Michael Cai Wang

List of Publications by Citations

31 papers	947 citations	15 h-index	30 g-index
35 ext. papers	1,149 ext. citations	8 avg, IF	4.55 L-index

#	Paper	IF	Citations
31	Crumpled Graphene Photodetector with Enhanced, Strain-Tunable, and Wavelength-Selective Photoresponsivity. *Advanced Materials*, **2016**, 28, 4639-45	24	142
30	Mechanically Self-Assembled, Three-Dimensional Graphene-Gold Hybrid Nanostructures for Advanced Nanoplasmonic Sensors. *Nano Letters*, **2015**, 15, 7684-90	11.5	125
29	Doping-Induced Tunable Wettability and Adhesion of Graphene. *Nano Letters*, **2016**, 16, 4708-12	11.5	97
28	Heterogeneous, three-dimensional texturing of graphene. *Nano Letters*, **2015**, 15, 1829-35	11.5	78
27	Spectroscopic investigation of the wettability of multilayer graphene using highly ordered pyrolytic graphite as a model material. *Langmuir*, **2014**, 30, 12827-36	4	73
26	The importance of neutral and niche processes for bacterial community assembly differs between habitat generalists and specialists. *FEMS Microbiology Ecology*, **2016**, 92,	4.3	68
25	Hierarchical, Dual-Scale Structures of Atomically Thin MoS for Tunable Wetting. *Nano Letters*, **2017**, 17, 1756-1761	11.5	54
24	Bioelectronics with two-dimensional materials. *Microelectronic Engineering*, **2016**, 161, 18-35	2.5	40
23	Three-Dimensional Integration of Graphene via Swelling, Shrinking, and Adaptation. *Nano Letters*, **2015**, 15, 4525-31	11.5	39
22	Long-term oil contamination causes similar changes in microbial communities of two distinct soils. *Applied Microbiology and Biotechnology*, **2015**, 99, 10299-310	5.7	26
21	Ultraviolet to Mid-Infrared Emissivity Control by Mechanically Reconfigurable Graphene. *Nano Letters*, **2019**, 19, 5086-5092	11.5	26
20	Enhanced Electrical and Mechanical Properties of Chemically Cross-Linked Carbon-Nanotube-Based Fibers and Their Application in High-Performance Supercapacitors. *ACS Nano*, **2020**, 14, 632-639	16.7	24
19	Mechanical instability driven self-assembly and architecturing of 2D materials. *2D Materials*, **2017**, 4, 022002	5.9	22
18	Electrical Double Layer of Supported Atomically Thin Materials. *Nano Letters*, **2019**, 19, 4588-4593	11.5	15
17	Ångstrom-Scale, Atomically Thin 2D Materials for Corrosion Mitigation and Passivation. *Coatings*, **2019**, 9, 133	2.9	15
16	Graphene bioelectronics. *Biomedical Engineering Letters*, **2013**, 3, 201-208	3.6	15
15	A sustainable approach to large area transfer of graphene and recycling of the copper substrate. *Journal of Materials Chemistry C*, **2017**, 5, 11226-11232	7.1	13

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14	Effects of hydrodynamics on the cross-sectional distribution and transport of plastic in an urban coastal river. *Water Environment Research*, **2021**, 93, 186-200	2.8	13
13	Measuring individual carbon nanotubes and single graphene sheets using atomic force microscope infrared spectroscopy. *Nanotechnology*, **2017**, 28, 355707	3.4	11
12	Crack-assisted, localized deformation of van der Waals materials for enhanced strain confinement. *2D Materials*, **2019**, 6, 044001	5.9	8
11	Effects of Urban Hydrology on Plastic Transport in a Subtropical River. *ACS ES&T Water*, **2021**, 1, 1714-1727		7
10	Large scale self-assembly of plasmonic nanoparticles on deformed graphene templates. *Scientific Reports*, **2021**, 11, 12232	4.9	6
9	Slippery and Sticky Graphene in Water. *ACS Nano*, **2019**, 13, 2072-2082	16.7	6
8	A Flexible -SiC-Based Neural Interface Utilizing Pyrolyzed-Photoresist Film (C) Active Sites. *Micromachines*, **2021**, 12,	3.3	5
7	ngstrm- and Nano-scale Pore-Based Nucleic Acid Sequencing of Current and Emergent Pathogens. *MRS Advances*, **2020**, 5, 2889-2906	0.7	2
6	Mitigation of Electromigration in Metal Interconnects via Hexagonal Boron Nitride as an ngstrm-Thin Passivation Layer. *Advanced Electronic Materials*, **2021**, 7, 2100002	6.4	2
5	Dynamic Radiative Thermal Management by Crumpled Graphene **2019**,		1
4	Strongly enhanced electromechanical coupling in atomically thin transition metal dichalcogenides. *Materials Today*, **2021**, 47, 69-74	21.8	1
3	Plastic transport in a complex confluence of the Mekong River in Cambodia. *Environmental Research Letters*, **2021**, 16, 095009	6.2	1
2	Sustainable and Resilient Manufacturing for the Post-COVID-19 Era. *Smart and Sustainable Manufacturing Systems*, **2020**, 4, 20200053	0.8	
1	Ultrathin neural interfaces constructed from carbon and amorphous silicon carbide **2022**, 197-216		