

# Yue Gong

## List of Publications by Year in descending order

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75  
papers

9,082  
citations

46918

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76769

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76  
docs citations

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times ranked

12378  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018, 13, 856-861.	15.6	741
2	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2018, 30, e1800588.	11.1	511
3	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , 2020, 12, 764-772.	6.6	452
4	Single-atom cobalt array bound to distorted 1T MoS <sub>2</sub> with ensemble effect for hydrogen evolution catalysis. <i>Nature Communications</i> , 2019, 10, 5231.	5.8	371
5	Zirconium-Porphyrin-Based Metal-Organic Framework Hollow Nanotubes for Immobilization of Noble-Metal Single Atoms. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3493-3498.	7.2	341
6	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, 1705509.	11.1	341
7	Constructing NiCo/Fe <sub>3</sub> O <sub>4</sub> Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 15336-15341.	6.6	310
8	Designing Air-Stable O <sub>3</sub> -Type Cathode Materials by Combined Structure Modulation for Na-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 8440-8443.	6.6	303
9	Surface evolution of a Pt-Pd-Au electrocatalyst for stable oxygen reduction. <i>Nature Energy</i> , 2017, 2, .	19.8	302
10	High-Performance Anode Material Sr <sub>2</sub> FeMo <sub>0.65</sub> Ni <sub>0.35</sub> O <sub>6</sub> with <i>In Situ</i> Exsolved Nanoparticle Catalyst. <i>ACS Nano</i> , 2016, 10, 8660-8669.	7.3	287
11	An Unusual Strong Visible-Light Absorption Band in Red Anatase TiO <sub>2</sub> Photocatalyst Induced by Atomic Hydrogen-Occupied Oxygen Vacancies. <i>Advanced Materials</i> , 2018, 30, 1704479.	11.1	231
12	Metallic Vanadium Disulfide Nanosheets as a Platform Material for Multifunctional Electrode Applications. <i>Nano Letters</i> , 2017, 17, 4908-4916.	4.5	230
13	Crystal phase-based epitaxial growth of hybrid noble metal nanostructures on 4H/fcc Au nanowires. <i>Nature Chemistry</i> , 2018, 10, 456-461.	6.6	220
14	Two-dimensional metallic tantalum disulfide as a hydrogen evolution catalyst. <i>Nature Communications</i> , 2017, 8, 958.	5.8	191
15	Van der Waals Epitaxial Growth of 2D Metallic Vanadium Diselenide Single Crystals and their Extra-High Electrical Conductivity. <i>Advanced Materials</i> , 2017, 29, 1702359.	11.1	191
16	Temperature-Mediated Selective Growth of MoS <sub>2</sub> /WS <sub>2</sub> and WS <sub>2</sub> /MoS <sub>2</sub> Vertical Stacks on Au Foils for Direct Photocatalytic Applications. <i>Advanced Materials</i> , 2016, 28, 10664-10672.	11.1	188
17	Ultrathin 2D Zirconium Metal-Organic Framework Nanosheets: Preparation and Application in Photocatalysis. <i>Small</i> , 2018, 14, e1703929.	5.2	171
18	Isolated Fe and Co dual active sites on nitrogen-doped carbon for a highly efficient oxygen reduction reaction. <i>Chemical Communications</i> , 2018, 54, 4274-4277.	2.2	166

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19	Crystal Phase and Architecture Engineering of Lotusâ€Thalamusâ€Shaped Ptâ€Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, e1801741.	11.1	163
20	Significantly Increased Raman Enhancement on MoX <sub>2</sub> (X = S, Se) Monolayers upon Phase Transition. <i>Advanced Functional Materials</i> , 2017, 27, 1606694.	7.8	158
21	Submonolayered Ru Deposited on Ultrathin Pd Nanosheets used for Enhanced Catalytic Applications. <i>Advanced Materials</i> , 2016, 28, 10282-10286.	11.1	148
22	In Situ Atomic-Scale Observation of Electrochemical Delithiation Induced Structure Evolution of LiCoO <sub>2</sub> Cathode in a Working All-Solid-State Battery. <i>Journal of the American Chemical Society</i> , 2017, 139, 4274-4277.	6.6	142
23	High loading single-atom Cu dispersed on graphene for efficient oxygen reduction reaction. <i>Nano Energy</i> , 2019, 66, 104088.	8.2	138
24	Alkali ions secure hydrides for catalytic hydrogenation. <i>Nature Catalysis</i> , 2020, 3, 703-709.	16.1	123
25	Impact of the Coordination Environment on Atomically Dispersed Pt Catalysts for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2020, 10, 907-913.	5.5	121
26	Edge Epitaxy of Two-Dimensional MoSe <sub>2</sub> and MoS <sub>2</sub> Nanosheets on One-Dimensional Nanowires. <i>Journal of the American Chemical Society</i> , 2017, 139, 8653-8660.	6.6	118
27	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. <i>Chemical Science</i> , 2020, 11, 786-790.	3.7	110
28	A Flexible Sulfurâ€Enriched Nitrogen Doped Multichannel Hollow Carbon Nanofibers Film for High Performance Sodium Storage. <i>Small</i> , 2018, 14, e1802218.	5.2	103
29	Zirconiumâ€Porphyrinâ€Based Metalâ€Organic Framework Hollow Nanotubes for Immobilization of Nobleâ€Metal Single Atoms. <i>Angewandte Chemie</i> , 2018, 130, 3551-3556.	1.6	102
30	Epitaxial Growth of Two-Dimensional Metalâ€Semiconductor Transition-Metal Dichalcogenide Vertical Stacks (VSe <sub>2</sub> /MX <sub>2</sub> ) and Their Band Alignments. <i>ACS Nano</i> , 2019, 13, 885-893.	7.3	102
31	An interpenetrating 3D porous reticular Nb <sub>2</sub> O <sub>5</sub> @carbon thin film for superior sodium storage. <i>Nano Energy</i> , 2018, 48, 448-455.	8.2	97
32	Tuning Pt-skin to Ni-rich surface of Pt <sub>3</sub> Ni catalysts supported on porous carbon for enhanced oxygen reduction reaction and formic electro-oxidation. <i>Nano Energy</i> , 2016, 19, 198-209.	8.2	94
33	High Br <sup>+</sup> Content CsPb(Cl <sub>1-y</sub> Br <sub>1+y</sub> ) <sub>3</sub> Perovskite Nanocrystals with Strong Mn <sup>2+</sup> Emission through Diverse Cation/Anion Exchange Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11739-11746.	4.0	92
34	Unusual Spinel-to-Layered Transformation in LiMn <sub>2</sub> O <sub>4</sub> Cathode Explained by Electrochemical and Thermal Stability Investigation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35463-35475.	4.0	90
35	Pillar-beam structures prevent layered cathode materials from destructive phase transitions. <i>Nature Communications</i> , 2021, 12, 13.	5.8	85
36	Phase Control on Surface for the Stabilization of High Energy Cathode Materials of Lithium Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019, 141, 4900-4907.	6.6	83

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37	Highly Active and Durable Pt <sub>72</sub> Ru <sub>28</sub> Porous Nanoalloy Assembled with Sub-4.0 nm Particles for Methanol Oxidation. <i>Advanced Energy Materials</i> , 2017, 7, 1601593.	10.2	81
38	Synthesis of Hierarchical 4H/fcc Ru Nanotubes for Highly Efficient Hydrogen Evolution in Alkaline Media. <i>Small</i> , 2018, 14, e1801090.	5.2	80
39	Optical properties of Mn <sup>2+</sup> doped cesium lead halide perovskite nanocrystals via a cation-anion co-substitution exchange reaction. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9281-9287.	2.7	76
40	Vertical 1T-TaS <sub>2</sub> Synthesis on Nanoporous Gold for High-Performance Electrocatalytic Applications. <i>Advanced Materials</i> , 2018, 30, e1705916.	11.1	75
41	Application of chemical vapor-deposited monolayer ReSe <sub>2</sub> in the electrocatalytic hydrogen evolution reaction. <i>Nano Research</i> , 2018, 11, 1787-1797.	5.8	71
42	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. <i>Science Advances</i> , 2021, 7, .	4.7	64
43	Chemical Vapor Deposition Grown Wafer-Scale 2D Tantalum Diselenide with Robust Charge-Density-Wave Order. <i>Advanced Materials</i> , 2018, 30, e1804616.	11.1	63
44	Stabilizing Cathode Materials of Lithium-Ion Batteries by Controlling Interstitial Sites on the Surface. <i>CheM</i> , 2018, 4, 1685-1695.	5.8	63
45	Surface Oxidation of AuNi Heterodimers to Achieve High Activities toward Hydrogen/Oxygen Evolution and Oxygen Reduction Reactions. <i>Small</i> , 2018, 14, e1703749.	5.2	60
46	Three-dimensional atomic-scale observation of structural evolution of cathode material in a working all-solid-state battery. <i>Nature Communications</i> , 2018, 9, 3341.	5.8	60
47	Scalable Production of Two-Dimensional Metallic Transition Metal Dichalcogenide Nanosheet Powders Using NaCl Templates toward Electrocatalytic Applications. <i>Journal of the American Chemical Society</i> , 2019, 141, 18694-18703.	6.6	56
48	One-step synthesis of van der Waals heterostructures of graphene and two-dimensional superconducting $\sqrt{3}\times\sqrt{3}$ Mo <sub>2</sub> C. <i>Physical Review B</i> , 2017, 95, .	1.1	49
49	Selenium embedded in MOF-derived N-doped microporous carbon polyhedrons as a high performance cathode for sodium-selenium batteries. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1574-1582.	3.2	48
50	Suppression of Monoclinic Phase Transitions of O3-Type Cathodes Based on Electronic Delocalization for Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22067-22073.	4.0	48
51	Elemental Segregation in Multimetallic Core-Shell Nanoplates. <i>Journal of the American Chemical Society</i> , 2019, 141, 14496-14500.	6.6	46
52	Synthesis of MoX <sub>2</sub> (X = Se or S) monolayers with high-concentration 1T phase on 4H/fcc-Au nanorods for hydrogen evolution. <i>Nano Research</i> , 2019, 12, 1301-1305.	5.8	44
53	Li-Rich Li <sub>1/6</sub> Fe <sub>1/6</sub> Ni <sub>1/6</sub> Mn <sub>1/2</sub> JO <sub>2</sub> (LFNMO) Cathodes: Atomic Scale Insight on the Mechanisms of Cycling Decay and of the Improvement due to Cobalt Phosphate Surface Modification. <i>Small</i> , 2018, 14, e1802570.	5.2	41
54	High stored energy of metallic glasses induced by high pressure. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	40

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55	Tracking the morphology evolution of nano-lead electrodeposits on the internal surface of porous carbon and its influence on lead-carbon batteries. <i>Electrochimica Acta</i> , 2016, 222, 376-384.	2.6	39
56	A new lithium diffusion model in layered oxides based on asymmetric but reversible transition metal migration. <i>Energy and Environmental Science</i> , 2020, 13, 1269-1278.	15.6	39
57	Boosting the rate capability of multichannel porous TiO <sub>2</sub> nanofibers with well-dispersed Cu nanodots and Cu <sup>2+</sup> -doping derived oxygen vacancies for sodium-ion batteries. <i>Nano Research</i> , 2019, 12, 2211-2217.	5.8	34
58	Surfaces/Interfaces Modification for Vacancies Enhancing Lithium Storage Capability of Cu <sub>2</sub> O Ultrasmall Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35137-35144.	4.0	31
59	Cation-synergy stabilizing anion redox of Chevrel phase Mo <sub>6</sub> S <sub>8</sub> in aluminum ion battery. <i>Energy Storage Materials</i> , 2021, 37, 87-93.	9.5	31
60	Manganous oxide nanoparticles encapsulated in few-layer carbon as an efficient electrocatalyst for oxygen reduction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11775-11781.	5.2	27
61	Long-Term Cycle Stability Enabled by the Incorporation of Ni into Li <sub>2</sub> MnO <sub>3</sub> Phase in the Mn-Based Li-Rich Layered Materials. <i>ACS Energy Letters</i> , 2021, 6, 789-798.	8.8	27
62	Vanadium Diselenide Single Crystals: Van der Waals Epitaxial Growth of 2D Metallic Vanadium Diselenide Single Crystals and their Extra-High Electrical Conductivity ( <i>Adv. Mater.</i> 37/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	26
63	PdAuCu Nanobranch as Self-Repairing Electrocatalyst for Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2017, 10, 1469-1474.	3.6	19
64	Mimic the Photosystem II for Water Oxidation in Neutral Solution: A Case of Co <sub>3</sub> O <sub>4</sub> . <i>Advanced Energy Materials</i> , 2018, 8, 1702313.	10.2	18
65	Fully Exploited Oxygen Redox Reaction by the Inter-Diffused Cations in Co-Free Li-Rich Materials for High Performance Li-Ion Batteries. <i>Advanced Science</i> , 2020, 7, 2001658.	5.6	17
66	A simple electrochemical method for conversion of Pt wires to Pt concave icosahedra and nanocubes on carbon paper for electrocatalytic hydrogen evolution. <i>Science China Materials</i> , 2019, 62, 115-121.	3.5	16
67	Carbon Monoxide Promotes the Catalytic Hydrogenation on Metal Cluster Catalysts. <i>Research</i> , 2020, 2020, 4172794.	2.8	14
68	Transformation of monolayer MoS <sub>2</sub> into multiphasic MoTe <sub>2</sub> : Chalcogen atom-exchange synthesis route. <i>Nano Research</i> , 2017, 10, 2761-2771.	5.8	13
69	C/L-band emission of InAs QDs monolithically grown on Ge substrate. <i>Optical Materials Express</i> , 2017, 7, 2955.	1.6	12
70	Two-dimensional spinodal interface in one-step grown graphene-molybdenum carbide heterostructures. <i>Physical Review Materials</i> , 2018, 2, .	0.9	9
71	Degrees of freedom for energy storage material. , 2022, 4, 633-644.		9
72	Unveiling the Interface Structure of the Exsolved Co-Fe Alloy Nanoparticles from Double Perovskite and Its Application in Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3287-3294.	4.0	8

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73	The promoting effect of low-level sulfidation in PdCuS nanoparticles catalyzed alkyne semihydrogenation. Nano Research, 2018, 11, 4883-4889.	5.8	6
74	Structural evolution and matter transportation of the interface in all-solid-state battery. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 226801.	0.2	3
75	C/L-band emission of InAs QDs monolithically grown on Ge platform. , 2017, , .		0