

# Xiaoqiang Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

707  
citations

567144

15  
h-index

580701

25  
g-index

40  
all docs

40  
docs citations

40  
times ranked

725  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of interphase properties in unidirectional fiber reinforced composite materials. <i>Materials &amp; Design</i> , 2011, 32, 3486-3492.	5.1	71
2	Automatic generation of random distribution of fibers in long-fiber-reinforced composites and mesomechanical simulation. <i>Materials &amp; Design</i> , 2011, 32, 885-891.	5.1	66
3	Real-time cure behaviour monitoring of polymer composites using a highly flexible and sensitive CNT buckypaper sensor. <i>Composites Science and Technology</i> , 2017, 152, 181-189.	3.8	49
4	Simulation and analysis of shape memory alloy fiber reinforced composite based on cohesive zone model. <i>Materials &amp; Design</i> , 2012, 40, 138-147.	5.1	39
5	Preparation, magnetism and microwave absorption performance of ultra-thin Fe <sub>3</sub> O <sub>4</sub> /carbon nanotube sandwich buckypaper. <i>Journal of Alloys and Compounds</i> , 2014, 606, 171-176.	2.8	39
6	Strain sensing behaviors of GnPs/epoxy sensor and health monitoring for composite materials under monotonic tensile and cyclic deformation. <i>Composites Science and Technology</i> , 2018, 158, 94-100.	3.8	36
7	Finite element simulation of the failure process of single fiber composites considering interface properties. <i>Composites Part B: Engineering</i> , 2013, 45, 573-580.	5.9	35
8	Monitoring the glass transition temperature of polymeric composites with carbon nanotube buckypaper sensor. <i>Polymer Testing</i> , 2017, 57, 12-16.	2.3	35
9	Highly sensitive graphene platelets and multi-walled carbon nanotube-based flexible strain sensor for monitoring human joint bending. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	33
10	Tensile strain sensing of buckypaper and buckypaper composites. <i>Materials and Design</i> , 2015, 88, 414-419.	3.3	32
11	Monitoring the manufacturing process of glass fiber reinforced composites with carbon nanotube buckypaper sensor. <i>Polymer Testing</i> , 2016, 52, 79-84.	2.3	26
12	Health monitoring for composite materials with high linear and sensitivity GnPs/epoxy flexible strain sensors. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 409-416.	2.0	24
13	Real time monitoring of the curing degree and the manufacturing process of fiber reinforced composites with a carbon nanotube buckypaper sensor. <i>RSC Advances</i> , 2018, 8, 22078-22085.	1.7	23
14	Real-time monitoring of low-velocity impact damage for composite structures with the omnidirection carbon nanotubesâ€™ buckypaper sensors. <i>Structural Health Monitoring</i> , 2019, 18, 454-465.	4.3	18
15	Lifetime health monitoring of fiber reinforced composites using highly flexible and sensitive MXene/CNT film sensor. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113148.	2.0	17
16	Fabrication and characterization of polymer composites surface coated Fe <sub>3</sub> O <sub>4</sub> /MWCNTs hybrid buckypaper as a novel microwaveâ€™ absorbing structure. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	14
17	Fabrication of single/multi-walled hybrid buckypaper composites and their enhancement of electromagnetic interference shielding performance. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 445308.	1.3	14
18	Multi-direction health monitoring with carbon nanotube film strain sensor. <i>International Journal of Distributed Sensor Networks</i> , 2019, 15, 155014771982968.	1.3	14

#	ARTICLE	IF	CITATIONS
19	Very high S-band microwave absorption of carbon nanotube buckypapers with Mn nanoparticle interlayers. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	10
20	Preparation of graphene-based sensor and its application in human behavior monitoring. <i>Materials Research Express</i> , 2019, 6, 075613.	0.8	10
21	Condition monitoring of composite overwrap pressure vessels based on buckypaper sensor and MXene sensor. <i>Composites Communications</i> , 2021, 25, 100699.	3.3	10
22	Structural health monitoring for polymer composites with surface printed MXene/ink sensitive sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	9
23	In situ monitoring of sandwich structure in liquid composite molding process using multifunctional <sc>MXene</sc>/<sc>carbon nanotube</sc> sensors. <i>Polymer Composites</i> , 2022, 43, 2252-2263.	2.3	9
24	Temperature and strain monitor of COPV by buckypaper and MXene sensor combined flexible printed circuit. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4211-4221.	3.8	8
25	Strain monitoring using carbon nanotube Buckypaper sensor on composite repaired structure. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	7
26	Evaluation of embedded buckypaper sensors in composite overwrapped pressure vessels for progressive damage monitoring. <i>Composite Structures</i> , 2022, 284, 115223.	3.1	7
27	Electromagnetic interference shielding properties of graphene/MWCNT hybrid buckypaper. <i>Micro and Nano Letters</i> , 2018, 13, 1252-1254.	0.6	6
28	In situ monitoring the manufacturing process of polymer composites with highly flexible and sensitive GNP/ MWCNT film sensors. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 127-133.	2.0	6
29	Electrical response of carbon nanotube buckypaper sensor subjected to monotonic tension, cycle tension and temperature. <i>Micro and Nano Letters</i> , 2018, 13, 862-867.	0.6	5
30	Self-sensing properties of bending deformation of buckypaper composites. <i>Materials Research Express</i> , 2019, 6, 105004.	0.8	5
31	Manufacture and mechanical properties of sandwich structure-battery composites. <i>Journal of Polymer Engineering</i> , 2019, 39, 838-843.	0.6	5
32	Structure bolt tightening force and loosening monitoring by conductive MXene/FPC pressure sensor with high sensitivity and wide sensing range. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 113005.	2.0	5
33	Health monitoring of composite pressure vessels through omnidirectional buckypaper sensor array. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	5
34	The role of maleic anhydride functionalized graphene oxide in improving the interfacial properties of carbon fibre/bismaleimide composites. <i>Polymer International</i> , 2018, 67, 276-282.	1.6	4
35	Real-time monitoring of resin infiltration process in vacuum assisted molding(VARI) of composites with carbon nanotube buckypaper sensor. <i>Materials Research Express</i> , 2019, 6, 115628.	0.8	4
36	Micromechanical analysis of long fiber reinforced composites with nanoparticle incorporation into the interphase region. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	3

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37	Influence of high temperature on the flexural properties of GF/pCBT laminates and their fusion-bonded joints. <i>Composites Part B: Engineering</i> , 2017, 110, 124-131.	5.9	3
38	Researching on X-Band Electromagnetic Interference Shielding Efficiency of MWCNTs Buckypapers Inserted with Mn Nanopowder. <i>Nano</i> , 2018, 13, 1850061.	0.5	1
39	Health monitoring of composite materials based on BP sensors under complex environments. <i>Micro and Nano Letters</i> , 2020, 15, 18-23.	0.6	0
40	Health monitoring of composite single lap joints with highly sensitive MWCNTs film sensors. <i>Journal of Adhesion Science and Technology</i> , 0, , 1-18.	1.4	0