

# Weicheng Jiao

## List of Publications by Year in descending order

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52  
papers

1,892  
citations

236925

25  
h-index

254184

43  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2752  
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of the functionality of graphene oxide for its application in epoxy nanocomposites. <i>Polymer</i> , 2013, 54, 6437-6446.	3.8	252
2	MoS <sub>2</sub> graphene fiber based gas sensing devices. <i>Carbon</i> , 2015, 95, 34-41.	10.3	124
3	Synthesis and characterization of a new hierarchical reinforcement by chemically grafting graphene oxide onto carbon fibers. <i>Journal of Materials Chemistry</i> , 2012, 22, 18748.	6.7	120
4	Ultrasensitive room temperature ppb-level NO <sub>2</sub> gas sensors based on SnS <sub>2</sub> /rGO nanohybrids with P-N transition and optoelectronic visible light enhancement performance. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8616-8625.	5.5	85
5	Superhydrophobic gradient wrinkle strain sensor with ultra-high sensitivity and broad strain range for motion monitoring. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9634-9643.	10.3	80
6	Scalable exfoliation for large-size boron nitride nanosheets by low temperature thermal expansion-assisted ultrasonic exfoliation. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6359-6368.	5.5	76
7	Improving the gas barrier properties of Fe <sub>3</sub> O <sub>4</sub> /graphite nanoplatelet reinforced nanocomposites by a low magnetic field induced alignment. <i>Composites Science and Technology</i> , 2014, 99, 124-130.	7.8	71
8	High Sensitivity, Humidity-Independent, Flexible NO <sub>2</sub> and NH <sub>3</sub> Gas Sensors Based on SnS <sub>2</sub> Hybrid Functional Graphene Ink. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 997-1004.	8.0	69
9	Attapulgite-graphene oxide hybrids as thermal and mechanical reinforcements for epoxy composites. <i>Composites Science and Technology</i> , 2013, 87, 29-35.	7.8	63
10	SnS <sub>2</sub> Quantum Dot-Based Optoelectronic Flexible Sensors for Ultrasensitive Detection of NO <sub>2</sub> Down to 1 ppb. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25178-25188.	8.0	51
11	Preparation of carbon fiber unsaturated sizing agent for enhancing interfacial strength of carbon fiber/vinyl ester resin composite. <i>Applied Surface Science</i> , 2018, 439, 88-95.	6.1	49
12	Surface modification and magnetic alignment of hexagonal boron nitride nanosheets for highly thermally conductive composites. <i>RSC Advances</i> , 2017, 7, 43380-43389.	3.6	48
13	Ultrafast, Reversible Transition of Superwettability of Graphene Network and Controllable Underwater Oil Adhesion for Oil Microdroplet Transportation. <i>Advanced Functional Materials</i> , 2018, 28, 1706686.	14.9	44
14	Effects of modified attapulgite on the properties of attapulgite/epoxy nanocomposites. <i>Polymer Composites</i> , 2013, 34, 22-31.	4.6	40
15	A biomimetic, multifunctional, superhydrophobic graphene film with self-sensing and fast recovery properties for microdroplet transportation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17325-17334.	10.3	40
16	Enhanced and tunable photochromism of MoO <sub>3</sub> -butylamine organic-inorganic hybrid composites. <i>Journal of Materials Chemistry C</i> , 2017, 5, 427-433.	5.5	39
17	FDS-Modified SiO <sub>2</sub> /rGO Wrinkled Films with a Micro-Nanoscale Hierarchical Structure and Anti-icing/Deicing Properties under Condensation Condition. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901446.	3.7	39
18	Molecular dynamics simulations of the effect of sizing agent on the interface property in carbon fiber reinforced vinyl ester resin composite. <i>Applied Surface Science</i> , 2019, 479, 1192-1199.	6.1	38

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19	Improvement in interfacial shear strength and fracture toughness for carbon fiber reinforced epoxy composite by fiber sizing. <i>Polymer Composites</i> , 2014, 35, 482-488.	4.6	37
20	Preparation of MoO <sub>3</sub> QDs through combining intercalation and thermal exfoliation. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6720-6726.	5.5	37
21	Simulation and measurement of cryogenic-interfacial-properties of T700/modified epoxy for composite cryotanks. <i>Materials and Design</i> , 2019, 182, 108050.	7.0	35
22	Spraying pressure-tuning for the fabrication of the tunable adhesion superhydrophobic coatings between Lotus effect and Petal effect and their anti-icing performance. <i>Chemical Engineering Journal</i> , 2022, 434, 134710.	12.7	35
23	Biomimic Hairy Skin Tactile Sensor Based on Ferromagnetic Microwires. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 33848-33855.	8.0	33
24	A self-sensing, superhydrophobic, heterogeneous graphene network with controllable adhesion behavior. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16992-17000.	10.3	32
25	Superhydrophobic heterogeneous graphene networks with controllable adhesion behavior for detecting multiple underwater motions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17766-17774.	10.3	28
26	Improving the interfacial property of carbon fiber/vinyl ester resin composite by grafting modification of sizing agent on carbon fiber surface. <i>Journal of Materials Science</i> , 2017, 52, 13812-13828.	3.7	23
27	Study on Damage Evaluation and Machinability of UD-CFRP for the Orthogonal Cutting Operation Using Scanning Acoustic Microscopy and the Finite Element Method. <i>Materials</i> , 2017, 10, 204.	2.9	23
28	Preparation of quantum dots from MoO <sub>3</sub> nanosheets by UV irradiation and insight into morphology changes. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11449-11456.	5.5	22
29	Study of structure-mechanical heterogeneity of polyacrylonitrile-based carbon fiber monofilament by plasma etching-assisted radius profiling. <i>Carbon</i> , 2017, 114, 317-323.	10.3	22
30	Improving the interfacial strength of carbon fiber/vinyl ester resin composite by self-migration of acrylamide: A molecular dynamics simulation. <i>Applied Surface Science</i> , 2018, 454, 74-81.	6.1	22
31	Smart Superhydrophobic Films with Self-Sensing and Anti-Icing Properties Based on Silica Nanoparticles and Graphene. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000492.	3.7	20
32	A novel wrinkle-gradient strain sensor with anti-water interference and high sensing performance. <i>Chemical Engineering Journal</i> , 2021, 421, 129873.	12.7	19
33	Study on phenolphthalein poly(ether sulfone)-modified cyanate ester resin and epoxy resin blends. <i>Polymer Engineering and Science</i> , 2015, 55, 2591-2602.	3.1	18
34	Enhancement of the cryogenic-interfacial strength of carbon fiber composites by chemical grafting of graphene oxide/attapulgit on T300. <i>Polymer Composites</i> , 2020, 41, 5072-5081.	4.6	17
35	Skin-inspired self-healing semiconductive touch panel based on novel transparent stretchable hydrogels. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14806-14817.	10.3	17
36	Mechanism of matrix influencing the cryogenic mechanical property of carbon fibre reinforced epoxy resin composite. <i>Composites Communications</i> , 2022, 33, 101220.	6.3	16

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37	An underwater, self-sensing, conductive composite coating with controllable wettability and adhesion behavior. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12333-12342.	10.3	15
38	Oxidative etching of MoS <sub>2</sub> /WS <sub>2</sub> nanosheets to their QDs by facile UV irradiation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31211-31216.	2.8	14
39	Modulus distribution in polyacrylonitrile-based carbon fiber monofilaments. <i>Carbon</i> , 2020, 157, 47-54.	10.3	14
40	Directional rebound control of droplets on low-temperature regular and irregular wrinkled superhydrophobic surfaces. <i>Applied Surface Science</i> , 2020, 530, 147099.	6.1	14
41	High strength and toughness epoxy nanocomposites reinforced with graphene oxide-nanocellulose micro/nanoscale structures. <i>Applied Surface Science</i> , 2019, 497, 143802.	6.1	11
42	Photothermal healing of a glass fiber reinforced composite interface by gold nanoparticles. <i>RSC Advances</i> , 2015, 5, 102167-102172.	3.6	9
43	Improving the mechanical properties of Fe <sub>3</sub> O <sub>4</sub> /carbon nanotube reinforced nanocomposites by a low-magnetic-field induced alignment. <i>Journal of Polymer Engineering</i> , 2018, 38, 731-738.	1.4	8
44	Interfacial healing of carbon fiber composites in the presence of gold nanoparticles as localized "nan heaters". <i>RSC Advances</i> , 2015, 5, 5680-5685.	3.6	6
45	Tensile Properties of Epoxy with Microcapsules and Imidazoline Derivatives Curing Agent and Interlaminar Self-Healing Properties of Carbon Fiber Reinforced Epoxy Composites. <i>Polymers and Polymer Composites</i> , 2014, 22, 293-298.	1.9	5
46	Study on rheological behavior of vinyl ester resin during thickening. <i>Journal of Vinyl and Additive Technology</i> , 2018, 24, 239-247.	3.4	4
47	Note: Wide band amplifier for quartz tuning fork sensors with digitally controlled stray capacitance compensation. <i>Review of Scientific Instruments</i> , 2015, 86, 116105.	1.3	3
48	Interface properties of carbon fiber reinforced cyanate/epoxy resin composites at cryogenic temperature. <i>Journal of Polymer Engineering</i> , 2020, 40, 291-299.	1.4	2
49	Study of the Microstructure and Mechanical Properties of Pbsn Alloys Deposited on Carbon Fiber Reinforced Epoxy Composites. <i>Polymers and Polymer Composites</i> , 2014, 22, 215-220.	1.9	1
50	Effect of Fiber Surface on the Interfacial Properties for Carbon Fiber Reinforced Polymer Composites. <i>Polymers and Polymer Composites</i> , 2014, 22, 283-288.	1.9	1
51	Calibrating conservative and dissipative response of electrically-driven quartz tuning forks. <i>Ultramicroscopy</i> , 2017, 174, 106-111.	1.9	1
52	Prediction of Delamination Buckling and Growth Behavior in Laminated Composites with Coexisting Delaminations. <i>Polymers and Polymer Composites</i> , 2014, 22, 299-308.	1.9	0