

# Fujun Xu

## List of Publications by Year in descending order

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67  
papers

1,554  
citations

279798

23  
h-index

345221

36  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1732  
citing authors

#	ARTICLE	IF	CITATIONS
1	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2018, 30, e1801347.	21.0	121
2	Enhancing Electrochemical Performance of Graphene Fiber-Based Supercapacitors by Plasma Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 13652-13659.	8.0	79
3	Tensile and interfacial properties of polyacrylonitrile-based carbon fiber after different cryogenic treated condition. <i>Composites Part B: Engineering</i> , 2016, 99, 358-365.	12.0	61
4	Monitoring of seawater immersion degradation in glass fibre reinforced polymer composites using quantum dots. <i>Composites Part B: Engineering</i> , 2017, 112, 93-102.	12.0	60
5	A novel flexible humidity switch material based on multi-walled carbon nanotube/polyvinyl alcohol composite yarn. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 528-535.	7.8	58
6	Characterization of enhanced interfacial bonding between epoxy and plasma functionalized carbon nanotube films. <i>Composites Science and Technology</i> , 2017, 145, 114-121.	7.8	56
7	Flexible strain sensor based on aerogel-spun carbon nanotube yarn with a core-sheath structure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 108, 107-113.	7.6	55
8	Influence of cryogenic treatment on mechanical and interfacial properties of carbon nanotube fiber/bisphenol-F epoxy composite. <i>Composites Part B: Engineering</i> , 2017, 125, 195-202.	12.0	52
9	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. <i>ACS Nano</i> , 2018, 12, 5266-5273.	14.6	51
10	Flexible, quickly responsive and highly efficient E-heating carbon nanotube film. <i>Composites Science and Technology</i> , 2019, 183, 107824.	7.8	40
11	Synergistic effect of CNT films impregnated with CNT modified epoxy solution towards boosted interfacial bonding and functional properties of the composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 110, 1-10.	7.6	37
12	Surface Functionalization of Cotton and PC Fabrics Using SiO <sub>2</sub> and ZnO Nanoparticles for Durable Flame Retardant Properties. <i>Coatings</i> , 2020, 10, 124.	2.6	37
13	Ultra-light-weight kevlar/polyimide 3D woven spacer multifunctional composites for high-gain microstrip antenna. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 872-883.	21.1	32
14	X-ray 3D microscopy analysis of fracture mechanisms for 3D orthogonal woven E-glass/epoxy composites with drilled and moulded-in holes. <i>Composites Part B: Engineering</i> , 2018, 133, 193-202.	12.0	31
15	Bioinspired Superelastic Electroconductive Fiber for Wearable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44735-44741.	8.0	31
16	Low-Voltage Activating, Fast Responding Electro-thermal Actuator Based on Carbon Nanotube Film/PDMS Composites. <i>Advanced Fiber Materials</i> , 2021, 3, 38-46.	16.1	31
17	Highly tough and strain sensitive plasma functionalized carbon nanotube/epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 123-129.	7.6	30
18	Highly stretchable, fast thermal response carbon nanotube composite heater. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 147, 106471.	7.6	30

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19	Cylindrical conformal single-patch microstrip antennas based on three dimensional woven glass fiber/epoxy resin composites. <i>Composites Part B: Engineering</i> , 2015, 78, 331-337.	12.0	29
20	Fabrication and characterization of three dimensional woven carbon fiber/silica ceramic matrix composites. <i>Composites Part B: Engineering</i> , 2015, 77, 122-128.	12.0	27
21	Compressive strength and thermal insulation properties of the 3D woven spacer composites with connected spacer yarn structure. <i>Journal of Materials Science</i> , 2020, 55, 2380-2388.	3.7	27
22	Performance and impact damage of a three dimensionally integrated microstrip feeding antenna structure. <i>Composite Structures</i> , 2010, 93, 193-197.	5.8	26
23	In-plane mechanical properties of carbon nanotube films fabricated by floating catalyst chemical vapor decomposition. <i>Journal of Materials Science</i> , 2015, 50, 8166-8174.	3.7	25
24	Interfacial strength and debonding mechanism between aerogel-spun carbon nanotube yarn and polyphenylene sulfide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 88, 98-105.	7.6	25
25	Light-weight, high-gain three-dimensional textile structural composite antenna. <i>Composites Part B: Engineering</i> , 2020, 185, 107781.	12.0	23
26	Fabrication and impact performance of three-dimensionally integrated microstrip antennas with microstrip and coaxial feeding. <i>Smart Materials and Structures</i> , 2009, 18, 095034.	3.5	22
27	Quasi-static and dynamic interfacial evaluations of plasma functionalized carbon nanotube fiber. <i>Applied Surface Science</i> , 2019, 465, 795-801.	6.1	22
28	Effect of thermal treatments on structures and mechanical properties of aerogel-spun carbon nanotube fibers. <i>Materials Letters</i> , 2016, 183, 117-121.	2.6	21
29	Electromagnetic performance of a three-dimensional woven fabric antenna conformal with cylindrical surfaces. <i>Textile Research Journal</i> , 2017, 87, 147-154.	2.2	21
30	Fabrication and mechanical properties of flaxseed fiber bundle-reinforced polybutylene succinate composites. <i>Journal of Industrial Textiles</i> , 2020, 50, 98-113.	2.4	21
31	Biomimetic architected Kevlar/polyimide composites with ultra-light, superior anti-compressive and flame-retardant properties. <i>Composites Part B: Engineering</i> , 2022, 230, 109485.	12.0	21
32	Investigation on the mechanical and electrical properties of carbon nanotube/epoxy composites produced by resin transfer molding. <i>Journal of Composite Materials</i> , 2017, 51, 2035-2043.	2.4	19
33	Miniature horizontal axis wind turbine system for multipurpose application. <i>Energy</i> , 2014, 75, 216-224.	8.8	18
34	Simulation and electromagnetic performance of cylindrical two-element microstrip antenna array integrated in 3D woven glass fiber/epoxy composites. <i>Materials and Design</i> , 2016, 89, 1048-1056.	7.0	18
35	Highly effective E-heating performance of nickel coated carbon fiber and its composites for de-icing application. <i>Composite Structures</i> , 2019, 229, 111397.	5.8	18
36	Effect of Weaving Direction of Conductive Yarns on Electromagnetic Performance of 3D Integrated Microstrip Antenna. <i>Applied Composite Materials</i> , 2013, 20, 827-838.	2.5	17

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37	Effect of conductive yarn crimp in radiation patch on electromagnetic performance of 3D integrated microstrip antenna. <i>Composites Part B: Engineering</i> , 2012, 43, 465-470.	12.0	16
38	Densely packed, highly strain sensitive carbon nanotube composites with sufficient polymer penetration. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 130, 105728.	7.6	16
39	Bioinspired microstructure-reorganized behavior of carbon nanotube yarn induced by cyclic stretching training. <i>Journal of Materials Chemistry C</i> , 2020, 8, 117-123.	5.5	16
40	Fabrication and property of discarded denim fabric/polypropylene composites. <i>Journal of Industrial Textiles</i> , 2015, 44, 798-812.	2.4	14
41	Effect of Wire Space and Weaving Pattern on Performance of Microstrip Antennas Integrated in the Three Dimensional Orthogonal Woven Composites. <i>Applied Composite Materials</i> , 2012, 19, 21-30.	2.5	13
42	Rapid Nanowelding of Carbon Coatings onto Glass Fibers by Electrothermal Shock. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 37722-37731.	8.0	13
43	Light-weight, high-gain antenna with broad temperature adaptability based on multifunctional 3D woven spacer Kevlar/polyimide composites. <i>Composites Communications</i> , 2022, 30, 101061.	6.3	13
44	Three-dimensional woven structural glass fiber/polytetrafluoroethylene (PTFE) composite antenna with superb integrity and electromagnetic performance. <i>Composite Structures</i> , 2022, 281, 115096.	5.8	12
45	Dye aggregation in layer-by-layer dyeing of cotton fabrics. <i>RSC Advances</i> , 2016, 6, 20286-20293.	3.6	11
46	Electromagnetic performance and impact damage of the microstrip antennas integrated in cylindrical three dimensional woven composite structures. <i>Polymer Composites</i> , 2018, 39, 3259-3267.	4.6	10
47	Strain sensing fabric integrated with carbon nanotube yarn for wearable applications. <i>Textile Research Journal</i> , 2019, 89, 3048-3055.	2.2	10
48	Improving mechanical and electrical properties of oriented polymer-free multi-walled carbon nanotube paper by spraying while winding. <i>Composites Part B: Engineering</i> , 2013, 53, 342-346.	12.0	9
49	Interfacial modified unidirectional wheat straw/polylactic acid composites. <i>Journal of Industrial Textiles</i> , 2022, 51, 272S-284S.	2.4	9
50	Experimental and numerical study of the behavior of epoxy foam-filled 3D woven spacer composites under bending load. <i>Polymer Composites</i> , 2022, 43, 3057-3067.	4.6	9
51	Super-strong CNT composite yarn with tight CNT packing via a compress-stretch process. <i>Nanoscale</i> , 2022, 14, 9078-9085.	5.6	9
52	Bending properties and failure mechanisms of three-dimensional hybrid woven spacer composites with glass and carbon fibers. <i>Textile Research Journal</i> , 2019, 89, 4502-4511.	2.2	8
53	Ultra-high compressive strength of 3D woven spacer composites with bulked glass fiber and saturated resin absorption. <i>Composite Structures</i> , 2022, 290, 115542.	5.8	8
54	Light-weight strain sensor based on carbon nanotube/epoxy composite yarn. <i>Journal of Materials Science</i> , 2021, 56, 13156-13164.	3.7	7

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55	Bio-Inspired Hierarchical Carbon Nanotube Yarn with Ester Bond Cross-Linkages towards High Conductivity for Multifunctional Applications. <i>Nanomaterials</i> , 2022, 12, 208.	4.1	7
56	Three-Dimensional Textile Structural Conical Conformal Microstrip Antennas for Multifunctional Flexible Electronics. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1440-1448.	4.3	6
57	Characterization and comparison of properties of cryogenic conditioned CNT reinforced thermoset (epoxy) and thermoplastic (poly vinyl alcohol) composite yarns. <i>Journal of Composite Materials</i> , 2021, 55, 4503-4511.	2.4	5
58	Dyeable electroconductive cotton wrapped CNT yarn for multifunctional textiles. <i>Journal of Materials Science</i> , 2022, 57, 731-738.	3.7	4
59	Mechanical and Electrical Properties of Carbon Nanotube / Polydimethylsiloxane Composites Yarn. <i>Journal of Engineered Fibers and Fabrics</i> , 2016, 11, 155892501601100.	1.0	3
60	Simulation and experimental study of double-element antennas based on a three-dimensional woven structure with various curvature radii. <i>Textile Reseach Journal</i> , 2017, 87, 216-223.	2.2	3
61	Highly stretchable electro-conductive yarn via wrapping carbon nanotube yarn on multifilament polyester yarn. <i>Journal of Industrial Textiles</i> , 2020, , 152808372095740.	2.4	3
62	Structural modification of carbon nanotube film toward multifunctional composites via a wet-compression method. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1817-1826.	3.1	3
63	Wet cryogenic modification of the carbon nanotube assembly inspired by frozen Chinese Doufu recipe. <i>Materials Letters</i> , 2021, 303, 130421.	2.6	3
64	Ultra-light 3D fabric Reinforced Composite with Distinct Thermal Insulation and Superior Sound-absorbing Properties. <i>Journal of Physics: Conference Series</i> , 2021, 1790, 012065.	0.4	2
65	Electromagnetic performance of three-dimensional woven spacer microstrip antenna with various conductive fibers in extreme temperatures. <i>Textile Reseach Journal</i> , 2022, 92, 2625-2634.	2.2	2
66	Numerical analyses of axial tension mechanisms of 3D orthogonal woven E-glass/epoxy composites with drilled holes. <i>Textile Reseach Journal</i> , 2022, 92, 3478-3487.	2.2	2
67	Superior stable, highly efficient and anisotropic electrothermal composite heater in various directions with fast response based on aligned carbon nanotube sheets. <i>Advanced Engineering Materials</i> , 0, , .	3.5	1