

Chun H Wang

List of Publications by Year in descending order

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315
papers

13,299
citations

16451

64
h-index

37204

96
g-index

319
all docs

319
docs citations

319
times ranked

9916
citing authors

#	ARTICLE	IF	CITATIONS
1	A synthetic time-reversal imaging method for structural health monitoring. <i>Smart Materials and Structures</i> , 2004, 13, 415-423.	3.5	421
2	Hybrid composite laminates reinforced with glass/carbon woven fabrics for lightweight load bearing structures. <i>Materials & Design</i> , 2012, 36, 75-80.	5.1	360
3	Aligning multilayer graphene flakes with an external electric field to improve multifunctional properties of epoxy nanocomposites. <i>Carbon</i> , 2015, 94, 607-618.	10.3	288
4	A PATH-INDEPENDENT PARAMETER FOR FATIGUE UNDER PROPORTIONAL AND NON-PROPORTIONAL LOADING. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1993, 16, 1285-1297.	3.4	269
5	Two-birds-one-stone: multifunctional supercapacitors beyond traditional energy storage. <i>Energy and Environmental Science</i> , 2021, 14, 1854-1896.	30.8	252
6	Novel Electrically Conductive Porous PDMS/Carbon Nanofiber Composites for Deformable Strain Sensors and Conductors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14207-14215.	8.0	239
7	Strain Sensors with Adjustable Sensitivity by Tailoring the Microstructure of Graphene Aerogel/PDMS Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24853-24861.	8.0	195
8	Life Prediction Techniques for Variable Amplitude Multiaxial Fatigue—Part 1: Theories. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1996, 118, 367-370.	1.4	187
9	Improving the through-thickness thermal and electrical conductivity of carbon fibre/epoxy laminates by exploiting synergy between graphene and silver nano-inclusions. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 69, 72-82.	7.6	180
10	MXene/chitosan nanocoating for flexible polyurethane foam towards remarkable fire hazards reductions. <i>Journal of Hazardous Materials</i> , 2020, 381, 120952.	12.4	174
11	Out-of-plane crashworthiness of bio-inspired self-similar regular hierarchical honeycombs. <i>Composite Structures</i> , 2016, 144, 1-13.	5.8	153
12	Crushing analysis for novel bio-inspired hierarchical circular structures subjected to axial load. <i>International Journal of Mechanical Sciences</i> , 2018, 140, 407-431.	6.7	147
13	Recent Advances in Fiber-Shaped Supercapacitors and Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e1902779.	21.0	142
14	On the design methodology of scarf repairs to composite laminates. <i>Composites Science and Technology</i> , 2008, 68, 35-46.	7.8	138
15	Recent advances in rational design of polymer nanocomposite dielectrics for energy storage. <i>Nano Energy</i> , 2020, 74, 104844.	16.0	138
16	Development of polymer composites using modified, high-structural integrity graphene platelets. <i>Composites Science and Technology</i> , 2014, 91, 82-90.	7.8	136
17	Improving the toughness and electrical conductivity of epoxy nanocomposites by using aligned carbon nanofibres. <i>Composites Science and Technology</i> , 2015, 117, 146-158.	7.8	135
18	Machine-learning assisted laser powder bed fusion process optimization for AlSi10Mg: New microstructure description indices and fracture mechanisms. <i>Acta Materialia</i> , 2020, 201, 316-328.	7.9	133

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19	Crashworthiness of bionic fractal hierarchical structures. <i>Materials and Design</i> , 2018, 158, 147-159.	7.0	122
20	Crashworthiness design of novel hierarchical hexagonal columns. <i>Composite Structures</i> , 2018, 194, 36-48.	5.8	121
21	Phase morphology of nanofibre interlayers: Critical factor for toughening carbon/epoxy composites. <i>Composites Science and Technology</i> , 2012, 72, 256-262.	7.8	120
22	Modelling complex progressive failure in notched composite laminates with varying sizes and stacking sequences. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 58, 16-23.	7.6	120
23	Processable 3-nm thick graphene platelets of high electrical conductivity and their epoxy composites. <i>Nanotechnology</i> , 2014, 25, 125707.	2.6	119
24	Ultrasensitive and Stretchable Strain Sensors Based on Maze-like Vertical Graphene Network. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36312-36322.	8.0	116
25	Crashworthiness behavior of Koch fractal structures. <i>Materials and Design</i> , 2018, 144, 229-244.	7.0	113
26	Multifunctional MXene/natural rubber composite films with exceptional flexibility and durability. <i>Composites Part B: Engineering</i> , 2020, 188, 107875.	12.0	111
27	Recent advances in carbon-based nanomaterials for flame retardant polymers and composites. <i>Composites Part B: Engineering</i> , 2021, 212, 108675.	12.0	110
28	Improved design methods for scarf repairs to highly strained composite aircraft structure. <i>Composite Structures</i> , 2006, 75, 132-144.	5.8	105
29	Direct 3D Printing of Highly Anisotropic, Flexible, Constriction-Resistive Sensors for Multidirectional Proprioception in Soft Robots. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15631-15643.	8.0	103
30	Liquid Metal Droplet and Graphene Co-Fillers for Electrically Conductive Flexible Composites. <i>Small</i> , 2020, 16, e1903753.	10.0	102
31	Waste-derived low-cost mycelium composite construction materials with improved fire safety. <i>Fire and Materials</i> , 2018, 42, 816-825.	2.0	100
32	A Review on Additive Manufacturing of Shape-Memory Materials for Biomedical Applications. <i>Jom</i> , 2020, 72, 1229-1253.	1.9	98
33	Interlayer self-healing and toughening of carbon fibre/epoxy composites using copolymer films. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 512-518.	7.6	97
34	Strategies for Designing Stretchable Strain Sensors and Conductors. <i>Advanced Materials Technologies</i> , 2020, 5, 1900908.	5.8	94
35	Wearable Temperature Sensors with Enhanced Sensitivity by Engineering Microcrack Morphology in PEDOT:PSS/PDMS Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36578-36588.	8.0	93
36	Rational Design of Ultrasensitive Pressure Sensors by Tailoring Microscopic Features. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800403.	3.7	90

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37	Epoxy nanocomposites containing magnetite-carbon nanofibers aligned using a weak magnetic field. <i>Polymer</i> , 2015, 68, 25-34.	3.8	89
38	Self-healing of delamination cracks in mendable epoxy matrix laminates using poly[ethylene-co-(methacrylic acid)] thermoplastic. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 1301-1307.	7.6	88
39	Thermal Degradation and Fire Properties of Fungal Mycelium and Mycelium - Biomass Composite Materials. <i>Scientific Reports</i> , 2018, 8, 17583.	3.3	87
40	Three-dimensional stress constraint in an elastic plate with a notch. <i>International Journal of Solids and Structures</i> , 2002, 39, 4311-4326.	2.7	86
41	Synergism of binary carbon nanofibres and graphene nanoplates in improving sensitivity and stability of stretchable strain sensors. <i>Composites Science and Technology</i> , 2019, 172, 7-16.	7.8	86
42	Improving the bending strength and energy absorption of corrugated sandwich composite structure. <i>Materials & Design</i> , 2013, 52, 767-773.	5.1	85
43	Biocompatible and Highly Stretchable PVA/AgNWs Hydrogel Strain Sensors for Human Motion Detection. <i>Advanced Materials Technologies</i> , 2020, 5, 2000426.	5.8	83
44	Aerogels based on carbon nanomaterials. <i>Journal of Materials Science</i> , 2016, 51, 9157-9189.	3.7	82
45	Life Prediction Techniques for Variable Amplitude Multiaxial Fatigue—Part 2: Comparison With Experimental Results. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1996, 118, 371-374.	1.4	81
46	Multi-scale toughening of fibre composites using carbon nanofibres and z-pins. <i>Composites Science and Technology</i> , 2016, 131, 98-109.	7.8	81
47	Conductive Polymer Nanocomposites for Stretchable Electronics: Material Selection, Design, and Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43831-43854.	8.0	81
48	Multifunctional properties of epoxy nanocomposites reinforced by aligned nanoscale carbon. <i>Materials and Design</i> , 2016, 94, 554-564.	7.0	80
49	Plastic yielding of a film adhesive under multiaxial stresses. <i>International Journal of Adhesion and Adhesives</i> , 2000, 20, 155-164.	2.9	79
50	Mindlin plate theory for damage detection: Source solutions. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 154-171.	1.1	78
51	Fatigue crack growth in adhesively bonded composite-metal double-lap joints. <i>Composite Structures</i> , 2002, 57, 109-115.	5.8	76
52	Wave reflection and transmission in beams containing delamination and inhomogeneity. <i>Journal of Sound and Vibration</i> , 2003, 264, 851-872.	3.9	76
53	Multifunctional Polymer Nanocomposites Reinforced by Aligned Carbon Nanomaterials. <i>Polymers</i> , 2018, 10, 542.	4.5	74
54	Magnetic and Conductive Liquid Metal Gels. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20119-20128.	8.0	73

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55	The influence of cross-sectional thickness on fatigue crack growth. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1999, 22, 437-444.	3.4	72
56	Energy Storage Structural Composites with Integrated Lithium-Ion Batteries: A Review. <i>Advanced Materials Technologies</i> , 2021, 6, 2001059.	5.8	71
57	Analytical and finite element prediction of Lamb wave scattering at delaminations in quasi-isotropic composite laminates. <i>Journal of Sound and Vibration</i> , 2012, 331, 4870-4883.	3.9	70
58	Wireless strain measurement using circular microstrip patch antennas. <i>Sensors and Actuators A: Physical</i> , 2012, 184, 86-92.	4.1	70
59	Three-dimensional linear elastic distributions of stress and strain energy density ahead of V-shaped notches in plates of arbitrary thickness. <i>International Journal of Fracture</i> , 2004, 127, 265-282.	2.2	69
60	Optimum shapes of scarf repairs. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 1407-1418.	7.6	69
61	Magnetic and mechanical properties of polyvinyl alcohol (PVA) nanocomposites with hybrid nanofillers of Graphene oxide tethered with magnetic Fe ₃ O ₄ nanoparticles. <i>Chemical Engineering Journal</i> , 2014, 237, 462-468.	12.7	68
62	Effects of bondline flaws on the damage tolerance of composite scarf joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 55, 110-119.	7.6	67
63	Healing of carbon fibre-epoxy composites using thermoplastic additives. <i>Polymer Chemistry</i> , 2013, 4, 5007.	3.9	67
64	A Review of Passive Wireless Sensors for Structural Health Monitoring. <i>Modern Applied Science</i> , 2013, 7, .	0.6	67
65	Wearable Sensors for Remote Health Monitoring: Potential Applications for Early Diagnosis of Covid-19. <i>Advanced Materials Technologies</i> , 2022, 7, 2100545.	5.8	67
66	Scattering of plate waves by a cylindrical inhomogeneity. <i>Journal of Sound and Vibration</i> , 2005, 282, 429-451.	3.9	66
67	Toughening and self-healing of epoxy matrix laminates using mendable polymer stitching. <i>Composites Science and Technology</i> , 2012, 72, 1396-1401.	7.8	66
68	Multimodal Capacitive and Piezoresistive Sensor for Simultaneous Measurement of Multiple Forces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22179-22190.	8.0	66
69	Higher harmonic generation of guided waves at delaminations in laminated composite beams. <i>Structural Health Monitoring</i> , 2017, 16, 400-417.	7.5	65
70	Compact solutions for the corner singularity in bonded lap joints. <i>International Journal of Adhesion and Adhesives</i> , 2000, 20, 145-154.	2.9	64
71	Stretchable strain sensors based on PDMS composites with cellulose sponges containing one- and two-dimensional nanocarbons. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 90-100.	4.1	62
72	Synergies of vertical graphene and manganese dioxide in enhancing the energy density of carbon fibre-based structural supercapacitors. <i>Composites Science and Technology</i> , 2021, 201, 108568.	7.8	62

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73	Self-healing of delamination fatigue cracks in carbon fibre-epoxy laminate using mendable thermoplastic. <i>Journal of Materials Science</i> , 2012, 47, 4449-4456.	3.7	60
74	Fatigue and fracture behavior of laser clad repair of AerMet® 100 ultra-high strength steel. <i>International Journal of Fatigue</i> , 2016, 85, 18-30.	5.7	60
75	Hierarchically structured electrodes for moldable supercapacitors by synergistically hybridizing vertical graphene nanosheets and MnO ₂ . <i>Carbon</i> , 2021, 172, 272-282.	10.3	59
76	Multifunctional magneto-polymer matrix composites for electromagnetic interference suppression, sensors and actuators. <i>Progress in Materials Science</i> , 2021, 115, 100705.	32.8	58
77	Fracture of interface cracks under combined loading. <i>Engineering Fracture Mechanics</i> , 1997, 56, 77-86.	4.3	57
78	On the Glinka and Neuber methods for calculating notch tip strains under cyclic load spectra. <i>International Journal of Fatigue</i> , 2000, 22, 743-755.	5.7	56
79	Experimental investigation of damage progression and strength of countersunk composite joints. <i>Composite Structures</i> , 2012, 94, 865-873.	5.8	56
80	Multi-scale toughening of epoxy composites via electric field alignment of carbon nanofibres and short carbon fibres. <i>Composites Science and Technology</i> , 2018, 167, 115-125.	7.8	56
81	Enhancing fatigue resistance and damage characterisation in adhesively-bonded composite joints by carbon nanofibres. <i>Composites Science and Technology</i> , 2017, 149, 116-126.	7.8	55
82	Mindlin plate theory for damage detection: Imaging of flexural inhomogeneities. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 754-763.	1.1	54
83	Aligning carbon nanofibres in glass-fibre/epoxy composites to improve interlaminar toughness and crack-detection capability. <i>Composites Science and Technology</i> , 2017, 152, 46-56.	7.8	54
84	High-performance hierarchical MnO ₂ /CNT electrode for multifunctional supercapacitors. <i>Carbon</i> , 2021, 184, 504-513.	10.3	54
85	A crack bridging model for bonded plates subjected to tension and bending. <i>International Journal of Solids and Structures</i> , 1999, 36, 1985-2014.	2.7	53
86	Scaling parameter for fatigue delamination growth in composites under varying load ratios. <i>Composites Science and Technology</i> , 2015, 120, 39-48.	7.8	53
87	THE EFFECT OF PLY ORIENTATION ON THE PERFORMANCE OF ANTENNAS IN OR ON CARBON FIBER COMPOSITES. <i>Progress in Electromagnetics Research</i> , 2011, 116, 123-136.	4.4	52
88	Deformation and fracture of Macadamia nuts. <i>International Journal of Fracture</i> , 1995, 69, 67-85.	2.2	50
89	Determination of triaxial stresses in bonded joints. <i>International Journal of Adhesion and Adhesives</i> , 1997, 17, 17-25.	2.9	50
90	Effect of transformation volume contraction on the toughness of superelastic shape memory alloys. <i>Smart Materials and Structures</i> , 2002, 11, 947-955.	3.5	50

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91	Theoretical modelling of the effect of plasticity on reverse transformation in superelastic shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 354, 146-157.	5.6	50
92	Healing of carbon fibre-epoxy composite T-joints using mendable polymer fibre stitching. <i>Composites Part B: Engineering</i> , 2013, 45, 1499-1507.	12.0	50
93	Nanosilica-toughened polymer adhesives. <i>Materials & Design</i> , 2014, 61, 75-86.	5.1	50
94	Active control of a flexible smart beam using a system identification technique based on ARMAX. <i>Smart Materials and Structures</i> , 2003, 12, 845-850.	3.5	49
95	Carbon fiber reinforced Zn-MnO ₂ structural composite batteries. <i>Composites Science and Technology</i> , 2021, 209, 108787.	7.8	49
96	Electrospun liquid metal/PVDF-HFP nanofiber membranes with exceptional triboelectric performance. <i>Nano Energy</i> , 2022, 92, 106713.	16.0	49
97	THE EFFECT OF MEAN SHEAR STRESS ON TORSIONAL FATIGUE BEHAVIOUR. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1991, 14, 293-307.	3.4	47
98	Numerical analysis of damage progression and strength of countersunk composite joints. <i>Composite Structures</i> , 2012, 94, 643-653.	5.8	47
99	Interaction of laminate damage and adhesive disbonding in composite scarf joints subjected to combined in-plane loading and impact. <i>Composite Structures</i> , 2012, 94, 945-953.	5.8	47
100	Thermoplastic Healing in Epoxy Networks: Exploring Performance and Mechanism of Alternative Healing Agents. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 1232-1242.	3.6	47
101	Sensitivity and optimisation of the Chaboche plasticity model parameters in strain-life fatigue predictions. <i>Materials and Design</i> , 2017, 118, 107-121.	7.0	47
102	Recent developments of hybrid piezo-triboelectric nanogenerators for flexible sensors and energy harvesters. <i>Nanoscale Advances</i> , 2021, 3, 5465-5486.	4.6	47
103	Mechanical properties of mendable composites containing self-healing thermoplastic agents. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 65, 10-18.	7.6	46
104	Bumblebees minimize control challenges by combining active and passive modes in unsteady winds. <i>Scientific Reports</i> , 2016, 6, 35043.	3.3	46
105	Multi-modal strain and temperature sensor by hybridizing reduced graphene oxide and PEDOT:PSS. <i>Composites Science and Technology</i> , 2020, 187, 107959.	7.8	46
106	Fundamental solutions for the generalised plane strain theory. <i>International Journal of Engineering Science</i> , 2002, 40, 1775-1790.	5.0	45
107	A review of toroidal composite pressure vessel optimisation and damage tolerant design for high-pressure gaseous fuel storage. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22067-22089.	7.1	44
108	Ultrasonic detection and sizing of compressed cracks in glass- and carbon-fibre reinforced plastic composites. <i>NDT and E International</i> , 2017, 92, 111-121.	3.7	44

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109	Delamination toughening and healing performance of woven composites with hybrid z-fibre reinforcement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 110, 258-267.	7.6	44
110	Mechanically stretchable piezoelectric polyvinylidene fluoride (PVDF)/Boron nitride nanosheets (BNNSs) polymer nanocomposites. <i>Composites Part B: Engineering</i> , 2019, 175, 107157.	12.0	43
111	A vertical graphene enhanced ZnMnO ₂ flexible battery towards wearable electronic devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 575-584.	10.3	43
112	A novel route for tethering graphene with iron oxide and its magnetic field alignment in polymer nanocomposites. <i>Polymer</i> , 2016, 97, 273-284.	3.8	42
113	Analysis of out-of-plane bending in one-sided bonded repair. <i>International Journal of Solids and Structures</i> , 1998, 35, 1653-1675.	2.7	41
114	Ultrasonic activation of mendable polymer for self-healing carbon epoxy laminates. <i>Composites Part B: Engineering</i> , 2013, 45, 1031-1039.	12.0	41
115	Rapidly cured epoxy/anhydride composites: Effect of residual stress on laminate shear strength. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 125-136.	7.6	41
116	Quantitative fractography and modelling of fatigue crack propagation in high strength AerMet®100 steel repaired with a laser cladding process. <i>International Journal of Fatigue</i> , 2017, 94, 288-301.	5.7	41
117	Stepped Flush Repairs for Primary Composite Structures. <i>Journal of Adhesion</i> , 2015, 91, 95-112.	3.0	39
118	Fracture and fatigue behaviour of epoxy nanocomposites containing 1-D and 2-D nanoscale carbon fillers. <i>Engineering Fracture Mechanics</i> , 2018, 203, 102-114.	4.3	37
119	Effect of mendable polymer stitch density on the toughening and healing of delamination cracks in carbon epoxy laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 50, 22-30.	7.6	36
120	The electric field alignment of short carbon fibres to enhance the toughness of epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 106, 11-23.	7.6	36
121	A novel indirect-drive regenerative shock absorber for energy harvesting and comparison with a conventional direct-drive regenerative shock absorber. <i>Applied Energy</i> , 2018, 229, 111-127.	10.1	36
122	Synergistic delamination toughening of composites using multi-scale carbon reinforcements. <i>Composites Part B: Engineering</i> , 2019, 161, 18-28.	12.0	36
123	Enhancing output performance of PVDF-HFP fiber-based nanogenerator by hybridizing silver nanowires and perovskite oxide nanocrystals. <i>Nano Energy</i> , 2022, 98, 107343.	16.0	35
124	An extended diffraction tomography method for quantifying structural damage using numerical Green's functions. <i>Ultrasonics</i> , 2015, 59, 1-13.	3.9	34
125	Residual strength of composite laminates containing scarfed and straight-sided holes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1951-1961.	7.6	33
126	Synergistic mode II delamination toughening of composites using multi-scale carbon-based reinforcements. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 117, 103-115.	7.6	33

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127	Highly sensitive, stretchable and durable strain sensors based on conductive double-network polymer hydrogels. <i>Journal of Polymer Science</i> , 2020, 58, 3069-3081.	3.8	33
128	Nano-toughening of transparent wearable sensors with high sensitivity and a wide linear sensing range. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20531-20542.	10.3	33
129	THE EFFECTS OF MEAN AND ALTERNATING SHEAR STRESSES ON SHORT FATIGUE CRACK GROWTH RATES. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1992, 15, 1223-1236.	3.4	32
130	Closure of plane-strain cracks under large-scale yielding conditions. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2002, 25, 127-139.	3.4	32
131	Modelling mechanical properties of core-shell rubber-modified epoxies. <i>Acta Materialia</i> , 2000, 48, 579-586.	7.9	31
132	Improved Near-Field Radar Cross-Section Measurement Technique. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009, 8, 1103-1106.	4.0	31
133	Bonded repairs for carbon/BMI composite at high operating temperatures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 902-912.	7.6	31
134	The effect of dual-scale carbon fibre network on sensitivity and stretchability of wearable sensors. <i>Composites Science and Technology</i> , 2018, 165, 131-139.	7.8	31
135	Deformation and fracture of Macadamia nuts. <i>International Journal of Fracture</i> , 1995, 69, 51-65.	2.2	30
136	Internal resistance heating for homogeneous curing of adhesively bonded repairs. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 168-176.	2.9	30
137	Low-temperature plasma assisted growth of vertical graphene for enhancing carbon fibre/epoxy interfacial strength. <i>Composites Science and Technology</i> , 2019, 184, 107867.	7.8	30
138	Surface functionalisation of carbon nanofiber and barium titanate by polydopamine to enhance the energy storage density of their nanocomposites. <i>Composites Part B: Engineering</i> , 2019, 178, 107459.	12.0	30
139	Graphene platelets versus phosphorus compounds for elastomeric composites: flame retardancy, mechanical performance and mechanisms. <i>Nanotechnology</i> , 2019, 30, 385703.	2.6	30
140	Toughening polymer adhesives using nanosized elastomeric particles. <i>Journal of Materials Research</i> , 2014, 29, 665-674.	2.6	29
141	Closed crack imaging using time reversal method based on fundamental and second harmonic scattering. <i>Wave Motion</i> , 2016, 66, 156-176.	2.0	29
142	Hierarchical mode I and mode II interlaminar toughening of Z-pinned composites using 1D and 2D carbon nanofillers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 124, 105470.	7.6	29
143	Self-similar analysis of plasticity-induced closure of small fatigue cracks. <i>Journal of the Mechanics and Physics of Solids</i> , 2001, 49, 401-429.	4.8	28
144	Effect of interface modification on PMMA/graphene nanocomposites. <i>Journal of Materials Science</i> , 2014, 49, 5838-5849.	3.7	28

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145	Transparent, stretchable and high-performance triboelectric nanogenerator based on dehydration-free ionically conductive solid polymer electrode. <i>Nano Energy</i> , 2021, 88, 106289.	16.0	28
146	Ply-interleaving technique for joining hybrid carbon/glass fibre composite materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 84, 134-146.	7.6	27
147	Phase structure dependence of magnetic behaviour in iron oxide nanorods. <i>Materials and Design</i> , 2020, 185, 108241.	7.0	27
148	A comparison and extensions of algorithms for quantitative imaging of laminar damage in plates. I. Point spread functions and near field imaging. <i>Wave Motion</i> , 2015, 58, 222-243.	2.0	26
149	Development of flame-retarding elastomeric composites with high mechanical performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 257-266.	7.6	26
150	Fracture Analysis of Cracked Macadamia Nutshells under Contact Load between Two Rigid Plates. <i>Biosystems Engineering</i> , 1999, 74, 243-250.	0.4	25
151	Computerized time-reversal method for structural health monitoring. , 2003, 5046, 48.		25
152	The effect of carbon nanofibres on self-healing epoxy/poly(μ -caprolactone) blends. <i>Composites Science and Technology</i> , 2012, 72, 1952-1959.	7.8	25
153	Optimum Design of Composite Sandwich Structures Subjected to Combined Torsion and Bending Loads. <i>Applied Composite Materials</i> , 2012, 19, 315-331.	2.5	25
154	Quality Factor Effect on the Wireless Range of Microstrip Patch Antenna Strain Sensors. <i>Sensors</i> , 2014, 14, 595-605.	3.8	25
155	Healing of fatigue delamination cracks in carbon-epoxy composite using mendable polymer stitching. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 75-86.	2.5	25
156	The answer is blowing in the wind: free flying honeybees can integrate visual and mechano-sensory inputs for making complex foraging decisions. <i>Journal of Experimental Biology</i> , 2016, 219, 3465-3472.	1.7	25
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