# Wesley James Cantwell

## List of Publications by Citations



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|---|---|---|---|
| 221 papers | 8,887 citations | 50 h-index | 86 g-index |
| 229 ext. papers | 9,981 ext. citations | 4.6 avg, IF | 6.39 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 221 | The impact resistance of composite materials – a review. *Composites*, **1991**, 22, 347-362 | | 935 |
| 220 | Finite element modelling of the compressive response of lattice structures manufactured using the selective laser melting technique. *International Journal of Mechanical Sciences*, **2013**, 67, 28-41 | 5.5 | 279 |
| 219 | Comparison of the low and high velocity impact response of cfrp. *Composites*, **1989**, 20, 545-551 | | 234 |
| 218 | The quasi-static and blast loading response of lattice structures. *International Journal of Impact Engineering*, **2008**, 35, 795-810 | 4 | 210 |
| 217 | The low velocity impact response of foam-based sandwich structures. *Composites Part B: Engineering*, **2002**, 33, 193-204 | 10 | 180 |
| 216 | The mechanical properties of fibre-metal laminates based on glass fibre reinforced polypropylene. *Composites Science and Technology*, **2000**, 60, 1085-1094 | 8.6 | 172 |
| 215 | Embedded fibre Bragg grating sensors in advanced composite materials. *Composites Science and Technology*, **2001**, 61, 1379-1387 | 8.6 | 168 |
| 214 | The high velocity impact response of composite and FML-reinforced sandwich structures. *Composites Science and Technology*, **2004**, 64, 35-54 | 8.6 | 154 |
| 213 | Impact perforation of carbon fibre reinforced plastic. *Composites Science and Technology*, **1990**, 38, 119-141 | 8.6 | 149 |
| 212 | The mechanical behaviour of corrugated-core sandwich panels. *Composites Part B: Engineering*, **2013**, 47, 267-277 | 10 | 148 |
| 211 | The impact resistance of polypropylene-based fibre–metal laminates. *Composites Science and Technology*, **2006**, 66, 1682-1693 | 8.6 | 148 |
| 210 | The low velocity impact response of an aluminium honeycomb sandwich structure. *Composites Part B: Engineering*, **2003**, 34, 679-687 | 10 | 146 |
| 209 | An evaluation of a novel plastic optical fibre sensor for axial strain and bend measurements. *Measurement Science and Technology*, **2002**, 13, 1523-1534 | 2 | 139 |
| 208 | The significance of damage and defects and their detection in composite materials: A review. *Journal of Strain Analysis for Engineering Design*, **1992**, 27, 29-42 | 1.3 | 120 |
| 207 | Detection of impact damage in CFRP laminates. *Composite Structures*, **1985**, 3, 241-257 | 5.3 | 116 |
| 206 | The fracture properties of a fibre–metal laminate based on magnesium alloy. *Composites Part B: Engineering*, **2005**, 37, 163-170 | 10 | 110 |
| 205 | Geometrical effects in the low velocity impact response of CFRP. *Composite Structures*, **1989**, 12, 39-59 | 5.3 | 108 |

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| 204 | The prediction of tensile failure in titanium-based thermoplastic fibre–metal laminates. *Composites Science and Technology*, **2006**, 66, 2306-2316 | 8.6 | 107 |
| 203 | The low velocity impact response of foam-based sandwich panels. *Composites Science and Technology*, **2012**, 72, 1781-1790 | 8.6 | 102 |
| 202 | The Mechanical Properties of Sandwich Structures Based on Metal Lattice Architectures. *Journal of Sandwich Structures and Materials*, **2010**, 12, 159-180 | 2.1 | 92 |
| 201 | Mechanical properties of a novel fiber–metal laminate based on a polypropylene composite. *Mechanics of Materials*, **2009**, 41, 828-838 | 3.3 | 92 |
| 200 | Behaviour of fibre–metal laminates subjected to localised blast loading: Part I–Experimental observations. *International Journal of Impact Engineering*, **2007**, 34, 1202-1222 | 4 | 92 |
| 199 | An assessment of the impact performance of CFRP reinforced with high-strain carbon fibres. *Composites Science and Technology*, **1986**, 25, 133-148 | 8.6 | 90 |
| 198 | Use of conventional optical fibers and fiber Bragg gratings for damage detection in advanced composite structures: A review. *Applied Mechanics Reviews*, **2003**, 56, 493-513 | 8.6 | 89 |
| 197 | Drawing behaviour of metal–composite sandwich structures. *Composite Structures*, **2006**, 75, 305-312 | 5.3 | 85 |
| 196 | The impact response of graded foam sandwich structures. *Composite Structures*, **2013**, 97, 370-377 | 5.3 | 84 |
| 195 | Interfacial fracture in sandwich laminates. *Composites Science and Technology*, **1999**, 59, 2079-2085 | 8.6 | 79 |
| 194 | The influence of varying projectile mass on the impact response of CFRP. *Composite Structures*, **1989**, 13, 101-114 | 5.3 | 79 |
| 193 | Impact damage initiation in composite materials. *Composites Science and Technology*, **2010**, 70, 336-342 | 8.6 | 77 |
| 192 | Behaviour of fibre metal laminates subjected to localised blast loading–Part II: Quantitative analysis. *International Journal of Impact Engineering*, **2007**, 34, 1223-1245 | 4 | 72 |
| 191 | Numerical modelling of perforation failure in fibre metal laminates subjected to low velocity impact loading. *Composite Structures*, **2011**, 93, 2430-2436 | 5.3 | 71 |
| 190 | The Tensile and Fatigue Properties of Carbon Fiber-reinforced PEEK-Titanium Fiber-metal Laminates. *Journal of Reinforced Plastics and Composites*, **2004**, 23, 1615-1623 | 2.9 | 71 |
| 189 | Stamp forming of polypropylene based fibre–metal laminates: The effect of process variables on formability. *Journal of Materials Processing Technology*, **2006**, 172, 163-168 | 5.3 | 70 |
| 188 | A test technique for assessing core-skin adhesion in composite sandwich structures. *Journal of Materials Science Letters*, **1994**, 13, 203-205 | | 64 |
| 187 | Post-impact fatigue performance of carbon fibre laminates with non-woven and mixed-woven layers. *Composites*, **1983**, 14, 301-305 | | 64 |

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| 186 | Crack detection and vertical deflection monitoring in concrete beams using plastic optical fibre sensors. *Measurement Science and Technology*, **2003**, 14, 205-216 | 2 | 62 |
| 185 | The blast response of novel thermoplastic-based fibre-metal laminates – some preliminary results and observations. *Composites Science and Technology*, **2005**, 65, 861-872 | 8.6 | 62 |
| 184 | The mechanical properties of natural fibre based honeycomb core materials. *Composites Part B: Engineering*, **2014**, 58, 1-9 | 10 | 58 |
| 183 | The Impact Properties of High-temperature Fiber-Metal Laminates. *Journal of Composite Materials*, **2007**, 41, 613-632 | 2.7 | 58 |
| 182 | A study of the delamination resistance of IM6/PEEK composites. *Composites Science and Technology* , **1989**, 36, 153-166 | 8.6 | 56 |
| 181 | Characterisation of aluminium matrix syntactic foams under drop weight impact. *Materials & Design* , **2014**, 59, 296-302 | | 55 |
| 180 | The effect of process temperature on the formability of polypropylene based fibre–metal laminates. *Composites Part A: Applied Science and Manufacturing*, **2005**, 36, 1158-1166 | 8.4 | 55 |
| 179 | The influence of target geometry on the high velocity impact response of CFRP. *Composite Structures*, **1988**, 10, 247-265 | 5.3 | 53 |
| 178 | Prediction of the mechanical properties of micro-lattice structures subjected to multi-axial loading. *International Journal of Mechanical Sciences*, **2013**, 68, 47-55 | 5.5 | 52 |
| 177 | Impact perforation resistance and fracture mechanisms of a thermoplastic based fiber-metal laminate. *Journal of Materials Science Letters*, **2001**, 20, 597-599 | | 52 |
| 176 | Modelling of the low-impulse blast behaviour of fibre–metal laminates based on different aluminium alloys. *Composites Part B: Engineering*, **2013**, 44, 141-151 | 10 | 51 |
| 175 | The influence of core density on the blast resistance of foam-based sandwich structures. *International Journal of Impact Engineering*, **2012**, 50, 9-16 | 4 | 50 |
| 174 | Failure characterisation of blast-loaded fibre–metal laminate panels based on aluminium and glass–fibre reinforced polypropylene. *Composites Science and Technology*, **2007**, 67, 1385-1405 | 8.6 | 50 |
| 173 | Fracture of glass/polypropylene laminates: influence of cooling rate after moulding. *Composites*, **1994**, 25, 869-877 | | 50 |
| 172 | Geometrical effects in the low velocity impact response of GFRP. *Composites Science and Technology*, **2007**, 67, 1900-1908 | 8.6 | 49 |
| 171 | The energy-absorbing characteristics of composite tube-reinforced foam structures. *Composites Part B: Engineering*, **2014**, 61, 127-135 | 10 | 46 |
| 170 | Modelling of perforation failure in fibre metal laminates subjected to high impulsive blast loading. *International Journal of Solids and Structures*, **2014**, 51, 3135-3146 | 3.1 | 46 |
| 169 | Low-impulse blast behaviour of fibre-metal laminates. *Composite Structures*, **2012**, 94, 954-965 | 5.3 | 46 |

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| 168 | Residual strain measurement and impact response of optical fibre Bragg grating sensors in fibre metal laminates. *Smart Materials and Structures*, **2001**, 10, 338-346 | 3.4 | 46 |
| 167 | Parameters determining the strength and toughness of particulate-filled epoxy resins. *Polymer Composites*, **1987**, 8, 314-323 | 3 | 46 |
| 166 | Interfacial fracture of the fibre-metal laminates based on fibre reinforced thermoplastics. *Materials & Design*, **2015**, 66, 446-452 | | 45 |
| 165 | Stretch forming studies on a fibre metal laminate based on a self-reinforcing polypropylene composite. *Composite Structures*, **2012**, 94, 431-437 | 5.3 | 45 |
| 164 | Scaling Effects in the Low Velocity Impact Response of Fiber-Metal Laminates. *Journal of Reinforced Plastics and Composites*, **2008**, 27, 893-907 | 2.9 | 45 |
| 163 | Graphene coated piezo-resistive fabrics for liquid composite molding process monitoring. *Composites Science and Technology*, **2017**, 148, 106-114 | 8.6 | 41 |
| 162 | The mechanical properties of 3D woven composites. *Journal of Composite Materials*, **2017**, 51, 1703-1716 | 2.7 | 41 |
| 161 | In-plane virtual permeability characterization of 3D woven fabrics using a hybrid experimental and numerical approach. *Composites Science and Technology*, **2019**, 173, 99-109 | 8.6 | 40 |
| 160 | Impact on thermoplastic fibre-metal laminates: Experimental observations. *Composite Structures*, **2017**, 159, 800-817 | 5.3 | 40 |
| 159 | THE DAMAGE THRESHOLD OF LAMINATED GLASS STRUCTURES. *International Journal of Impact Engineering*, **1998**, 21, 737-746 | 4 | 39 |
| 158 | Viscoelastic Creep Crack Growth: A Review of Fracture Mechanical Analyses. *Mechanics of Time-Dependent Materials*, **1997**, 1, 241-268 | 1.2 | 38 |
| 157 | The Influence of Strain Rate on the Mode III Interlaminar Fracture of Composite Materials. *Journal of Composite Materials*, **2007**, 41, 2595-2614 | 2.7 | 38 |
| 156 | The effect of cooling rate on deformation and fracture in IM6/PEEK composites. *Composite Structures*, **1990**, 14, 151-171 | 5.3 | 38 |
| 155 | The response of polymeric composite structures to air-blast loading: a state-of-the-art. *International Materials Reviews*, **2014**, 59, 159-177 | 16.1 | 37 |
| 154 | The influence of core properties on the perforation resistance of sandwich structures An experimental study. *Composites Part B: Engineering*, **2012**, 43, 3231-3238 | 10 | 37 |
| 153 | Numerical modeling of the impact response of fiber metal laminates. *Polymer Composites*, **2009**, 30, 603-611 | 3 | 37 |
| 152 | Impact and subsequent fatigue damage growth in carbon fibre laminates. *International Journal of Fatigue*, **1984**, 6, 113-118 | 5 | 37 |
| 151 | The energy-absorbing behaviour of composite tube-reinforced foams. *Composites Part B: Engineering*, **2018**, 139, 227-237 | 10 | 37 |

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| 150 | Application of X-ray computed tomography for the virtual permeability prediction of fiber reinforcements for liquid composite molding processes: A review. *Composites Science and Technology*, **2019**, 184, 107828 | 8.6 | 36 |
| 149 | Transverse permeability of dry fiber preforms manufactured by automated fiber placement. *Composites Science and Technology*, **2017**, 152, 57-67 | 8.6 | 36 |
| 148 | Low-velocity impact performance of lattice structure core based sandwich panels. *Journal of Composite Materials*, **2014**, 48, 3153-3167 | 2.7 | 36 |
| 147 | Measurement of initiation values of GIC in IM6/PEEK composites. *Composites Science and Technology*, **1989**, 35, 301-313 | 8.6 | 36 |
| 146 | Joining and repair of a carbon fibre-reinforced thermoplastic. *Composites*, **1991**, 22, 425-431 | | 36 |
| 145 | The low velocity impact response of curvilinear-core sandwich structures. *International Journal of Impact Engineering*, **2016**, 93, 28-38 | 4 | 35 |
| 144 | Scaling effects in the tensile behavior of fiber-metal laminates. *Composites Science and Technology*, **2007**, 67, 1684-1693 | 8.6 | 34 |
| 143 | The use of plastic optical fibre sensors for monitoring the dynamic response of fibre composite beams. *Measurement Science and Technology*, **2003**, 14, 736-745 | 2 | 34 |
| 142 | The development of a finite element model for simulating the stamp forming of fibre-metal laminates. *Composite Structures*, **2006**, 75, 298-304 | 5.3 | 33 |
| 141 | The response of fibre metal laminate panels subjected to uniformly distributed blast loading. *European Journal of Mechanics, A/Solids*, **2008**, 27, 107-115 | 3.7 | 32 |
| 140 | Forming studies of carbon fibre composite sheets in dome forming processes. *Composite Structures* , **2013**, 97, 310-316 | 5.3 | 31 |
| 139 | The Blast Behavior of Fiber Reinforced Thermoplastic Laminates. *Journal of Composite Materials*, **2008**, 42, 2275-2297 | 2.7 | 31 |
| 138 | The use of plastic optical fibres and shape memory alloys for damage assessment and damping control in composite materials. *Measurement Science and Technology*, **2003**, 14, 1305-1313 | 2 | 31 |
| 137 | High-velocity impact deformation and perforation of fibre metal laminates. *Journal of Materials Science*, **2018**, 53, 4209-4228 | 4.3 | 31 |
| 136 | Investigation of Strain-rate Effects in Self-reinforced Polypropylene Composites. *Journal of Composite Materials*, **2007**, 41, 2457-2470 | 2.7 | 30 |
| 135 | Low-velocity Impact Response of High-performance Aluminum Foam Sandwich Structures. *Journal of Reinforced Plastics and Composites*, **2005**, 24, 1057-1072 | 2.9 | 30 |
| 134 | Autoclave cure simulation of composite structures applying implicit and explicit FE techniques. *International Journal of Mechanics and Materials in Design*, **2013**, 9, 55-63 | 2.5 | 29 |
| 133 | The Influence of Cooling Rate on the Fracture Properties of a Thermoplastic-Based Fibre-Metal Laminate. *Journal of Reinforced Plastics and Composites*, **2002**, 21, 749-772 | 2.9 | 29 |

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| 132 | An experimental and numerical study on scaling effects in the low velocity impact response of CFRP laminates. *Composite Structures*, **2016**, 154, 69-78 | 5.3 | 28 |
| 131 | Plasma Surface Modification of Glass Fibre-Reinforced Nylon-6,6 Thermoplastic Composites for Improved Adhesive Bonding. *Journal of Materials Science*, **2000**, 8, 363-373 | | 28 |
| 130 | Scaling effects in the mechanical response of sandwich structures based on corrugated composite cores. *Composites Part B: Engineering*, **2016**, 93, 88-96 | 10 | 27 |
| 129 | The blast resistance of stitched sandwich panels. *International Journal of Impact Engineering*, **2014**, 65, 137-145 | 4 | 27 |
| 128 | The Response of Honeycomb Core Sandwich Panels, with Aluminum and Composite Face Sheets, to Blast Loading. *Journal of Sandwich Structures and Materials*, **2010**, 12, 733-754 | 2.1 | 27 |
| 127 | Investigation of Scaling Effects in Fiber□Metal Laminates. *Journal of Composite Materials*, **2008**, 42, 865-888 | 2.7 | 27 |
| 126 | The impact response of aluminum foam sandwich structures based on a glass fiber-reinforced polypropylene fiber-metal laminate. *Polymer Composites*, **2004**, 25, 499-509 | 3 | 27 |
| 125 | Structure□properties relations in titanium-based thermoplastic fiber□metal laminates. *Polymer Composites*, **2006**, 27, 264-270 | 3 | 25 |
| 124 | The fabrication and mechanical properties of novel composite lattice structures. *Materials and Design*, **2016**, 91, 286-293 | 8.1 | 24 |
| 123 | The energy-absorbing properties of composite tube-reinforced aluminum honeycomb. *Composite Structures*, **2017**, 176, 630-639 | 5.3 | 24 |
| 122 | Localised blast loading of fibre□metal laminates with a polyamide matrix. *Composites Part B: Engineering*, **2007**, 38, 902-913 | 10 | 24 |
| 121 | The impact resistance of fiber□metal laminates based on glass fiber reinforced polypropylene. *Polymer Composites*, **2006**, 27, 700-708 | 3 | 24 |
| 120 | Understanding the behaviour of fibre metal laminates subjected to localised blast loading. *Composite Structures*, **2006**, 76, 82-87 | 5.3 | 24 |
| 119 | The fracture properties of novel aluminum foam sandwich structures. *Journal of Materials Science Letters*, **2000**, 19, 2205-2208 | | 24 |
| 118 | The energy-absorbing behaviour of foam cores reinforced with composite rods. *Composite Structures*, **2014**, 116, 346-356 | 5.3 | 23 |
| 117 | The Influence of a Fiber-Matrix Coupling Agent on the Properties of a Glass Fiber / Polypropylene GMT. *Journal of Thermoplastic Composite Materials*, **1992**, 5, 304-317 | 1.9 | 22 |
| 116 | The modelling of impact loading on thermoplastic fibre-metal laminates. *Composite Structures*, **2018**, 189, 228-238 | 5.3 | 21 |
| 115 | The effect of moisture and loading rate on the interfacial fracture properties of sandwich structures. *Polymer Composites*, **2002**, 23, 406-417 | 3 | 21 |

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| 114 | Low velocity impact response of novel fiber-reinforced aluminum foam sandwich structures. *Journal of Materials Science Letters*, **2003**, 22, 417-422 | | 21 |
| 113 | Plastic Optical Fibre Sensors for Environmental Monitoring: Biofouling and Strain Applications. *Strain*, **2003**, 39, 115-119 | 1.7 | 21 |
| 112 | Investigation of peel resistance during the fibre placement process. *Journal of Reinforced Plastics and Composites*, **2016**, 35, 275-286 | 2.9 | 20 |
| 111 | Scaling effects in the low velocity impact response of sandwich structures. *Composite Structures*, **2013**, 99, 97-104 | 5.3 | 20 |
| 110 | Experimental and numerical characterization of titanium-based fibre metal laminates. *Composite Structures*, **2020**, 245, 112398 | 5.3 | 19 |
| 109 | Temperature and loading rate effects in the mode II interlaminar fracture behavior of carbon fiber reinforced PEEK. *Polymer Composites*, **2001**, 22, 271-281 | 3 | 19 |
| 108 | Towards a rapid, non-contact shaping method for fibre metal laminates using a laser source. *International Journal of Advanced Manufacturing Technology*, **2010**, 47, 557-565 | 3.2 | 18 |
| 107 | The analysis of the ultimate blast failure modes in fibre metal laminates. *Composites Science and Technology*, **2016**, 135, 1-12 | 8.6 | 18 |
| 106 | The energy-absorbing characteristics of carbon fiber-reinforced epoxy honeycomb structures. *Journal of Composite Materials*, **2019**, 53, 1145-1157 | 2.7 | 18 |
| 105 | The energy-absorption characteristics of metal tube-reinforced polymer foams. *Journal of Sandwich Structures and Materials*, **2015**, 17, 74-94 | 2.1 | 17 |
| 104 | Process monitoring of aluminum-foam sandwich structures based on thermoplastic fibre□metal laminates using fibre Bragg gratings. *Composites Science and Technology*, **2005**, 65, 669-676 | 8.6 | 17 |
| 103 | The Static and Dynamic Response of CFRP-Strengthened Concrete Structures. *Journal of Materials Science Letters*, **1999**, 18, 309-310 | | 17 |
| 102 | An assessment of the residual strength of an impact-damaged carbon fibre reinforced epoxy. *Composite Structures*, **1990**, 14, 303-317 | 5.3 | 17 |
| 101 | Modeling perforation in glass fiber reinforced composites subjected to low velocity impact loading. *Polymer Composites*, **2011**, 32, 1380-1388 | 3 | 16 |
| 100 | Damage monitoring in aluminum-foam sandwich structures based on thermoplastic fibre-metal laminates using fibre Bragg gratings. *Composites Science and Technology*, **2005**, 65, 1800-1807 | 8.6 | 16 |
| 99 | The compressive properties of sandwich structures based on an egg-box core design. *Composites Part B: Engineering*, **2018**, 144, 143-152 | 10 | 15 |
| 98 | The influence of strain-rate on the perforation resistance of fiber metal laminates. *Composite Structures*, **2015**, 125, 247-255 | 5.3 | 15 |
| 97 | The high-velocity impact response of thermoplastic□matrix fibre□metal laminates. *Journal of Strain Analysis for Engineering Design*, **2012**, 47, 432-443 | 1.3 | 15 |

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| 96 | Impact Response Characterization in Composite Plates Experimental Validation. *Applied Composite Materials*, **2010**, 17, 463-472 | 2 | 15 |
| 95 | Adhesive bonding and wettability of plasma treated, glass fiber-reinforced nylon-6,6 composites. *Journal of Materials Science Letters*, **2000**, 19, 1829-1832 | | 15 |
| 94 | Study of the crystal morphology and the deformation behaviour of carbon fibre reinforced PEEK (APC-2). *Composites Science and Technology*, **1992**, 43, 299-306 | 8.6 | 15 |
| 93 | Blast response of aluminium/thermoplastic polyurethane sandwich panels Experimental work and numerical analysis. *International Journal of Impact Engineering*, **2019**, 127, 31-40 | 4 | 15 |
| 92 | Geometrical effects in the impact response of the aluminium honeycomb sandwich structures. *Journal of Reinforced Plastics and Composites*, **2014**, 33, 1148-1157 | 2.9 | 14 |
| 91 | Effect of surface treatment on mode I interlaminar fracture behaviour of plain glass woven fabric composites: Part I. Report of the 2nd round-robin test results. *Composite Interfaces*, **2000**, 7, 227-242 | 2.3 | 14 |
| 90 | Process-induced deformation in U-shaped honeycomb aerospace composite structures. *Composite Structures*, **2020**, 248, 112503 | 5.3 | 14 |
| 89 | An analytical model of the dynamic response of circular composite plates to high-velocity impact. *International Journal of Impact Engineering*, **2015**, 85, 67-82 | 4 | 13 |
| 88 | The effect of annealing on the short and long term behavior of PEEK. *Polymer Bulletin*, **1990**, 24, 657-664 | 2.4 | 13 |
| 87 | Impact damage characterization on jute reinforced composites. *Journal of Materials Science Letters*, **2001**, 20, 477-479 | | 12 |
| 86 | The perforation resistance of glass fibre reinforced PEKK composites. *Polymer Testing*, **2018**, 72, 423-431 | 4.5 | 12 |
| 85 | The mechanical behaviour of spherical egg-box sandwich structures. *Polymer Testing*, **2019**, 78, 105954 | 4.5 | 11 |
| 84 | A numerical study of the energy-absorption characteristics of metal tube-reinforced polymer foams. *Journal of Sandwich Structures and Materials*, **2016**, 18, 597-623 | 2.1 | 11 |
| 83 | Damage initiation in composite materials under off-centre impact loading. *Polymer Testing*, **2018**, 69, 456-461 | 4.5 | 11 |
| 82 | The static and dynamic response of CFRP tube reinforced polyurethane. *Composite Structures*, **2017** , 161, 85-92 | 5.3 | 11 |
| 81 | Delamination from thin starter films in carbon fibre/PEEK composites. *Journal of Materials Science Letters*, **1990**, 9, 1349-1350 | | 11 |
| 80 | Thermal joining of carbon fibre reinforced PEEK laminates. *Composite Structures*, **1990**, 16, 305-321 | 5.3 | 11 |
| 79 | Active control of a smart composite with shape memory alloy sheet using a plastic optical fiber sensor. *Sensors and Actuators A: Physical*, **2013**, 201, 182-187 | 3.9 | 10 |

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| 78 | The morphing properties of a smart fiber metal laminate. *Polymer Composites*, **2008**, 29, 1263-1268 | 3 | 10 |
| 77 | The influence of cooling rate on the fracture properties of a glass reiforced/nylon fiber-metal laminate. *Polymer Composites*, **2002**, 23, 839-851 | 3 | 10 |
| 76 | Dynamic crack propagation in the double-torsion test geometry. *Journal of Materials Science Letters* , **1988**, 7, 976-980 | | 10 |
| 75 | The Low Velocity Impact Response of Nano Modified Composites Manufactured Using Automated Dry Fibre Placement. *Polymers and Polymer Composites*, **2016**, 24, 233-240 | 0.8 | 10 |
| 74 | Processing and out-of-plane properties of composites with embedded graphene paper for EMI shielding applications. *Composites Part A: Applied Science and Manufacturing*, **2020**, 134, 105901 | 8.4 | 10 |
| 73 | The impact response of environmental-friendly sandwich structures. *Journal of Composite Materials* , **2014**, 48, 3083-3090 | 2.7 | 9 |
| 72 | A new test geometry for characterizing skin-core adhesion in thin-skinned sandwich structures. *Journal of Materials Science Letters*, **2000**, 19, 1365-1367 | | 9 |
| 71 | Energy absorption in aluminium honeycomb cores reinforced with carbon fibre reinforced plastic tubes. *Journal of Sandwich Structures and Materials*, **2019**, 21, 2801-2815 | 2.1 | 9 |
| 70 | The energy-absorbing properties of internally reinforced composite-metal cylinders with various diameter-to-thickness ratios. *Journal of Reinforced Plastics and Composites*, **2015**, 34, 731-741 | 2.9 | 8 |
| 69 | The energy-absorbing characteristics of polymer foams reinforced with bamboo tubes. *Journal of Sandwich Structures and Materials*, **2014**, 16, 108-122 | 2.1 | 8 |
| 68 | Interfacial fracture properties of carbon fiber reinforced PEEK/titanium fiber-metal laminates. *Journal of Materials Science Letters*, **2002**, 21, 1819-1823 | | 8 |
| 67 | Healing of cracks in carbon fibre-PEEK composites. *Journal of Materials Science Letters*, **1989**, 8, 1247-1248 | | 8 |
| 66 | The influence of fibre stacking sequence on the high velocity impact response of CFRP. *Journal of Materials Science Letters*, **1988**, 7, 756-758 | | 8 |
| 65 | Analysis of the compression behaviour of different composite lattice designs. *Journal of Composite Materials*, **2018**, 52, 715-729 | 2.7 | 7 |
| 64 | Characterisation of Aluminium Matrix Syntactic Foams Dynamic Loading. *Applied Mechanics and Materials*, **2014**, 564, 449-454 | 0.3 | 7 |
| 63 | Damage characterisation on PP-hemp/aluminium fibre metal laminates using acoustic emission. *Journal of Composite Materials*, **2013**, 47, 2265-2274 | 2.7 | 7 |
| 62 | The Properties of Lattice Structures Manufactured Using Selective Laser Melting. *Advanced Materials Research*, **2012**, 445, 386-391 | 0.5 | 7 |
| 61 | The interfacial fracture toughness of a polyamide-based fiber-metal laminate bonded with an ionomer resin. *Journal of Materials Science Letters*, **2001**, 20, 509-512 | | 7 |

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| 60 | In situprocess monitoring of a thermoplastic-based fibre composite using optical fibre sensors. *Smart Materials and Structures*, **2002**, 11, 840-847 | 3.4 | 7 |
| 59 | Interfacial Fracture in Fibre-Metal Laminates Based on Glass Fibre Reinforced Polypropylene. *Advanced Composites Letters*, **1998**, 7, 096369359800700 | 1.2 | 7 |
| 58 | Thermal bonding of carbon fibre PEEK composites. *Journal of Materials Science Letters*, **1989**, 8, 1035-1039 | | 7 |
| 57 | Multiscale modelling of scaling effects in the impact response of plain woven composites. *Composites Part B: Engineering*, **2020**, 188, 107885 | 10 | 6 |
| 56 | Skin-core debonding in resin-infused sandwich structures. *Polymer Composites*, **2016**, 37, 2974-2981 | 3 | 6 |
| 55 | The crushing characteristics of reinforced Nomex honeycomb. *Journal of Reinforced Plastics and Composites*, **2018**, 37, 1267-1276 | 2.9 | 6 |
| 54 | The fracture properties of a smart fiber metal laminate. *Polymer Composites*, **2007**, 28, 534-544 | 3 | 6 |
| 53 | Fast fracture in epoxy resins. *International Journal of Fracture*, **1987**, 35, R31-R39 | 2.3 | 6 |
| 52 | Creep compaction and CT based permeability measurement of aerospace-grade out-of-life prepregs. *Materials Today Communications*, **2020**, 25, 101419 | 2.5 | 6 |
| 51 | Manufacturing and Performance Evaluation of Carbon Fiber Reinforced Honeycombs. *Journal of Composites Science*, **2019**, 3, 13 | 3 | 5 |
| 50 | The effect of loading rate on the compression properties of carbon fibre-reinforced epoxy honeycomb structures. *Journal of Composite Materials*, **2020**, 54, 2565-2576 | 2.7 | 5 |
| 49 | Skin-core adhesion in high performance sandwich structures. *Journal of Zhejiang University: Science A*, **2014**, 15, 61-67 | 2.1 | 5 |
| 48 | Strain rate effects in the indentation behavior of foam-based sandwich structures. *Journal of Composite Materials*, **2012**, 46, 1191-1199 | 2.7 | 5 |
| 47 | The Influence of Loading Rate on the Mode III Fracture Properties of Adhesively Bonded Composites. *Journal of Reinforced Plastics and Composites*, **2009**, 28, 1999-2012 | 2.9 | 5 |
| 46 | The Influence of Loading Rate on the Mode III Interlaminar Fracture Toughness of Composite/Steel Bi-material Systems. *Journal of Composite Materials*, **2009**, 43, 2255-2268 | 2.7 | 5 |
| 45 | Comparison on Compressive Behaviour of Aluminium Honeycomb and Titanium Alloy Micro Lattice Blocks. *Key Engineering Materials*, **2011**, 462-463, 213-218 | 0.4 | 5 |
| 44 | Deformation behaviour of steel/SRPP fibre metal laminate characterised by evolution of surface strains. *Advances in Aircraft and Spacecraft Science*, **2016**, 3, 61-75 | | 5 |
| 43 | Estimation of Bending Behaviour for Beams Composed of Three-Dimensional Micro-Lattice Cells (Part 1 Based on Numerical Analysis). *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **2013**, 79, 620-632 | | 4 |

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