Weiwei Gao

List of Publications by Year in Descending Order

67 papers	7,036 citations	36 h-index	72 g-index
72 ext. papers	9,033 ext. citations	13.7 avg, IF	6.25 L-index

#	Paper	IF	Citations
67	Cellular Nanosponges for Biological Neutralization. *Advanced Materials*, **2021**, e2107719	24	5
66	Physical Disruption of Solid Tumors by Immunostimulatory Microrobots Enhances Antitumor Immunity. *Advanced Materials*, **2021**, 33, e2103505	24	9
65	Virus-Mimicking Cell Membrane-Coated Nanoparticles for Cytosolic Delivery of mRNA. *Angewandte Chemie - International Edition*, **2021**,	16.4	9
64	Surface Glycan Modification of Cellular Nanosponges to Promote SARS-CoV-2 Inhibition. *Journal of the American Chemical Society*, **2021**, 143, 17615-17621	16.4	9
63	Nanoparticle approaches against SARS-CoV-2 infection. *Current Opinion in Solid State and Materials Science*, **2021**, 25, 100964	12	6
62	Biomembrane-Functionalized Micromotors: Biocompatible Active Devices for Diverse Biomedical Applications. *Advanced Materials*, **2021**, e2107177	24	9
61	Cell membrane-coated nanoparticles and their biomedical applications **2021**,		
60	Intratumoral immunotherapy using platelet-cloaked nanoparticles enhances antitumor immunity in solid tumors. *Nature Communications*, **2021**, 12, 1999	17.4	29
59	Nanomaterial Biointerfacing via Mitochondrial Membrane Coating for Targeted Detoxification and Molecular Detection. *Nano Letters*, **2021**, 21, 2603-2609	11.5	17
58	Genetically engineered cell membrane-coated nanoparticles for targeted delivery of dexamethasone to inflamed lungs. *Science Advances*, **2021**, 7,	14.3	32
57	ACE2 Receptor-Modified Algae-Based Microrobot for Removal of SARS-CoV-2 in Wastewater. *Journal of the American Chemical Society*, **2021**, 143, 12194-12201	16.4	15
56	Nanomaterials arising amid antibiotic resistance. *Nature Reviews Microbiology*, **2021**, 19, 5-6	22.2	30
55	Cartilage-targeting ultrasmall lipid-polymer hybrid nanoparticles for the prevention of cartilage degradation. *Bioengineering and Translational Medicine*, **2021**, 6, e10187	14.8	11
54	Lure-and-kill macrophage nanoparticles alleviate the severity of experimental acute pancreatitis. *Nature Communications*, **2021**, 12, 4136	17.4	9
53	White Blood Cell Membrane-Coated Nanoparticles: Recent Development and Medical Applications. *Advanced Healthcare Materials*, **2021**, e2101349	10.1	6
52	Engineered Cell-Membrane-Coated Nanoparticles Directly Present Tumor Antigens to Promote Anticancer Immunity. *Advanced Materials*, **2020**, 32, e2001808	24	95
51	Cellular Nanosponges Inhibit SARS-CoV-2 Infectivity. *Nano Letters*, **2020**, 20, 5570-5574	11.5	159

50	A Biomimetic Nanoparticle to "Lure and Kill" Phospholipase A2. *Angewandte Chemie - International Edition*, **2020**, 59, 10461-10465	16.4	16
49	Targeted gene silencing in vivo by platelet membrane-coated metal-organic framework nanoparticles. *Science Advances*, **2020**, 6, eaaz6108	14.3	101
48	Multimodal Enzyme Delivery and Therapy Enabled by Cell Membrane-Coated Metal-Organic Framework Nanoparticles. *Nano Letters*, **2020**, 20, 4051-4058	11.5	42
47	A Biomimetic Nanoparticle to □Lure and Kill□ Phospholipase A2. *Angewandte Chemie*, **2020**, 132, 10547-10551	3.6	2
46	Recent Progress in Capturing and Neutralizing Inflammatory Cytokines. *CCS Chemistry*, **2020**, 2, 376-389	7.2	7
45	Drug Targeting Platelet Membrane-Coated Nanoparticles. *Small Structures*, **2020**, 1, 2000018	8.7	45
44	Cell-Membrane-Cloaked Oil Nanosponges Enable Dual-Modal Detoxification. *ACS Nano*, **2019**, 13, 7209-7221	16.7	39
43	Inhibition of Pathogen Adhesion by Bacterial Outer Membrane-Coated Nanoparticles. *Angewandte Chemie - International Edition*, **2019**, 58, 11404-11408	16.4	63
42	Inhibition of Pathogen Adhesion by Bacterial Outer Membrane-Coated Nanoparticles. *Angewandte Chemie*, **2019**, 131, 11526-11530	3.6	4
41	Multiantigenic Nanotoxoids for Antivirulence Vaccination against Antibiotic-Resistant Gram-Negative Bacteria. *Nano Letters*, **2019**, 19, 4760-4769	11.5	37
40	Biomimetic Nanosponges Suppress In Vivo Lethality Induced by the Whole Secreted Proteins of Pathogenic Bacteria. *Small*, **2019**, 15, e1804994	11	32
39	Direct 3D Printing of Ultralight Graphene Oxide Aerogel Microlattices. *Advanced Functional Materials*, **2018**, 28, 1707024	15.6	198
38	Highly stretchable carbon aerogels. *Nature Communications*, **2018**, 9, 881	17.4	136
37	Cell Membrane Coating Nanotechnology. *Advanced Materials*, **2018**, 30, e1706759	24	592
36	Synergistic effect of graphene and carbon nanotube for high-performance electromagnetic interference shielding films. *Carbon*, **2018**, 133, 316-322	10.4	120
35	Nanoparticle Functionalization with Platelet Membrane Enables Multifactored Biological Targeting and Detection of Atherosclerosis. *ACS Nano*, **2018**, 12, 109-116	16.7	141
34	Neutrophil membrane-coated nanoparticles inhibit synovial inflammation and alleviate joint damage in inflammatory arthritis. *Nature Nanotechnology*, **2018**, 13, 1182-1190	28.7	339
33	A Defect-Free Principle for Advanced Graphene Cathode of Aluminum-Ion Battery. *Advanced Materials*, **2017**, 29, 1605958	24	228

32	Graphene and Other 2D Colloids: Liquid Crystals and Macroscopic Fibers. *Advanced Materials*, **2017**, 29, 1606794	24	101
31	High-Quality Graphene Microflower Design for High-Performance Li‐S and Al-Ion Batteries. *Advanced Energy Materials*, **2017**, 7, 1700051	21.8	117
30	Biomimetic Architectured Graphene Aerogel with Exceptional Strength and Resilience. *ACS Nano*, **2017**, 11, 6817-6824	16.7	214
29	Oxide Film Efficiently Suppresses Dendrite Growth in Aluminum-Ion Battery. *ACS Applied Materials & Interfaces*, **2017**, 9, 22628-22634	9.5	72
28	Superconducting Continuous Graphene Fibers via Calcium Intercalation. *ACS Nano*, **2017**, 11, 4301-4306	16.7	35
27	Highly Stretchable Graphene Fibers with Ultrafast Electrothermal Response for Low-Voltage Wearable Heaters. *Advanced Electronic Materials*, **2017**, 3, 1600425	6.4	94
26	MXene/graphene hybrid fibers for high performance flexible supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 22113-22119	13	212
25	Nanoparticulate Delivery of Cancer Cell Membrane Elicits Multiantigenic Antitumor Immunity. *Advanced Materials*, **2017**, 29, 1703969	24	260
24	Macrophage-like nanoparticles concurrently absorbing endotoxins and proinflammatory cytokines for sepsis management. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11488-11493	11.5	218
23	Hydrothermally Activated Graphene Fiber Fabrics for Textile Electrodes of Supercapacitors. *ACS Nano*, **2017**, 11, 11056-11065	16.7	87
22	Ion Diffusion-Directed Assembly Approach to Ultrafast Coating of Graphene Oxide Thick Multilayers. *ACS Nano*, **2017**, 11, 9663-9670	16.7	23
21	Effect of flake size on the mechanical properties of graphene aerogels prepared by freeze casting. *RSC Advances*, **2017**, 7, 33600-33605	3.7	36
20	Wet-Spun Superelastic Graphene Aerogel Millispheres with Group Effect. *Advanced Materials*, **2017**, 29, 1701482	24	99
19	Wrinkle-stabilized metal-graphene hybrid fibers with zero temperature coefficient of resistance. *Nanoscale*, **2017**, 9, 12178-12188	7.7	13
18	Wood-based straightway channel structure for high performance microwave absorption. *Carbon*, **2017**, 124, 492-498	10.4	133
17	Ultrafast all-climate aluminum-graphene battery with quarter-million cycle life. *Science Advances*, **2017**, 3, eaao7233	14.3	230
16	Large-area potassium-doped highly conductive graphene films for electromagnetic interference shielding. *Nanoscale*, **2017**, 9, 18613-18618	7.7	41
15	Self-Assembled Colloidal Gel Using Cell Membrane-Coated Nanosponges as Building Blocks. *ACS Nano*, **2017**, 11, 11923-11930	16.7	38

14	Experimental Guidance to Graphene Macroscopic Wet-Spun Fibers, Continuous Papers, and Ultralightweight Aerogels. *Chemistry of Materials*, **2017**, 29, 319-330	9.6	36
13	Pressure-induced structural transition of CdxZn1⊠O alloys. *Applied Physics Letters*, **2016**, 108, 152105	3.4	9
12	Formation of Nanoscale Composites of Compound Semiconductors Driven by Charge Transfer. *Nano Letters*, **2016**, 16, 5247-54	11.5	9
11	Biomimetic gradient scaffold from ice-templating for self-seeding of cells with capillary effect. *Acta Biomaterialia*, **2015**, 20, 113-119	10.8	75
10	Nanoparticle biointerfacing by platelet membrane cloaking. *Nature*, **2015**, 526, 118-21	50.4	890
9	Detoxification of Organophosphate Poisoning Using Nanoparticle Bioscavengers. *ACS Nano*, **2015**, 9, 6450-8	16.7	102
8	Interfacial interactions between natural RBC membranes and synthetic polymeric nanoparticles. *Nanoscale*, **2014**, 6, 2730-7	7.7	207
7	Room-temperature negative capacitance in a ferroelectric-dielectric superlattice heterostructure. *Nano Letters*, **2014**, 14, 5814-9	11.5	105
6	Cancer cell membrane-coated nanoparticles for anticancer vaccination and drug delivery. *Nano Letters*, **2014**, 14, 2181-8	11.5	780
5	Lipid-insertion enables targeting functionalization of erythrocyte membrane-cloaked nanoparticles. *Nanoscale*, **2013**, 5, 8884-8	7.7	182
4	Origin of Different Growth Modes for Epitaxial Manganite Films. *Journal of the American Ceramic Society*, **2013**, 96, 1660-1665	3.8	11
3	Physical properties of Cu/La0.67Ba0.33MnO3/SrTiO3 : Nb junctions with ultrathin manganite layers. *Journal Physics D: Applied Physics*, **2011**, 44, 025002	3	3
2	Influence of film thickness on the physical properties of manganite heterojunctions. *Journal of Applied Physics*, **2011**, 109, 023909	2.5	7
1	Virus-Mimicking Cell Membrane-Coated Nanoparticles for Cytosolic Delivery of mRNA. *Angewandte Chemie*,	3.6	3