

Chun H Wang

List of Publications by Citations

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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.

298 papers	8,987 citations	53 h-index	78 g-index
318 ext. papers	11,083 ext. citations	5.8 avg, IF	6.74 L-index

#	Paper	IF	Citations
298	A synthetic time-reversal imaging method for structural health monitoring. <i>Smart Materials and Structures</i> , 2004 , 13, 415-423	3.4	331
297	Hybrid composite laminates reinforced with glass/carbon woven fabrics for lightweight load bearing structures. <i>Materials & Design</i> , 2012 , 36, 75-80		289
296	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	220
295	Aligning multilayer graphene flakes with an external electric field to improve multifunctional properties of epoxy nanocomposites. <i>Carbon</i> , 2015 , 94, 607-618	10.4	214
294	Novel Electrically Conductive Porous PDMS/Carbon Nanofiber Composites for Deformable Strain Sensors and Conductors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14207-14215	9.5	180
293	Life Prediction Techniques for Variable Amplitude Multiaxial FatiguePart 1: Theories. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1996 , 118, 367-370	1.8	151
292	Strain Sensors with Adjustable Sensitivity by Tailoring the Microstructure of Graphene Aerogel/PDMS Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24853-61	9.5	148
291	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	8.4	144
290	On the design methodology of scarf repairs to composite laminates. <i>Composites Science and Technology</i> , 2008 , 68, 35-46	8.6	115
289	Improving the toughness and electrical conductivity of epoxy nanocomposites by using aligned carbon nanofibres. <i>Composites Science and Technology</i> , 2015 , 117, 146-158	8.6	114
288	Development of polymer composites using modified, high-structural integrity graphene platelets. <i>Composites Science and Technology</i> , 2014 , 91, 82-90	8.6	113
287	MXene/chitosan nanocoating for flexible polyurethane foam towards remarkable fire hazards reductions. <i>Journal of Hazardous Materials</i> , 2020 , 381, 120952	12.8	112
286	Out-of-plane crashworthiness of bio-inspired self-similar regular hierarchical honeycombs. <i>Composite Structures</i> , 2016 , 144, 1-13	5.3	109
285	Phase morphology of nanofibre interlayers: Critical factor for toughening carbon/epoxy composites. <i>Composites Science and Technology</i> , 2012 , 72, 256-262	8.6	103
284	Processable 3-nm thick graphene platelets of high electrical conductivity and their epoxy composites. <i>Nanotechnology</i> , 2014 , 25, 125707	3.4	96
283	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	8.4	89
282	Improved design methods for scarf repairs to highly strained composite aircraft structure. <i>Composite Structures</i> , 2006 , 75, 132-144	5.3	88

281	Recent Advances in Fiber-Shaped Supercapacitors and Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e1902779	24	83
280	Crushing analysis for novel bio-inspired hierarchical circular structures subjected to axial load. <i>International Journal of Mechanical Sciences</i> , 2018 , 140, 407-431	5.5	81
279	Crashworthiness design of novel hierarchical hexagonal columns. <i>Composite Structures</i> , 2018 , 194, 36-48	5.3	77
278	Ultrasensitive and Stretchable Strain Sensors Based on Mazelike Vertical Graphene Network. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36312-36322	9.5	77
277	Three-dimensional stress constraint in an elastic plate with a notch. <i>International Journal of Solids and Structures</i> , 2002 , 39, 4311-4326	3.1	76
276	Epoxy nanocomposites containing magnetite-carbon nanofibers aligned using a weak magnetic field. <i>Polymer</i> , 2015 , 68, 25-34	3.9	75
275	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	8.4	75
274	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	8.4	72
273	Crashworthiness behavior of Koch fractal structures. <i>Materials and Design</i> , 2018 , 144, 229-244	8.1	69
272	Plastic yielding of a film adhesive under multiaxial stresses. <i>International Journal of Adhesion and Adhesives</i> , 2000 , 20, 155-164	3.4	69
271	Improving the bending strength and energy absorption of corrugated sandwich composite structure. <i>Materials & Design</i> , 2013 , 52, 767-773		68
270	Mindlin plate theory for damage detection: Source solutions. <i>Journal of the Acoustical Society of America</i> , 2004 , 116, 154-171	2.2	68
269	Fatigue crack growth in adhesively bonded composite-metal double-lap joints. <i>Composite Structures</i> , 2002 , 57, 109-115	5.3	67
268	Two-birds-one-stone: multifunctional supercapacitors beyond traditional energy storage. <i>Energy and Environmental Science</i> , 2021 , 14, 1854-1896	35.4	67
267	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	2.3	65
266	Wave reflection and transmission in beams containing delamination and inhomogeneity. <i>Journal of Sound and Vibration</i> , 2003 , 264, 851-872	3.9	64
265	Multifunctional properties of epoxy nanocomposites reinforced by aligned nanoscale carbon. <i>Materials and Design</i> , 2016 , 94, 554-564	8.1	63
264	Wireless strain measurement using circular microstrip patch antennas. <i>Sensors and Actuators A: Physical</i> , 2012 , 184, 86-92	3.9	62

263	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	1.8	62
262	Aerogels based on carbon nanomaterials. <i>Journal of Materials Science</i> , 2016 , 51, 9157-9189	4.3	61
261	Crashworthiness of bionic fractal hierarchical structures. <i>Materials and Design</i> , 2018 , 158, 147-159	8.1	61
260	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	60
259	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	9.5	59
258	Scattering of plate waves by a cylindrical inhomogeneity. <i>Journal of Sound and Vibration</i> , 2005 , 282, 429-451	4.5	59
257	Recent advances in rational design of polymer nanocomposite dielectrics for energy storage. <i>Nano Energy</i> , 2020 , 74, 104844	17.1	58
256	Multi-scale toughening of fibre composites using carbon nanofibres and z-pins. <i>Composites Science and Technology</i> , 2016 , 131, 98-109	8.6	57
255	Rational Design of Ultrasensitive Pressure Sensors by Tailoring Microscopic Features. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800403	4.6	56
254	Magnetic and mechanical properties of polyvinyl alcohol (PVA) nanocomposites with hybrid nanofillers [Graphene oxide tethered with magnetic Fe ₃ O ₄ nanoparticles]. <i>Chemical Engineering Journal</i> , 2014 , 237, 462-468	14.7	55
253	Compact solutions for the corner singularity in bonded lap joints. <i>International Journal of Adhesion and Adhesives</i> , 2000 , 20, 145-154	3.4	55
252	Waste-derived low-cost mycelium composite construction materials with improved fire safety. <i>Fire and Materials</i> , 2018 , 42, 816-825	1.8	55
251	Optimum shapes of scarf repairs. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 1407-1418	4.1	54
250	Fracture of interface cracks under combined loading. <i>Engineering Fracture Mechanics</i> , 1997 , 56, 77-86	4.2	54
249	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	54
248	Self-healing of delamination fatigue cracks in carbon fibre/epoxy laminate using mendable thermoplastic. <i>Journal of Materials Science</i> , 2012 , 47, 4449-4456	4.3	53
247	Toughening and self-healing of epoxy matrix laminates using mendable polymer stitching. <i>Composites Science and Technology</i> , 2012 , 72, 1396-1401	8.6	53
246	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	8.6	53

245	Liquid Metal Droplet and Graphene Co-Fillers for Electrically Conductive Flexible Composites. <i>Small</i> , 2020 , 16, e1903753	11	53
244	Multifunctional Polymer Nanocomposites Reinforced by Aligned Carbon Nanomaterials. <i>Polymers</i> , 2018 , 10,	4.5	52
243	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	8.4	52
242	A Review on Additive Manufacturing of Shape-Memory Materials for Biomedical Applications. <i>Jom</i> , 2020 , 72, 1229-1253	2.1	50
241	Healing of carbon fibre/epoxy composites using thermoplastic additives. <i>Polymer Chemistry</i> , 2013 , 4, 5007	4.9	50
240	A Review of Passive Wireless Sensors for Structural Health Monitoring. <i>Modern Applied Science</i> , 2013 , 7,	1.3	50
239	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	49
238	Multifunctional MXene/natural rubber composite films with exceptional flexibility and durability. <i>Composites Part B: Engineering</i> , 2020 , 188, 107875	10	48
237	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	48
236	Higher harmonic generation of guided waves at delaminations in laminated composite beams. <i>Structural Health Monitoring</i> , 2017 , 16, 400-417	4.4	46
235	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	3.9	45
234	Thermal Degradation and Fire Properties of Fungal Mycelium and Mycelium - Biomass Composite Materials. <i>Scientific Reports</i> , 2018 , 8, 17583	4.9	45
233	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	5.3	44
232	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	8.6	43
231	Healing of carbon fibre/epoxy composite T-joints using mendable polymer fibre stitching. <i>Composites Part B: Engineering</i> , 2013 , 45, 1499-1507	10	43
230	Effect of transformation volume contraction on the toughness of superelastic shape memory alloys. <i>Smart Materials and Structures</i> , 2002 , 11, 947-955	3.4	43
229	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	8.4	43
228	Scaling parameter for fatigue delamination growth in composites under varying load ratios. <i>Composites Science and Technology</i> , 2015 , 120, 39-48	8.6	42

227	Strategies for Designing Stretchable Strain Sensors and Conductors. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900908	6.8	42
226	Experimental investigation of damage progression and strength of countersunk composite joints. <i>Composite Structures</i> , 2012 , 94, 865-873	5.3	42
225	Mindlin plate theory for damage detection: imaging of flexural inhomogeneities. <i>Journal of the Acoustical Society of America</i> , 2010 , 127, 754-63	2.2	42
224	Determination of triaxial stresses in bonded joints. <i>International Journal of Adhesion and Adhesives</i> , 1997 , 17, 17-25	3.4	42
223	Fundamental solutions for the generalised plane strain theory. <i>International Journal of Engineering Science</i> , 2002 , 40, 1775-1790	5.7	41
222	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	8.6	40
221	Enhancing fatigue resistance and damage characterisation in adhesively-bonded composite joints by carbon nanofibres. <i>Composites Science and Technology</i> , 2017 , 149, 116-126	8.6	40
220	Deformation and fracture of Macadamia nuts. <i>International Journal of Fracture</i> , 1995 , 69, 67-85	2.3	40
219	Magnetic and Conductive Liquid Metal Gels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20119-20128	3.9	40
218	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	5.3	39
217	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	3.4	39
216	A crack bridging model for bonded plates subjected to tension and bending. <i>International Journal of Solids and Structures</i> , 1999 , 36, 1985-2014	3.1	39
215	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	39
214	Thermoplastic Healing in Epoxy Networks: Exploring Performance and Mechanism of Alternative Healing Agents. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 1232-1242	3.9	38
213	Numerical analysis of damage progression and strength of countersunk composite joints. <i>Composite Structures</i> , 2012 , 94, 643-653	5.3	38
212	Recent advances in carbon-based nanomaterials for flame retardant polymers and composites. <i>Composites Part B: Engineering</i> , 2021 , 212, 108675	10	38
211	Mechanical properties of mendable composites containing self-healing thermoplastic agents. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 65, 10-18	8.4	37
210	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	9.5	37

209	Nanosilica-toughened polymer adhesives. <i>Materials & Design</i> , 2014 , 61, 75-86		36
208	Biocompatible and Highly Stretchable PVA/AgNWs Hydrogel Strain Sensors for Human Motion Detection. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000426	6.8	36
207	Sensitivity and optimisation of the Chaboche plasticity model parameters in strain-life fatigue predictions. <i>Materials and Design</i> , 2017 , 118, 107-121	8.1	35
206	Ultrasonic activation of mendable polymer for self-healing carbon/epoxy laminates. <i>Composites Part B: Engineering</i> , 2013 , 45, 1031-1039	10	34
205	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	3.8	34
204	Multimodal Capacitive and Piezoresistive Sensor for Simultaneous Measurement of Multiple Forces. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22179-22190	9.5	32
203	Stepped Flush Repairs for Primary Composite Structures 2015 , 91, 95-112		31
202	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	4.1	30
201	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	30
200	A novel route for tethering graphene with iron oxide and its magnetic field alignment in polymer nanocomposites. <i>Polymer</i> , 2016 , 97, 273-284	3.9	30
199	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	8.4	30
198	Mechanically stretchable piezoelectric polyvinylidene fluoride (PVDF)/Boron nitride nanosheets (BNNs) polymer nanocomposites. <i>Composites Part B: Engineering</i> , 2019 , 175, 107157	10	29
197	Residual strength of composite laminates containing scarfed and straight-sided holes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 1951-1961	8.4	29
196	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	8.4	29
195	Bumblebees minimize control challenges by combining active and passive modes in unsteady winds. <i>Scientific Reports</i> , 2016 , 6, 35043	4.9	28
194	An extended diffraction tomography method for quantifying structural damage using numerical Green's functions. <i>Ultrasonics</i> , 2015 , 59, 1-13	3.5	28
193	Effect of interface modification on PMMA/graphene nanocomposites. <i>Journal of Materials Science</i> , 2014 , 49, 5838-5849	4.3	27
192	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	8.4	27

191	Bonded repairs for carbon/BMI composite at high operating temperatures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 902-912	8.4	27
190	Analysis of out-of-plane bending in one-sided bonded repair. <i>International Journal of Solids and Structures</i> , 1998 , 35, 1653-1675	3.1	27
189	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	27
188	Hierarchically structured electrodes for moldable supercapacitors by synergistically hybridizing vertical graphene nanosheets and MnO ₂ . <i>Carbon</i> , 2021 , 172, 272-282	10.4	27
187	Modelling mechanical properties of core-shell rubber-modified epoxies. <i>Acta Materialia</i> , 2000 , 48, 579-584	8.4	26
186	Closed crack imaging using time reversal method based on fundamental and second harmonic scattering. <i>Wave Motion</i> , 2016 , 66, 156-176	1.8	26
185	Multifunctional magneto-polymer matrix composites for electromagnetic interference suppression, sensors and actuators. <i>Progress in Materials Science</i> , 2021 , 115, 100705	42.2	26
184	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	8.6	26
183	Toughening polymer adhesives using nanosized elastomeric particles. <i>Journal of Materials Research</i> , 2014 , 29, 665-674	2.5	25
182	Internal resistance heating for homogeneous curing of adhesively bonded repairs. <i>International Journal of Adhesion and Adhesives</i> , 2011 , 31, 168-176	3.4	25
181	Improved Near-Field Radar Cross-Section Measurement Technique. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009 , 8, 1103-1106	3.8	25
180	Multi-modal strain and temperature sensor by hybridizing reduced graphene oxide and PEDOT:PSS. <i>Composites Science and Technology</i> , 2020 , 187, 107959	8.6	25
179	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	4.2	24
178	Quality factor effect on the wireless range of microstrip patch antenna strain sensors. <i>Sensors</i> , 2014 , 14, 595-605	3.8	24
177	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	24
176	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	10	23
175	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	1.8	23
174	Optimum Design of Composite Sandwich Structures Subjected to Combined Torsion and Bending Loads. <i>Applied Composite Materials</i> , 2012 , 19, 315-331	2	23

173	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	8.6	23
172	Deformation and fracture of Macadamia nuts. <i>International Journal of Fracture</i> , 1995 , 69, 51-65	2.3	22
171	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	8.4	22
170	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	6.7	21
169	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	10.7	21
168	The effect of carbon nanofibres on self-healing epoxy/poly(ε-caprolactone) blends. <i>Composites Science and Technology</i> , 2012 , 72, 1952-1959	8.6	21
167	Transient and steady-state deformation at notch root under cyclic loading. <i>Mechanics of Materials</i> , 1998 , 30, 229-241	3.3	21
166	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	5	21
165	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	8.4	21
164	Graphene platelets versus phosphorus compounds for elastomeric composites: flame retardancy, mechanical performance and mechanisms. <i>Nanotechnology</i> , 2019 , 30, 385703	3.4	20
163	Fracture Analysis of Cracked Macadamia Nutshells under Contact Load between Two Rigid Plates. <i>Biosystems Engineering</i> , 1999 , 74, 243-250		20
162	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	2.3	19
161	Analysis of cracks in constrained layers. <i>International Journal of Fracture</i> , 1997 , 83, 1-7	2.3	19
160	Substrate stress concentrations in bonded lap joints. <i>Journal of Strain Analysis for Engineering Design</i> , 1998 , 33, 331-346	1.3	19
159	Filling natural microtubules with triphenyl phosphate for flame-retarding polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 115, 247-254	8.4	19
158	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	8.4	18
157	Stretchable Nanocomposite Conductors Enabled by 3D Segregated Dual-Filler Network. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900060	6.8	18
156	Time reversal invariance for a nonlinear scatterer exhibiting contact acoustic nonlinearity. <i>Journal of Sound and Vibration</i> , 2018 , 417, 413-431	3.9	18

155	Development of flame-retarding elastomeric composites with high mechanical performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 109, 257-266	8.4	18
154	Low-temperature plasma assisted growth of vertical graphene for enhancing carbon fibre/epoxy interfacial strength. <i>Composites Science and Technology</i> , 2019 , 184, 107867	8.6	18
153	Effects of adherend thickness and taper on adhesive bond strength measured by portable pull-off tests. <i>International Journal of Adhesion and Adhesives</i> , 2013 , 44, 259-268	3.4	18
152	The strong diamagnetic behaviour of unidirectional carbon fiber reinforced polymer laminates. <i>Journal of Applied Physics</i> , 2012 , 112, 113921	2.5	18
151	Prediction of short fatigue crack propagation behaviour by characterization of both plasticity and roughness induced crack closures. <i>International Journal of Fatigue</i> , 2002 , 24, 529-536	5	18
150	Synergistic delamination toughening of composites using multi-scale carbon reinforcements. <i>Composites Part B: Engineering</i> , 2019 , 161, 18-28	10	18
149	The gust-mitigating potential of flapping wings. <i>Bioinspiration and Biomimetics</i> , 2016 , 11, 046010	2.6	17
148	Effects of mechanical deformation on electric performance of rechargeable batteries embedded in load carrying composite structures. <i>Plastics, Rubber and Composites</i> , 2014 , 43, 98-104	1.5	17
147	Creep response of woven-fibre composites and the effect of stitching. <i>Composites Science and Technology</i> , 1997 , 57, 91-98	8.6	17
146	Computerized time-reversal method for structural health monitoring 2003 , 5046, 48		17
145	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	13	17
144	Increasing the fatigue resistance of epoxy nanocomposites by aligning graphene nanoplatelets. <i>International Journal of Fatigue</i> , 2018 , 113, 88-97	5	16
143	Ply-interleaving technique for joining hybrid carbon/glass fibre composite materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 84, 134-146	8.4	16
142	Delamination fatigue resistant three-dimensional textile self-healing composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 127, 105626	8.4	16
141	SHORT FATIGUE CRACK GROWTH UNDER MEAN STRESS, UNIAXIAL LOADING. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1993 , 16, 181-198	3	16
140	Phase structure dependence of magnetic behaviour in iron oxide nanorods. <i>Materials and Design</i> , 2020 , 185, 108241	8.1	16
139	Predicting the strength of adhesively bonded joints of variable thickness using a cohesive element approach. <i>International Journal of Adhesion and Adhesives</i> , 2015 , 58, 44-52	3.4	15
138	Effects of temperature on the creep behaviour of woven and stitched composites. <i>Composite Structures</i> , 1997 , 38, 435-445	5.3	15

137	On the fracture of constrained layers. <i>International Journal of Fracture</i> , 1998 , 93, 227-246	2.3	15
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