

# Gang Shi

## List of Publications by Year in descending order

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78  
papers

8,299  
citations

218677

26  
h-index

79698

73  
g-index

78  
all docs

78  
docs citations

78  
times ranked

13020  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical and in-plane heterostructures from WS <sub>2</sub> /MoS <sub>2</sub> monolayers. Nature Materials, 2014, 13, 1135-1142.	27.5	1,918
2	Vapour phase growth and grain boundary structure of molybdenum disulphide atomic layers. Nature Materials, 2013, 12, 754-759.	27.5	1,590
3	In-plane heterostructures of graphene and hexagonal boron nitride with controlled domain sizes. Nature Nanotechnology, 2013, 8, 119-124.	31.5	796
4	Chemical Vapor Deposition Growth of Crystalline Monolayer MoSe <sub>2</sub> . ACS Nano, 2014, 8, 5125-5131.	14.6	694
5	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. Nano Letters, 2014, 14, 442-449.	9.1	463
6	Direct Laser-Patterned Micro-Supercapacitors from Paintable MoS <sub>2</sub> Films. Small, 2013, 9, 2905-2910.	10.0	455
7	Synthesis and Photoresponse of Large GaSe Atomic Layers. Nano Letters, 2013, 13, 2777-2781.	9.1	381
8	Excitation and Active Control of Propagating Surface Plasmon Polaritons in Graphene. Nano Letters, 2013, 13, 3698-3702.	9.1	238
9	High-Contrast Terahertz Wave Modulation by Gated Graphene Enhanced by Extraordinary Transmission through Ring Apertures. Nano Letters, 2014, 14, 1242-1248.	9.1	214
10	Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers. Nature Communications, 2014, 5, 3193.	12.8	198
11	Synthesis of Millimeter-Scale Transition Metal Dichalcogenides Single Crystals. Advanced Functional Materials, 2016, 26, 2009-2015.	14.9	152
12	Tellurium-Assisted Low-Temperature Synthesis of MoS <sub>2</sub> and WS <sub>2</sub> Monolayers. ACS Nano, 2015, 9, 11658-11666.	14.6	123
13	Boron Nitride-Graphene Nanocapacitor and the Origins of Anomalous Size-Dependent Increase of Capacitance. Nano Letters, 2014, 14, 1739-1744.	9.1	120
14	Light-Trapping SERS Substrate with Regular Bioinspired Arrays for Detecting Trace Dyes. ACS Applied Materials & Interfaces, 2021, 13, 11535-11542.	8.0	71
15	Autonomous Synchronizing and Frequency Response Control of Multi-terminal DC Systems With Wind Farm Integration. IEEE Transactions on Sustainable Energy, 2020, 11, 2504-2514.	8.8	46
16	Anomalous high capacitance in a coaxial single nanowire capacitor. Nature Communications, 2012, 3, 879.	12.8	45
17	Scalable Transfer of Suspended Two-Dimensional Single Crystals. Nano Letters, 2015, 15, 5089-5097.	9.1	38
18	Zwitterionic pH/redox nanoparticles based on dextran as drug carriers for enhancing tumor intercellular uptake of doxorubicin. Materials Science and Engineering C, 2016, 61, 278-285.	7.3	38

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19	Fabrication of 3D biomimetic composite coating with broadband antireflection, superhydrophilicity, and double p-n heterojunctions. <i>Nano Research</i> , 2017, 10, 2377-2385.	10.4	38
20	High-performance supercapacitor based on MOF derived porous NiCo <sub>2</sub> O <sub>4</sub> nanoparticle. <i>Science China Technological Sciences</i> , 2020, 63, 1470-1477.	4.0	35
21	3D Band Diagram and Photoexcitation of 2D/3D Semiconductor Heterojunctions. <i>Nano Letters</i> , 2015, 15, 5919-5925.	9.1	33
22	Photothermal Membrane of CuS/Polyacrylamide- <i>Carboxymethyl Cellulose</i> for Solar Evaporation. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2402-2410.	4.4	33
23	Preparation of polyelectrolyte complex nanoparticles of chitosan and poly(2-acrylamido-2-methylpropanesulfonic acid) for doxorubicin release. <i>Materials Science and Engineering C</i> , 2016, 58, 724-729.	7.3	32
24	Preparation of pH/redox dual responsive polymeric micelles with enhanced stability and drug controlled release. <i>Materials Science and Engineering C</i> , 2018, 91, 727-733.	7.3	31
25	Ionic Liquid-Assisted Exfoliation of Two-Dimensional Metal-Organic Frameworks for Luminescent Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2167-2175.	6.7	27
26	Fabrication of a Three-Dimensional Bionic Si/TiO <sub>2</sub> /MoS <sub>2</sub> Photoelectrode for Efficient Solar Water Splitting. <i>ACS Applied Energy Materials</i> , 2021, 4, 730-736.	5.1	27
27	Titanium Oxide/Silicon Moth-Eye Structures with Antireflection, p-n Heterojunctions, and Superhydrophilicity. <i>Langmuir</i> , 2016, 32, 10719-10724.	3.5	26
28	Fabrication of an insect-like compound-eye SERS substrate with 3D Ag nano-bowls and its application in optical sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129357.	7.8	23
29	High-efficient liquid exfoliation of 2D metal-organic framework using deep-eutectic solvents. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105461.	8.2	23
30	The synthesis of modified alginate flocculants and their properties for removing heavy metal ions of wastewater. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46577.	2.6	22
31	Fabrication of TiO <sub>2</sub> Arrays Using Solvent-Assisted Soft Lithography. <i>Langmuir</i> , 2009, 25, 9639-9643.	3.5	20
32	Fabrication of hierarchical structures by unconventional two-step imprinting. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 655-659.	9.4	18
33	Preparations of hyperbranched polymer nano micelles and the pH/redox controlled drug release behaviors. <i>Materials Science and Engineering C</i> , 2017, 79, 116-122.	7.3	16
34	The polyion complex nano-prodrug of doxorubicin (DOX) with poly(lactic acid-co-malic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (ac Research, 2015, 24, 1189-1195.	2.4	15
35	Synthesis of polyglycolic acid grafting from sodium alginate through direct polycondensation and its application as drug carrier. <i>Journal of Materials Science</i> , 2015, 50, 7835-7841.	3.7	15
36	A hierarchical SiPN/CN/MoS <sub>x</sub> photocathode with low internal resistance and strong light-absorption for solar hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120758.	20.2	15

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37	Surface Charge Convertible and Biodegradable Synthetic Zwitterionic Nanoparticles for Enhancing Cellular Drug Uptake. <i>Macromolecular Bioscience</i> , 2016, 16, 308-313.	4.1	14
38	Reduction-responsive zwitterionic nanogels based on carboxymethyl chitosan for enhancing cellular uptake in drug release. <i>Colloid and Polymer Science</i> , 2016, 294, 629-637.	2.1	14
39	A Simple Polypyrrole/Polyvinylidene Fluoride Membrane with Hydrophobic and Self-Floating Ability for Solar Water Evaporation. <i>Nanomaterials</i> , 2022, 12, 859.	4.1	14
40	Hierarchical porous polyaniline supercapacitor electrode from polyaniline/silica self-agggregates. <i>Polymer International</i> , 2018, 67, 1670-1676.	3.1	12
41	A novel photothermal, self-healing and anti-reflection water evaporation membrane. <i>Soft Matter</i> , 2021, 17, 4730-4737.	2.7	12
42	Noncontact Metal-Spiropyran-Metal Nanostructured Substrates with Ag and Au@SiO <sub>2</sub> Nanoparticles Deposited in Nanohole Arrays for Surface-Enhanced Fluorescence and Trace Detection of Metal Ions. <i>ACS Applied Nano Materials</i> , 2021, 4, 3780-3789.	5.0	12
43	Drug release behavior of poly (lactic-glycolic acid) grafting from sodium alginate (ALG-g-PLGA) prepared by direct polycondensation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 1152-1162.	3.5	11
44	Single and Binary Dye Adsorption of Methylene Blue and Methyl Orange in Alcohol Aqueous Solution via Rice Husk Based Activated Carbon: Kinetics and Equilibrium Studies. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1272-1278.	2.6	11
45	Preparation of surface-modified, micrometer-sized carboxymethyl chitosan drug-loaded microspheres. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45731.	2.6	10
46	Sustainable synthesis of nitrogen-doped porous carbon with improved electrocatalytic performance for hydrogen evolution. <i>New Journal of Chemistry</i> , 2019, 43, 3078-3083.	2.8	10
47	Efficient gatherer of sunlight based on two-sided bio-inspired antireflective micro-pyramids with PPy/TiO <sub>2</sub> . <i>Inorganic Chemistry Communication</i> , 2019, 110, 107604.	3.9	10
48	Nitrogen/phosphorus co-doped porous carbon materials for supercapacitor electrodes. <i>New Journal of Chemistry</i> , 2021, 45, 7239-7246.	2.8	9
49	Conducting polymer nanowires fabricated by edge effect of NIL. <i>Journal of Materials Chemistry</i> , 2012, 22, 12096.	6.7	8
50	Iridium-catalyzed cascade dehydrogenation, ring-closure reaction leading to 2,4,6-triaryl-1,3,5-triazines. <i>Russian Journal of General Chemistry</i> , 2016, 86, 380-386.	0.8	8
51	Fabricating composite supercapacitor electrodes of polyaniline and aniline-terminated silica by mechanical agitation and sonication. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1249-1256.	2.5	8
52	Micro-nano fabrication of hierarchical PPy/TiO <sub>2</sub> /Si by continuous self-assembly technology. <i>Materials and Manufacturing Processes</i> , 2018, 33, 378-382.	4.7	8
53	Preparations and doxorubicin controlled release of amino-acid based redox/pH dual-responsive nanomicelles. <i>Materials Science and Engineering C</i> , 2017, 77, 920-926.	7.3	7
54	Enhanced photoactivities of ternary composite coating by antireflection and double P-N heterojunctions. <i>Journal of Materials Science</i> , 2017, 52, 1981-1987.	3.7	7

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55	Fabricating Biomimetic Antireflective Coating Based on TiO <sub>2</sub> Pyramids by Soft Lithography. <i>ChemistrySelect</i> , 2019, 4, 13392-13395.	1.5	7
56	Correlation between Droplet-Induced Strain Actuation and Voltage Generation in Single-Wall Carbon Nanotube Films. <i>Nano Letters</i> , 2011, 11, 5117-5122.	9.1	6
57	Preparation of pH-sensitive zwitterionic nano micelles and drug controlled release for enhancing cellular uptake. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 643-656.	3.5	6
58	Synthesis of SiOH-functionalized composite particles with buckled surface by seeded emulsion polymerization. <i>Colloid and Polymer Science</i> , 2017, 295, 471-478.	2.1	6
59	Synthesis and characterization of polypyrrole doped by cage silsesquioxane with carboxyl groups. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 470-475.	2.7	6
60	Voltage source control of offshore all-DC wind farm. <i>IET Renewable Power Generation</i> , 2019, 13, 2986-2993.	3.1	6
61	Synthesis of poly(vinyl alcohol-graft-lactic acid) copolymer and its application as medical anti-tissue adhesion thin film. <i>Polymer Bulletin</i> , 2015, 72, 1515-1529.	3.3	5
62	Studies on the preparation and controlled release of redox/pH-responsive zwitterionic nanoparticles based on poly-L-glutamic acid and cystamine. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 646-662.	3.5	5
63	Automatic Synthesis of Combinational Logic Circuit with Gene Expression-Based Clonal Selection Algorithm. , 2008, , .		4
64	Preparation of Poly(N-butyl methacrylate-co-glycidyl methacrylate) and Toughness Improvement for Powder Epoxy Resin E663. <i>Polymer-Plastics Technology and Engineering</i> , 2015, 54, 881-888.	1.9	4
65	Patterning thermoplastic polymers by fast room-temperature imprinting. <i>Journal of Materials Science</i> , 2018, 53, 5429-5435.	3.7	4
66	Fabrication of polyaniline/octa-(aminopropylsilsesquioxane) with enhanced electrochemical capacitance and improved cycling stability via in situ polymerization. <i>Polymer Bulletin</i> , 2018, 75, 3395-3406.	3.3	4
67	Preparation of Drug-Eluting Microspheres Based on Semi-Interpenetrating Polymer Network of Modified Chitosan and Poly(2-acrylamide-2-methylpropanesulfonic acid). <i>Polymer Science - Series A</i> , 2019, 61, 61-69.	1.0	4
68	Vertically Polarized Laser Speckle Contrast Imaging to Monitor Blood Flow in Pulp. <i>Journal of Modern Optics</i> , 2021, 68, 1075-1082.	1.3	4
69	Photoactive PANI/TiO <sub>2</sub> /Si composite coatings with 3D bio-inspired structures. <i>New Journal of Chemistry</i> , 2017, 41, 6965-6968.	2.8	3
70	A polyaniline inverse opal/nanofiber network film fabricated at an air-water interface. <i>New Journal of Chemistry</i> , 2018, 42, 12960-12967.	2.8	3
71	Evolutionary Design of Combinational Logic Circuits Using an Improved Gene Expression-Based Clonal Selection Algorithm. , 2009, , .		2
72	Synthesis of Polypyrrole Inverse Opals through an Air-water Interface Polymerization Method and Their Application in Dye-sensitized Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700489.	2.2	2

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73	Laparoscopic management of a cornual pregnancy coexistent with intrauterine pregnancy. Asian Journal of Surgery, 2022, 45, 641-642.	0.4	2
74	Synthesis of Janus Particle Arrays and Janus Films through an Interfacial Polymerization Method. Russian Journal of Physical Chemistry A, 2018, 92, 778-784.	0.6	1
75	Micro-Nano Machining TiO2 Patterns without Residual Layer by Unconventional Imprinting. Applied Sciences (Switzerland), 2021, 11, 10097.	2.5	1
76	The Automatic Synthesis of Combinational Logic Circuits with Graph-Based Clonal Selection Algorithm. , 2009, , .		0
77	An Unusual Imaging of Atypical Polypoid Adenomyoma in a 21-Year-Old Woman. Journal of Minimally Invasive Gynecology, 2022, 29, 462-464.	0.6	0
78	A modified cup-type uterine manipulator. Asian Journal of Surgery, 2022, , .	0.4	0