

# Guanhui Gao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71 papers	5,479 citations	28 h-index	74 g-index
76 ext. papers	6,491 ext. citations	11.1 avg, IF	5.26 L-index

#	Paper	IF	Citations
71	Phase controlled synthesis of transition metal carbide nanocrystals by ultrafast flash Joule heating.. <i>Nature Communications</i> , <b>2022</b> , 13, 262	17.4	2
70	Efficient Alkaline Water/Seawater Hydrogen Evolution by a Nanorod-nanoparticle-structured Ni-MoN Catalyst with Fast Water-dissociation Kinetics.. <i>Advanced Materials</i> , <b>2022</b> , e2201774	24	16
69	Magnetically Controllable Flowerlike, Polyhedral Ag-Cu-CoO for Surface-Enhanced Raman Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 57814-57821	9.5	3
68	3D-printed silica with nanoscale resolution. <i>Nature Materials</i> , <b>2021</b> , 20, 1506-1511	27	19
67	Gas-Phase Fluorination of Hexagonal Boron Nitride. <i>Advanced Materials</i> , <b>2021</b> , e2106084	24	2
66	Amine-Functionalized Carbon Nanodot Electrocatalysts Converting Carbon Dioxide to Methane. <i>Advanced Materials</i> , <b>2021</b> , e2105690	24	11
65	Simple in situ functionalization of carbon nanospheres. <i>Nanotechnology</i> , <b>2021</b> , 32, 085602	3.4	0
64	Direct and continuous generation of pure acetic acid solutions via electrocatalytic carbon monoxide reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	24
63	Interfacial Superconductivity Achieved in Parent AEFes (AE = Ca, Sr, Ba) by a Simple and Realistic Annealing Route. <i>Nano Letters</i> , <b>2021</b> , 21, 2191-2198	11.5	1
62	Quantitative in-situ study of strength-governed interfacial failure between h-BN and polymer-derived ceramic. <i>Acta Materialia</i> , <b>2021</b> , 210, 116832	8.4	0
61	Oxygenation of Diamond Surfaces via Hummer's Method. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4977-4987	9.6	1
60	Metal Oxide Catalysts for the Synthesis of Covalent Organic Frameworks and One-Step Preparation of Covalent Organic Framework-Based Composites. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6158-6165	9.6	6
59	Millisecond Conversion of Metastable 2D Materials by Flash Joule Heating. <i>ACS Nano</i> , <b>2021</b> , 15, 1282-1290	10.7	20
58	Highly active and selective oxygen reduction to HO on boron-doped carbon for high production rates. <i>Nature Communications</i> , <b>2021</b> , 12, 4225	17.4	44
57	Apparent Ferromagnetism in Exfoliated Ultrathin Pyrite Sheets. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 18927-18935	3.8	8
56	Structure, Properties and Applications of Two-Dimensional Hexagonal Boron Nitride. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101589	24	42
55	Functional group tuning of two-dimensional carbon nanosheets for boosting oxygen reduction electrocatalysis. <i>Carbon</i> , <b>2021</b> , 185, 395-403	10.4	1

54	Lithium-conducting covalent-organic-frameworks as artificial solid-electrolyte-interphase on silicon anode for high performance lithium ion batteries. <i>Nano Energy</i> , <b>2020</b> , 72, 104657	17.1	49
53	Synthesis of Porous N-Rich Carbon/MXene from MXene@Polypyrrole Hybrid Nanosheets as Oxygen Reduction Reaction Electrocatalysts. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 116503	3.9	9
52	Scale-Enhanced Magnetism in Exfoliated Atomically Thin Magnetite Sheets. <i>Small</i> , <b>2020</b> , 16, e2004208	11	6
51	Perovskite-Derivative Valleytronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004111	24	6
50	Toward heterostructured transition metal hybrids with highly promoted electrochemical hydrogen evolution.. <i>RSC Advances</i> , <b>2019</b> , 9, 19924-19929	3.7	3
49	Correlated Nanoscale Analysis of the Emission from Wurtzite versus Zincblende (In,Ga)As/GaAs Nanowire Core-Shell Quantum Wells. <i>Nano Letters</i> , <b>2019</b> , 19, 4448-4457	11.5	9
48	Chitin-derived porous carbon loaded with Co, N and S with enhanced performance towards electrocatalytic oxygen reduction, oxygen evolution, and hydrogen evolution reactions. <i>Electrochimica Acta</i> , <b>2019</b> , 304, 350-359	6.7	15
47	Axial GaAs/Ga(As, Bi) nanowire heterostructures. <i>Nanotechnology</i> , <b>2019</b> , 30, 425601	3.4	5
46	Highly penetrative liposome nanomedicine generated by a biomimetic strategy for enhanced cancer chemotherapy. <i>Biomaterials Science</i> , <b>2018</b> , 6, 1546-1555	7.4	26
45	Crystal-Phase Quantum Wires: One-Dimensional Heterostructures with Atomically Flat Interfaces. <i>Nano Letters</i> , <b>2018</b> , 18, 247-254	11.5	3
44	Construction of cost-effective bimetallic nanoparticles on titanium carbides as a superb catalyst for promoting hydrolysis of ammonia borane.. <i>RSC Advances</i> , <b>2018</b> , 8, 843-847	3.7	19
43	Bio-Inspired Growth of Silver Nanoparticles on 2D Material's Scaffolds as Heterostructures with Their Enhanced Antibacterial Property. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 3893-3900 <sup>1-3</sup>	1.3	5
42	Highly Dispersed Bimetallic Nanoparticles Supported on Titanium Carbides for Remarkable Hydrogen Release from Hydrous Hydrazine. <i>ChemCatChem</i> , <b>2018</b> , 10, 2200-2204	5.2	19
41	Anchoring ultrafine RhNi nanoparticles on titanium carbides/manganese oxide as an efficient catalyst for hydrogen generation from hydrous hydrazine. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 20001-20006	2.6	9
40	Redox-responsive dextran based theranostic nanoparticles for near-infrared/magnetic resonance imaging and magnetically targeted photodynamic therapy. <i>Biomaterials Science</i> , <b>2017</b> , 5, 762-771	7.4	31
39	Toward hybrid Au nanorods @ M (Au, Ag, Pd and Pt) core-shell heterostructures for ultrasensitive SERS probes. <i>Nanotechnology</i> , <b>2017</b> , 28, 245602	3.4	7
38	Toward edges-rich MoS <sub>2</sub> layers via chemical liquid exfoliation triggering distinctive magnetism. <i>Materials Research Letters</i> , <b>2017</b> , 5, 267-275	7.4	12
37	Gold Nanoclusters-Indocyanine Green Nanoprobes for Synchronous Cancer Imaging, Treatment, and Real-Time Monitoring Based on Fluorescence Resonance Energy Transfer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25114-25127	9.5	49

36	Molecular Beam Epitaxy of GaN Nanowires on Epitaxial Graphene. <i>Nano Letters</i> , <b>2017</b> , 17, 5213-5221	11.5	60
35	Metal-Semiconductor Phase-Transition in WSe <sub>2</sub> Te Monolayer. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603991	24	88
34	Cancer Cell Membrane-Biomimetic Nanoparticles for Homologous-Targeting Dual-Modal Imaging and Photothermal Therapy. <i>ACS Nano</i> , <b>2016</b> , 10, 10049-10057	16.7	434
33	Smart hyaluronidase-activated theranostic micelles for dual-modal imaging guided photodynamic therapy. <i>Biomaterials</i> , <b>2016</b> , 101, 10-9	15.6	86
32	Synthesis of surfactant-free CuPt dendritic heterostructures with highly electrocatalytic performance for methanol oxidation reaction. <i>Materials Research Letters</i> , <b>2016</b> , 4, 212-218	7.4	6
31	Iron oxide nanoparticles protected by NIR-active multidentate-polymers as multifunctional nanoprobe for NIRF/PA/MR trimodal imaging. <i>Nanoscale</i> , <b>2016</b> , 8, 775-9	7.7	14
30	Indocyanine Green-Loaded Polydopamine-Reduced Graphene Oxide Nanocomposites with Amplifying Photoacoustic and Photothermal Effects for Cancer Theranostics. <i>Theranostics</i> , <b>2016</b> , 6, 1043-52	12.1	146
29	Molecular beam epitaxy of single crystalline GaN nanowires on a flexible Ti foil. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 202101	3.4	69
28	Living Cell Multilifetime Encoding Based on Lifetime-Tunable Lattice-Strained Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13187-91	9.5	12
27	Activatable albumin-photosensitizer nanoassemblies for triple-modal imaging and thermal-modulated photodynamic therapy of cancer. <i>Biomaterials</i> , <b>2016</b> , 93, 10-19	15.6	106
26	Indocyanine green-loaded polydopamine-iron ions coordination nanoparticles for photoacoustic/magnetic resonance dual-modal imaging-guided cancer photothermal therapy. <i>Nanoscale</i> , <b>2016</b> , 8, 17150-17158	7.7	94
25	Smac therapeutic Peptide nanoparticles inducing apoptosis of cancer cells for combination chemotherapy with Doxorubicin. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8005-12	9.5	21
24	Compact chelator-free Ni-integrated CuS nanoparticles with tunable near-infrared absorption and enhanced relaxivity for in vivo dual-modal photoacoustic/MR imaging. <i>Nanoscale</i> , <b>2015</b> , 7, 17631-6	7.7	30
23	Iron oxide nanoparticle layer templated by polydopamine spheres: a novel scaffold toward hollow-mesoporous magnetic nanoreactors. <i>Nanoscale</i> , <b>2015</b> , 7, 806-13	7.7	21
22	Site-Selective Trimetallic Heterogeneous Nanostructures for Enhanced Electrocatalytic Performance. <i>Advanced Materials</i> , <b>2015</b> , 27, 5573-7	24	41
21	Preparation and antibacterial performance testing of Ag nanoparticles embedded biological materials. <i>Applied Surface Science</i> , <b>2015</b> , 330, 237-244	6.7	17
20	Designing nanoscaled hybrids from atomic layered boron nitride with silver nanoparticle deposition. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3148	13	52
19	ZEB1 knockdown mediated using polypeptide cationic micelles inhibits metastasis and effects sensitization to a chemotherapeutic drug for cancer therapy. <i>Nanoscale</i> , <b>2014</b> , 6, 10084-94	7.7	16

18	Polypeptide micelles with dual pH activatable dyes for sensing cells and cancer imaging. <i>Nanoscale</i> , <b>2014</b> , 6, 5416-24	7.7	13
17	Synthesis of silver nanoparticles on surface-functionalized multi-walled carbon nanotubes by ultraviolet initiated photo-reduction method. <i>Applied Surface Science</i> , <b>2014</b> , 317, 49-55	6.7	14
16	Near-infrared-emitting two-dimensional codes based on lattice-strained core/(doped) shell quantum dots with long fluorescence lifetime. <i>Advanced Materials</i> , <b>2014</b> , 26, 6313-7	24	46
15	Improving drug accumulation and photothermal efficacy in tumor depending on size of ICG loaded lipid-polymer nanoparticles. <i>Biomaterials</i> , <b>2014</b> , 35, 6037-46	15.6	156
14	Synthesis and photocurrent of amorphous boron nanowires. <i>Nanotechnology</i> , <b>2014</b> , 25, 335701	3.4	12
13	Smart human serum albumin-indocyanine green nanoparticles generated by programmed assembly for dual-modal imaging-guided cancer synergistic phototherapy. <i>ACS Nano</i> , <b>2014</b> , 8, 12310-22	16.7	527
12	Highly Bright and Compact Alloyed Quantum Rods with Near Infrared Emitting: a Potential Multifunctional Nanoplatform for Multimodal Imaging In Vivo. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3897-3905	15.6	26
11	Photosensitizer-conjugated redox-responsive dextran theranostic nanoparticles for near-infrared cancer imaging and photodynamic therapy. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 874-881	4.9	58
10	Structural characteristics at the adductor muscle and shell interface in mussel. <i>Applied Biochemistry and Biotechnology</i> , <b>2013</b> , 171, 1203-11	3.2	11
9	Dextran-based redox-responsive doxorubicin prodrug micelles for overcoming multidrug resistance. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 5793	4.9	60
8	Protein-assisted fabrication of nano-reduced graphene oxide for combined in vivo photoacoustic imaging and photothermal therapy. <i>Biomaterials</i> , <b>2013</b> , 34, 5236-43	15.6	250
7	Synthesis of Fluorinated Graphene Oxide and its Amphiphobic Properties. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 266-272	3.1	93
6	Graphene quantum dots derived from carbon fibers. <i>Nano Letters</i> , <b>2012</b> , 12, 844-9	11.5	1779
5	Electrically insulating thermal nano-oils using 2D fillers. <i>ACS Nano</i> , <b>2012</b> , 6, 1214-20	16.7	189
4	Binary and ternary atomic layers built from carbon, boron, and nitrogen. <i>Advanced Materials</i> , <b>2012</b> , 24, 4878-95	24	197
3	Artificially stacked atomic layers: toward new van der Waals solids. <i>Nano Letters</i> , <b>2012</b> , 12, 3518-25	11.5	187
2	Electrochemical behavior of microbiologically influenced corrosion on Fe <sub>3</sub> Al in marine environment. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2009</b> , 22, 313-320	2.5	11
1	In Situ Synthesis of Lead-Free Halide Perovskite/POF Nanocomposites as Photocatalysts for Photoinduced Polymerization in Both Organic and Aqueous Phases464-471		17

