	200
5	Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. <i>Nature Communications</i> , 2020, 11, 1263.	5.8	198
6	Unraveling the High-Activity Origin of Single-Atom Iron Catalysts for Organic Pollutant Oxidation via Peroxymonosulfate Activation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8318-8328.	4.6	198
7	Potential-Driven Restructuring of Cu Single Atoms to Nanoparticles for Boosting the Electrochemical Reduction of Nitrate to Ammonia. <i>Journal of the American Chemical Society</i> , 2022, 144, 12062-12071.	6.6	192
8	Stable Potential Windows for Long-Term Electrocatalysis by Manganese Oxides Under Acidic Conditions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5054-5058.	7.2	182
9	Synergistic Effect of Atomically Dispersed Ni-Zn Pair Sites for Enhanced CO <sub>2</sub> Electroreduction. <i>Advanced Materials</i> , 2021, 33, e2102212.	11.1	155
10	Dynamics of Bound Exciton Complexes in CdS Nanobelts. <i>ACS Nano</i> , 2011, 5, 3660-3669.	7.3	132
11	Flexible n-type thermoelectric films based on Cu-doped Bi <sub>2</sub> Se <sub>3</sub> nanoplate and Polyvinylidene Fluoride composite with decoupled Seebeck coefficient and electrical conductivity. <i>Nano Energy</i> , 2015, 18, 306-314.	8.2	119
12	The origin of hematite nanowire growth during the thermal oxidation of iron. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 327-336.	1.7	115
13	Layered Bi <sub>2</sub> Se <sub>3</sub> Nanoplate/Polyvinylidene Fluoride Composite Based n-type Thermoelectric Fabrics. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 7054-7059.	4.0	108
14	Origin of the Activity of Co-N-C Catalysts for Chemoselective Hydrogenation of Nitroarenes. <i>ACS Catalysis</i> , 2021, 11, 3026-3039.	5.5	105
15	A Versatile Approach to Boost Oxygen Reduction of Fe <sub>4</sub> Sites by Controllably Incorporating Sulfur Functionality. <i>Advanced Functional Materials</i> , 2021, 31, 2100833.	7.8	85
16	Fe atoms anchored on defective nitrogen doped hollow carbon spheres as efficient electrocatalysts for oxygen reduction reaction. <i>Nano Research</i> , 2021, 14, 1069-1077.	5.8	71
17	Dramatically enhanced thermoelectric performance of MoS <sub>2</sub> by introducing MoO <sub>2</sub> nano-inclusions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2004-2011.	5.2	66
18	Photo-thermo semi-hydrogenation of acetylene on Pd <sub>1</sub> /TiO <sub>2</sub> single-atom catalyst. <i>Nature Communications</i> , 2022, 13, 2648.	5.8	61

#	ARTICLE	IF	CITATIONS
19	Atomic Insight into the Local Structure and Microenvironment of Isolated Co-Motifs in MFI Zeolite Frameworks for Propane Dehydrogenation. <i>Journal of the American Chemical Society</i> , 2022, 144, 12127-12137.	6.6	60
20	Mesoporous F-doped ZnO prism arrays with significantly enhanced photovoltaic performance for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011, 196, 10518-10525.	4.0	54
21	2D Chalcogenide Nanoplate Assemblies for Thermoelectric Applications. <i>Advanced Materials</i> , 2017, 29, 1700070.	11.1	54
22	Creating Edge Sites within the Basal Plane of a MoS <sub>2</sub> Catalyst for Substantially Enhanced Hydrodeoxygenation Activity. <i>ACS Catalysis</i> , 2022, 12, 8-17.	5.5	50
23	Wavy PtCu alloy nanowire networks with abundant surface defects enhanced oxygen reduction reaction. <i>Nano Research</i> , 2019, 12, 2766-2773.	5.8	48
24	High-performance bifunctional oxygen electrocatalyst derived from iron and nickel substituted perfluorosulfonic acid/polytetrafluoroethylene copolymer. <i>Nano Energy</i> , 2016, 30, 801-809.	8.2	46
25	A ZnO/ZnMgO Multiple-Quantum-Well Ultraviolet Random Laser Diode. <i>IEEE Electron Device Letters</i> , 2011, 32, 54-56.	2.2	44
26	Stable Potential Windows for Long-Term Electrocatalysis by Manganese Oxides Under Acidic Conditions. <i>Angewandte Chemie</i> , 2019, 131, 5108-5112.	1.6	44
27	Stabilizing the isolated Pt sites on PtGa/Al <sub>2</sub> O <sub>3</sub> catalyst via silica coating layers for propane dehydrogenation at low temperature. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120731.	10.8	43
28	Enhancement of Mass Transport for Oxygen Reduction Reaction Using Petal-Like Porous Fe-NC Nanosheet. <i>Small</i> , 2021, 17, e2006178.	5.2	42
29	Facile Fabrication of SnO <sub>2</sub> Nanorod Arrays Films as Electron Transporting Layer for Perovskite Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800133.	3.1	41
30	Enhanced Catalytic Performance through In Situ Encapsulation of Ultrafine Ru Clusters within a High-Aluminum Zeolite. <i>ACS Catalysis</i> , 2022, 12, 1847-1856.	5.5	37
31	Effect of the Configuration of Copper Oxide-Ceria Catalysts in NO Reduction with CO: Superior Performance of a Copper-Ceria Solid Solution. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 61078-61087.	4.0	37
32	Self-Assembled Heterostructures: Selective Growth of Metallic Nanoparticles on V <sub>2</sub> -VI <sub>3</sub> Nanoplates. <i>Advanced Materials</i> , 2017, 29, 1702968.	11.1	34
33	Exceptional Electrochemical HER Performance with Enhanced Electron Transfer between Ru Nanoparticles and Single Atoms Dispersed on a Carbon Substrate. <i>Angewandte Chemie</i> , 2021, 133, 16180-16186.	1.6	31
34	High performance perovskite solar cells using TiO <sub>2</sub> nanospindles as ultrathin mesoporous layer. <i>Journal of Energy Chemistry</i> , 2018, 27, 951-956.	7.1	29
35	Ultraviolet/orange bicolor electroluminescence from an n-ZnO/n-GaN isotype heterojunction light emitting diode. <i>Applied Physics Letters</i> , 2011, 99, 263502.	1.5	28
36	Pd single-atom catalysts derived from strong metal-support interaction for selective hydrogenation of acetylene. <i>Nano Research</i> , 2022, 15, 10037-10043.	5.8	28

#	ARTICLE	IF	CITATIONS
37	Promoting oxygen evolution reaction by RuO <sub>2</sub> nanoparticles in solid oxide CO <sub>2</sub> electrolyzer. Energy Storage Materials, 2018, 13, 207-214.	9.5	27
38	Mesoporous non-noble metal electrocatalyst derived from ZIF-67 and cobalt porphyrin for the oxygen reduction in alkaline solution. Journal of Electroanalytical Chemistry, 2018, 825, 65-72.	1.9	27
39	Modulation of Mo-Fe-C Sites Over Mesoscale Diffusion-Enhanced Hollow Sub-Micro Reactors Toward Boosted Electrochemical Water Oxidation. Advanced Functional Materials, 2022, 32, .	7.8	26
40	Steering the reaction pathway of syngas-to-light olefins with coordination unsaturated sites of ZnGaOx spinel. Nature Communications, 2022, 13, 2742.	5.8	24
41	Efficient Optical Orientation and Slow Spin Relaxation in Lead-Free CsSnBr <sub>3</sub> Perovskite Nanocrystals. ACS Energy Letters, 2021, 6, 1670-1676.	8.8	23
42	Synergizing Surface Hydride Species and Ru Clusters on Sm <sub>2</sub> O <sub>3</sub> for Efficient Ammonia Synthesis. ACS Catalysis, 2022, 12, 2178-2190.	5.5	23
43	The growth of hematite nanobelts and nanowires tune the shape via oxygen gas pressure. Journal of Materials Research, 2012, 27, 1014-1021.	1.2	22
44	Confined-space synthesis of hierarchical MgAPO-11 molecular sieves with good hydroisomerization performance. Microporous and Mesoporous Materials, 2018, 262, 182-190.	2.2	22
45	Iron stabilized 1/3 A-site deficient La-Ti-O perovskite cathodes for efficient CO <sub>2</sub> electroreduction. Journal of Materials Chemistry A, 2020, 8, 21053-21061.	5.2	22
46	Ultra-High Fluorine Enhanced Homogeneous Nucleation of Lithium Metal on Stepped Carbon Nanosheets with Abundant Edge Sites. Advanced Energy Materials, 2022, 12, .	10.2	22
47	Engineering Sensitized Photon Upconversion Efficiency via Nanocrystal Wavefunction and Molecular Geometry. Angewandte Chemie - International Edition, 2020, 59, 17726-17731.	7.2	20
48	Synthesis and characterization of anatase TiO <sub>2</sub> nanosheet arrays on FTO substrate. Journal of Energy Chemistry, 2015, 24, 626-631.	7.1	19
49	Synthesis of Ag/PANI@MnO <sub>2</sub> core-shell nanowires and their capacitance behavior. RSC Advances, 2016, 6, 17415-17422.	1.7	18
50	Bi <sub>2</sub> Te <sub>3</sub> Plates with Single Nanopore: The Formation of Surface Defects and Self-Repair Growth. Chemistry of Materials, 2018, 30, 1965-1970.	3.2	16
51	The bead-like Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /NC nanofibers based on the nanocellulose from waste reed for long-life Li-ion batteries. Carbohydrate Polymers, 2020, 237, 116134.	5.1	16
52	High Performance of Single-Atom Catalyst Pd <sub>1</sub> /MgO for Semi-Hydrogenation of Acetylene to Ethylene in Excess Ethylene. ChemNanoMat, 2021, 7, 526-529.	1.5	14
53	Fe-N-C with Intensified Exposure of Active Sites for Highly Efficient and Stable Direct Methanol Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 16279-16288.	4.0	14
54	Ni <sub>2</sub> -Directed Anisotropic Growth of PtCu Nested Skeleton Cubes Boosting Electroreduction of Oxygen. Advanced Science, 2022, 9, e2104927.	5.6	14

#	ARTICLE	IF	CITATIONS
55	Synthesis of Nickel Nitride-Based 1D/0D Heterostructure via a Morphology-Inherited Nitridation Strategy for Efficient Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2022, 18, .	5.2	13
56	ZnSe Heterocrystalline Junctions Based on Zinc Blende-Wurtzite Polytypism. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1411-1415.	1.5	12
57	The Mystery from Tetragonal NaVPO <sub>4</sub> F to Monoclinic NaVPO <sub>4</sub> F: Crystal Presentation, Phase Conversion, and Na-Storage Kinetics. <i>Advanced Energy Materials</i> , 2021, 11, 2100627.	10.2	11
58	Low-voltage multicolor electroluminescence from all-inorganic carbon dots/Si-heterostructured light-emitting diodes. <i>Journal of Materials Science</i> , 2019, 54, 8492-8503.	1.7	9
59	Targeted killing of tumor cells based on isoelectric point suitable nanoceria-rod with high oxygen vacancies. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1410-1417.	2.9	9
60	Ternary CuCrCeO <sub>x</sub> Solid Solution Enhances N <sub>2</sub> -Selectivity in the NO Reduction with CO in the Presence of Water and Oxygen. <i>ChemCatChem</i> , 2022, 14, .	1.8	9
61	Small-Protein-Stabilized Semiconductor Nanoprobe for Targeted Imaging of Cancer Cells. <i>ChemBioChem</i> , 2016, 17, 1202-1206.	1.3	8
62	Highly efficient electrocatalysts with CoO/CoFe <sub>2</sub> O <sub>4</sub> composites embedded within N-doped porous carbon materials prepared by hard-template method for oxygen reduction reaction. <i>RSC Advances</i> , 2017, 7, 56375-56381.	1.7	8
63	Structural and Optical Characterization of ZnO/Mg <sub>x</sub> Zn <sub>1-x</sub> O Multiple Quantum Wells Based Random Laser Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 7043-7046.	4.0	7
64	Nanointerlayer Induced Electroluminescence Transition from Ultraviolet- to Red-Dominant Mode for n-Mn:ZnO/N-GaN Heterojunction. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 2521-2524.	4.0	7
65	Solution-processed yellow-white light-emitting diodes based on mixed-solvent dispersed luminescent ZnO nanocrystals. <i>Applied Physics Letters</i> , 2015, 106, 263506.	1.5	6
66	Topological doping effects in 2D chalcogenide thermoelectrics. <i>2D Materials</i> , 2018, 5, 045008.	2.0	5
67	Highly active and stable Ir nanoclusters derived from Ir <sub>1</sub> /MgAl <sub>2</sub> O <sub>4</sub> single-atom catalysts. <i>Journal of Chemical Physics</i> , 2021, 154, 131105.	1.2	5
68	Effect of twins on the crystallographic characteristics of the Mg <sub>17</sub> Al <sub>12</sub> phase in the pre-compressed AZ91 alloy. <i>Materials Letters</i> , 2018, 230, 166-169.	1.3	4
69	Optimized oxygen reduction activity by tuning shell component in Pd@Pt-based core-shell electrocatalysts. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 301-309.	5.0	4
70	Going Nano with Confined Effects to Construct Pomegranate-like Cathode for High-Energy and High-Power Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28934-28942.	4.0	3
71	Transportable Mononuclear Metal Atoms as Building Blocks for Bottom-Up Material Fabrication: Pt 1 (0) and Au 1 (0) Atoms in Stock Solutions. <i>ChemNanoMat</i> , 2020, 6, 1191-1199.	1.5	3
72	2D Chalcogenides: 2D Chalcogenide Nanoplate Assemblies for Thermoelectric Applications (Adv.) <i>Tj ETQqO O O rgBTj/Overlock 2 Tf 50</i>	11.1	2

#	ARTICLE	IF	CITATIONS
73	Selective Hydrogenation of Nitroarenes by Single-Atom Pt Catalyst Through Hydrogen Transfer Reaction. <i>Topics in Catalysis</i> , 2022, 65, 1604-1608.	1.3	2
74	Engineering Sensitized Photon Upconversion Efficiency via Nanocrystal Wavefunction and Molecular Geometry. <i>Angewandte Chemie</i> , 2020, 132, 17879-17884.	1.6	0
75	Single-Atom Catalysts: Enhancement of Mass Transport for Oxygen Reduction Reaction Using Petal-Like Porous Fe-NC Nanosheet ( <i>Small</i> 6/2021). <i>Small</i> , 2021, 17, 2170024.	5.2	0