

Han Zhang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

3,896
citations

23
h-index

62
g-index

74
ext. papers

4,893
ext. citations

8.3
avg, IF

5.56
L-index

#	Paper	IF	Citations
73	Atomic-Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. <i>Advanced Functional Materials</i> , 2009 , 19, 3077-3083	15.6	1875
72	Programmable wettability on photocontrolled graphene film. <i>Science Advances</i> , 2018 , 4, eaat7392	14.3	172
71	Improved fracture toughness and integrated damage sensing capability by spray coated CNTs on carbon fibre prepreg. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 70, 102-110	8.4	158
70	Controlling the dynamic percolation of carbon nanotube based conductive polymer composites by addition of secondary nanofillers: The effect on electrical conductivity and tuneable sensing behaviour. <i>Composites Science and Technology</i> , 2013 , 74, 85-90	8.6	131
69	Ultra-high phase content poly(vinylidene fluoride) with relaxor-like ferroelectricity for high energy density capacitors. <i>Nature Communications</i> , 2019 , 10, 4535	17.4	126
68	Toward Stretchable Self-Powered Sensors Based on the Thermoelectric Response of PEDOT:PSS/Polyurethane Blends. <i>Advanced Functional Materials</i> , 2018 , 28, 1704285	15.6	119
67	The use of carbon nanotubes for damage sensing and structural health monitoring in laminated composites: a review. <i>Nanocomposites</i> , 2015 , 1, 167-184	3.4	87
66	Mechanical, electrical and thermal properties of in-situ exfoliated graphene/epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 95, 229-236	8.4	82
65	Additive manufacturing high performance graphene-based composites: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 124, 105483	8.4	78
64	Tissue-Engineered Trachea Consisting of Electrospun Patterned sc-PLA/GO- g-IL Fibrous Membranes with Antibacterial Property and 3D-Printed Skeletons with Elasticity. <i>Biomacromolecules</i> , 2019 , 20, 1765-1776	6.9	77
63	A Review on Functionally Graded Materials and Structures via Additive Manufacturing: From Multi-Scale Design to Versatile Functional Properties. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900981	6.8	73
62	Synergistic effects of spray-coated hybrid carbon nanoparticles for enhanced electrical and thermal surface conductivity of CFRP laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 105, 9-18	8.4	52
61	Interlaminar toughening of woven fabric carbon/epoxy composite laminates using hybrid aramid/phenoxy interleaves. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 101, 151-159	8.4	46
60	In Situ Exfoliation of Graphene in Epoxy Resins: A Facile Strategy to Efficient and Large Scale Graphene Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24112-22	9.5	46
59	The effect of graphene network formation on the electrical, mechanical, and multifunctional properties of graphene/epoxy nanocomposites. <i>Composites Science and Technology</i> , 2019 , 169, 224-231	8.6	45
58	Localized toughening of carbon/epoxy laminates using dissolvable thermoplastic interleaves and electrospun fibres. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 79, 116-126	8.4	43
57	Conductive Polymer Hydrogel Microfibers from Multiflow Microfluidics. <i>Small</i> , 2019 , 15, e1805162	11	37

56	Tofu-inspired microcarriers from droplet microfluidics for drug delivery. <i>Science China Chemistry</i> , 2019 , 62, 87-94	7.9	37
55	Filtration effects of graphene nanoplatelets in resin infusion processes: Problems and possible solutions. <i>Composites Science and Technology</i> , 2017 , 139, 138-145	8.6	36
54	Giant energy storage density in PVDF with internal stress engineered polar nanostructures. <i>Nano Energy</i> , 2020 , 72, 104662	17.1	32
53	Multicolored photonic barcodes from dynamic micromolding. <i>Materials Horizons</i> , 2018 , 5, 979-983	14.4	30
52	Graphite Nanoplatelet Modified Epoxy Resin for Carbon Fibre Reinforced Plastics with Enhanced Properties. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-10	3.2	27
51	Static and dynamic percolation of phenoxy/carbon nanotube nanocomposites. <i>European Polymer Journal</i> , 2015 , 68, 128-138	5.2	25
50	A responsive porous hydrogel particle-based delivery system for oncotherapy. <i>Nanoscale</i> , 2019 , 11, 2687-2693	7.2	23
49	Universal Control on Pyroresistive Behavior of Flexible Self-Regulating Heating Devices. <i>Advanced Functional Materials</i> , 2017 , 27, 1702253	15.6	23
48	Integrated Damage Sensing in Fibre-Reinforced Composites with Extremely Low Carbon Nanotube Loadings. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-7	3.2	22
47	Ultra-High Actuation Stress Polymer Actuators as Light-Driven Artificial Muscles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33210-33218	9.5	21
46	Tailored pyroresistive performance and flexibility by introducing a secondary thermoplastic elastomeric phase into graphene nanoplatelet (GNP) filled polymer composites for self-regulating heating devices. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2760-2768	7.1	21
45	Glass-like transparent high strength polyethylene films by tuning drawing temperature. <i>Polymer</i> , 2019 , 171, 180-191	3.9	19
44	Effect of mixed fillers on positive temperature coefficient of conductive polymer composites. <i>Nanocomposites</i> , 2016 , 2, 58-64	3.4	19
43	In-Situ Monitoring of Interlaminar Shear Damage in Carbon Fibre Composites. <i>Advanced Composites Letters</i> , 2015 , 24, 096369351502400	1.2	18
42	Flexible and Stretchable Self-Powered Multi-Sensors Based on the N-Type Thermoelectric Response of Polyurethane/Nax(Ni-ett)n Composites. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900582	6.4	17
41	Multiscale understanding of electric polarization in poly(vinylidene fluoride)-based ferroelectric polymers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16436-16442	7.1	16
40	Morphological Hydrogel Microfibers with MXene Encapsulation for Electronic Skin. <i>Research</i> , 2021 , 2021, 7065907	7.8	16
39	Pyroresistivity in conductive polymer composites: a perspective on recent advances and new applications. <i>Polymer International</i> , 2019 , 68, 299-305	3.3	15

38	Fabrication of Graphene-Reinforced Nanocomposites with Improved Fracture Toughness in Net Shape for Complex 3D Structures via Digital Light Processing. <i>Journal of Carbon Research</i> , 2019 , 5, 25	3.3	14
37	Emerging Functional Biomaterials as Medical Patches. <i>ACS Nano</i> , 2021 , 15, 5977-6007	16.7	14
36	Protein-Based Hybrid Responsive Microparticles for Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18413-18422	9.5	14
35	High temperature self-healing SiBCN ceramics derived from hyperbranched polyborosilazanes. <i>Advanced Composites and Hybrid Materials</i> , 2018 , 1, 506-517	8.7	14
34	Enhanced Thermal and Electrical Properties of Polystyrene-Graphene Nanofibers via Electrospinning. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-8	3.2	13
33	Smart cord-rubber composites with integrated sensing capabilities by localised carbon nanotubes using a simple swelling and infusion method. <i>Composites Science and Technology</i> , 2018 , 167, 24-31	8.6	12
32	Breaking the Nanoparticle Loading-Dispersion Dichotomy in Polymer Nanocomposites with the Art of Croissant-Making. <i>ACS Nano</i> , 2018 , 12, 9040-9050	16.7	12
31	Elastic MXene Hydrogel Microfiber-Derived Electronic Skin for Joint Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47800-47806	9.5	12
30	Synergistic effects of filler size on thermal annealing-induced percolation in polylactic acid (PLA)/graphite nanoplatelet (GNP) nanocomposites. <i>Nanocomposites</i> , 2017 , 3, 67-75	3.4	11
29	Dissolvable thermoplastic interleaves for carbon nanotube localization in carbon/epoxy laminates with integrated damage sensing capabilities. <i>Structural Health Monitoring</i> , 2018 , 17, 59-66	4.4	10
28	Sustainable and self-regulating out-of-oven manufacturing of FRPs with integrated multifunctional capabilities. <i>Composites Science and Technology</i> , 2020 , 190, 108032	8.6	9
27	The effect of conductive network on positive temperature coefficient behaviour in conductive polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 139, 106074	8.4	9
26	Transparent, Lightweight, and High Strength Polyethylene Films by a Scalable Continuous Extrusion and Solid-State Drawing Process. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900138	3.9	8
25	P _N junction-based ZnO wearable textile nanogenerator for biomechanical energy harvesting. <i>Nano Energy</i> , 2021 , 85, 105938	17.1	8
24	Graphene Delivery Systems for Hierarchical Fiber Reinforced Composites. <i>MRS Advances</i> , 2016 , 1, 1339-1344	3.7	8
23	Microcellular epoxy/graphene nanocomposites with outstanding electromagnetic interference shielding and mechanical performance by overcoming nanofiller loading/dispersion dichotomy. <i>Composites Science and Technology</i> , 2021 , 215, 109000	8.6	8
22	High-modulus rotary jet spun co-polyimide nanofibers and their composites. <i>Nanocomposites</i> , 2020 , 6, 1-11	3.4	6
21	Self-powered ultrasensitive and highly stretchable temperature-strain sensing composite yarns. <i>Materials Horizons</i> , 2021 , 8, 2513-2519	14.4	6

20	Multifunctional epoxy nanocomposites reinforced by two-dimensional materials: A review. <i>Carbon</i> , 2021 , 185, 57-81	10.4	5
19	Optimization of Three-Roll Mill Parameters for In-Situ Exfoliation of Graphene. <i>MRS Advances</i> , 2016 , 1, 1389-1394	0.7	4
18	Photo-thermal actuation of ultra-drawn high-density polyethylene. <i>Polymer</i> , 2020 , 207, 122897	3.9	4
17	Recent progress in acoustic materials and noise control strategies [A review]. <i>Applied Materials Today</i> , 2021 , 24, 101141	6.6	4
16	Responsive and self-healing structural color supramolecular hydrogel patch for diabetic wound treatment.. <i>Bioactive Materials</i> , 2022 , 15, 194-202	16.7	4
15	High-Performance Transparent Laminates Based on Highly Oriented Polyethylene Films. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2458-2468	4.3	3
14	Shear-flow-induced graphene coating microfibers from microfluidic spinning.. <i>Innovation(China)</i> , 2022 , 3, 100209	17.8	3
13	Roe-inspired stem cell microcapsules for inflammatory bowel disease treatment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
12	Nano-Engineered Hierarchical Carbon Fibres and Their Composites: Preparation, Properties and Multifunctionalities 2017 , 101-116		2
11	Determination of multi-direction loading path based on analytical method in forming of multi-cavity parts by considering folding defect. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 475-483	3.2	2
10	Highly stretchable and sensitive self-powered sensors based on the N-Type thermoelectric effect of polyurethane/Nax(Ni-ett)n/graphene oxide composites. <i>Composites Communications</i> , 2021 , 28, 100952	6.7	2
9	Best of Both Worlds: Synergistically Derived Material Properties via Additive Manufacturing of Nanocomposites. <i>Advanced Functional Materials</i> , 2021 , 31, 2103334	15.6	2
8	Nature inspired hierarchical structures in nano-cellular epoxy/graphene-Fe ₃ O ₄ nanocomposites with ultra-efficient EMI and robust mechanical strength. <i>Journal of Materials Science and Technology</i> , 2022 , 103, 177-185	9.1	2
7	Light-Driven Actuation in Synthetic Polymers: A Review from Fundamental Concepts to Applications. <i>Advanced Optical Materials</i> , 2102186	8.1	2
6	Dual In-Situ Water Diffusion Monitoring of GFRPs based on Optical Fibres and CNTs. <i>Journal of Composites Science</i> , 2020 , 4, 97	3	0
5	Tailoring nanofibrillated cellulose through sonication and its potential use in molded pulp packaging. <i>Nanocomposites</i> , 2021 , 7, 109-122	3.4	0
4	Best of Both Worlds: Synergistically Derived Material Properties via Additive Manufacturing of Nanocomposites (Adv. Funct. Mater. 46/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170343	15.6	
3	Polymer Nanocomposites for Temperature Sensing and Self-regulating Heating Devices 2021 , 247-266		

2 Multifunctional composites based on hierarchical micro/nanostructures: design, manufacturing, properties, and applications **2020**, 183-198

1 Enhancing the reinforcing efficiency in CNT nanocomposites the development of pyrene-based active dispersants.. *RSC Advances*, **2021**, 11, 23892-23900

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