# Stepan Lomov

## List of Publications by Citations



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|---|---|---|---|
| 343 papers | 11,164 citations | 56 h-index | 91 g-index |
| 356 ext. papers | 12,520 ext. citations | 5.2 avg, IF | 6.62 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 343 | Characterization of mechanical behavior of woven fabrics: Experimental methods and benchmark results. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 1037-1053 | 8.4 | 418 |
| 342 | Meso-FE modelling of textile composites: Road map, data flow and algorithms. *Composites Science and Technology*, **2007**, 67, 1870-1891 | 8.6 | 348 |
| 341 | Influence of carbon nanotube reinforcement on the processing and the mechanical behaviour of carbon fiber/epoxy composites. *Carbon*, **2009**, 47, 2914-2923 | 10.4 | 327 |
| 340 | Virtual textile composites software : Integration with micro-mechanical, permeability and structural analysis. *Composites Science and Technology*, **2005**, 65, 2563-2574 | 8.6 | 304 |
| 339 | Voids in fiber-reinforced polymer composites: A review on their formation, characteristics, and effects on mechanical performance. *Journal of Composite Materials*, **2019**, 53, 1579-1669 | 2.7 | 233 |
| 338 | Interfacial shear strength of a glass fiber/epoxy bonding in composites modified with carbon nanotubes. *Composites Science and Technology*, **2010**, 70, 1346-1352 | 8.6 | 227 |
| 337 | Textile composites: modelling strategies. *Composites Part A: Applied Science and Manufacturing*, **2001**, 32, 1379-1394 | 8.4 | 196 |
| 336 | Experimental determination of the permeability of textiles: A benchmark exercise. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 1157-1168 | 8.4 | 193 |
| 335 | Micro-CT characterization of variability in 3D textile architecture. *Composites Science and Technology*, **2005**, 65, 1920-1930 | 8.6 | 185 |
| 334 | The effect of adding carbon nanotubes to glass/epoxy composites in the fibre sizing and/or the matrix. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 532-538 | 8.4 | 164 |
| 333 | Experimental determination of the permeability of engineering textiles: Benchmark II. *Composites Part A: Applied Science and Manufacturing*, **2014**, 61, 172-184 | 8.4 | 163 |
| 332 | Textile geometry preprocessor for meso-mechanical models of woven composites. *Composites Science and Technology*, **2000**, 60, 2083-2095 | 8.6 | 159 |
| 331 | Full-field strain measurements in textile deformability studies. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 1232-1244 | 8.4 | 149 |
| 330 | A comparative study of tensile properties of non-crimp 3D orthogonal weave and multi-layer plain weave E-glass composites. Part 1: Materials, methods and principal results. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 1134-1143 | 8.4 | 131 |
| 329 | Failure analysis of triaxial braided composite. *Composites Science and Technology*, **2009**, 69, 1372-1380 | 8.6 | 126 |
| 328 | Nesting in textile laminates: geometrical modelling of the laminate. *Composites Science and Technology*, **2003**, 63, 993-1007 | 8.6 | 126 |
| 327 | Carbon composites based on multiaxial multiply stitched preforms. Part 1. Geometry of the preform. *Composites Part A: Applied Science and Manufacturing*, **2002**, 33, 1171-1183 | 8.4 | 125 |

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| 326 | Model of shear of woven fabric and parametric description of shear resistance of glass woven reinforcements. *Composites Science and Technology*, **2006**, 66, 919-933 | 8.6 | 124 |
| 325 | The response of natural fibre composites to ballistic impact by fragment simulating projectiles. *Composite Structures*, **2007**, 77, 232-240 | 5.3 | 122 |
| 324 | Experimental methodology of study of damage initiation and development in textile composites in uniaxial tensile test. *Composites Science and Technology*, **2008**, 68, 2340-2349 | 8.6 | 122 |
| 323 | Cluster analysis of acoustic emission signals for 2D and 3D woven glass/epoxy composites. *Composite Structures*, **2014**, 116, 286-299 | 5.3 | 121 |
| 322 | Quantification of the internal structure and automatic generation of voxel models of textile composites from X-ray computed tomography data. *Composites Part A: Applied Science and Manufacturing*, **2015**, 69, 150-158 | 8.4 | 117 |
| 321 | Full-field strain measurements for validation of meso-FE analysis of textile composites. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 1218-1231 | 8.4 | 114 |
| 320 | A comparative study of tensile properties of non-crimp 3D orthogonal weave and multi-layer plain weave E-glass composites. Part 2: Comprehensive experimental results. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 1144-1157 | 8.4 | 111 |
| 319 | Modelling of permeability of textile reinforcements: lattice Boltzmann method. *Composites Science and Technology*, **2004**, 64, 1069-1080 | 8.6 | 101 |
| 318 | Picture Frame Test of Woven Composite Reinforcements with a Full-Field Strain Registration. *Textile Reseach Journal*, **2006**, 76, 243-252 | 1.7 | 96 |
| 317 | Carbon composites based on multiaxial multiply stitched preforms. Part 3: Biaxial tension, picture frame and compression tests of the preforms. *Composites Part A: Applied Science and Manufacturing* , **2005**, 36, 1188-1206 | 8.4 | 91 |
| 316 | Internal geometry evaluation of non-crimp 3D orthogonal woven carbon fabric composite. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 1301-1311 | 8.4 | 90 |
| 315 | Carbon composites based on multi-axial multi-ply stitched preforms. Part 4. Mechanical properties of composites and damage observation. *Composites Part A: Applied Science and Manufacturing*, **2005**, 36, 1207-1221 | 8.4 | 89 |
| 314 | Quasi-static tensile behavior and damage of carbon/epoxy composite reinforced with 3D non-crimp orthogonal woven fabric. *Mechanics of Materials*, **2013**, 62, 14-31 | 3.3 | 88 |
| 313 | Permeability of textile reinforcements: Simulation, influence of shear and validation. *Composites Science and Technology*, **2008**, 68, 2804-2810 | 8.6 | 85 |
| 312 | Full-field strain measurements at the micro-scale in fiber-reinforced composites using digital image correlation. *Composite Structures*, **2016**, 140, 192-201 | 5.3 | 80 |
| 311 | Hierarchy of Textile Structures and Architecture of Fabric Geometric Models. *Textile Reseach Journal*, **2001**, 71, 534-543 | 1.7 | 80 |
| 310 | Impact and residual after impact properties of carbon fiber/epoxy composites modified with carbon nanotubes. *Composite Structures*, **2014**, 111, 488-496 | 5.3 | 78 |
| 309 | The effect of carbon nanotubes on the damage development in carbon fiber/epoxy composites. *Carbon*, **2011**, 49, 4650-4664 | 10.4 | 75 |

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| 308 | Compression of Woven Reinforcements: A Mathematical Model. *Journal of Reinforced Plastics and Composites*, **2000**, 19, 1329-1350 | 2.9 | 75 |
| 307 | Carbon composites based on multiaxial multiply stitched preforms. Part 2. KES-F characterisation of the deformability of the preforms at low loads. *Composites Part A: Applied Science and Manufacturing*, **2003**, 34, 359-370 | 8.4 | 74 |
| 306 | Local damage in a 5-harness satin weave composite under static tension: Part II Meso-FE modelling. *Composites Science and Technology*, **2010**, 70, 1934-1941 | 8.6 | 73 |
| 305 | Statistical analysis of real and simulated fibre arrangements in unidirectional composites. *Composites Science and Technology*, **2013**, 87, 126-134 | 8.6 | 72 |
| 304 | Study of nesting induced scatter of permeability values in layered reinforcement fabrics. *Composites Part A: Applied Science and Manufacturing*, **2004**, 35, 1407-1418 | 8.4 | 72 |
| 303 | Validation of x-ray microfocus computed tomography as an imaging tool for porous structures. *Review of Scientific Instruments*, **2008**, 79, 013711 | 1.7 | 70 |
| 302 | Optical strain fields in shear and tensile testing of textile reinforcements. *Composites Science and Technology*, **2008**, 68, 807-819 | 8.6 | 70 |
| 301 | Assessment of embedded element technique in meso-FE modelling of fibre reinforced composites. *Composite Structures*, **2014**, 107, 436-446 | 5.3 | 69 |
| 300 | Stochastic framework for quantifying the geometrical variability of laminated textile composites using micro-computed tomography. *Composites Part A: Applied Science and Manufacturing*, **2013**, 44, 122-131 | 8.4 | 69 |
| 299 | Correlation of acoustic emission with optically observed damage in a glass/epoxy woven laminate under tensile loading. *Composite Structures*, **2015**, 123, 45-53 | 5.3 | 67 |
| 298 | Prediction of linear and non-linear behavior of 3D woven composite using mesoscopic voxel models reconstructed from X-ray micro-tomography. *Composite Structures*, **2017**, 179, 568-579 | 5.3 | 67 |
| 297 | Experimental validation of forming simulations of fabric reinforced polymers using an unsymmetrical mould configuration. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 530-539 | 8.4 | 67 |
| 296 | Stress concentrations in an impregnated fibre bundle with random fibre packing. *Composites Science and Technology*, **2013**, 74, 113-120 | 8.6 | 66 |
| 295 | Do high frequency acoustic emission events always represent fibre failure in CFRP laminates?. *Composites Part A: Applied Science and Manufacturing*, **2017**, 103, 230-235 | 8.4 | 61 |
| 294 | A Self Adaptive Global Digital Image Correlation Algorithm. *Experimental Mechanics*, **2015**, 55, 361-378 | 2.6 | 61 |
| 293 | Fatigue behavior of non-crimp 3D orthogonal weave and multi-layer plain weave E-glass reinforced composites. *Composites Science and Technology*, **2010**, 70, 2068-2076 | 8.6 | 61 |
| 292 | Modelling evidence of stress concentration mitigation at the micro-scale in polymer composites by the addition of carbon nanotubes. *Carbon*, **2015**, 82, 184-194 | 10.4 | 60 |
| 291 | Stochastic multi-scale modelling of textile composites based on internal geometry variability. *Computers and Structures*, **2013**, 122, 55-64 | 4.5 | 58 |

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| 290 | Fatigue tensile behavior of carbon/epoxy composite reinforced with non-crimp 3D orthogonal woven fabric. *Composites Science and Technology*, **2011**, 71, 1961-1972 | 8.6 | 58 |
| 289 | Local damage in a 5-harness satin weave composite under static tension: Part I Experimental analysis. *Composites Science and Technology*, **2010**, 70, 1926-1933 | 8.6 | 57 |
| 288 | Permeability prediction for the meso macro coupling in the simulation of the impregnation stage of Resin Transfer Moulding. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 29-35 | 8.4 | 56 |
| 287 | Strain mapping analysis of textile composites. *Optics and Lasers in Engineering*, **2009**, 47, 360-370 | 4.6 | 56 |
| 286 | Interply hybrid composites with carbon fiber reinforced polypropylene and self-reinforced polypropylene. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 927-932 | 8.4 | 54 |
| 285 | Micro-CT analysis of the internal deformed geometry of a non-crimp 3D orthogonal weave E-glass composite reinforcement. *Composites Part B: Engineering*, **2014**, 65, 147-157 | 10 | 53 |
| 284 | Experimental observations and finite element modelling of damage initiation and evolution in carbon/epoxy non-crimp fabric composites. *Engineering Fracture Mechanics*, **2008**, 75, 2751-2766 | 4.2 | 52 |
| 283 | Carbon composites based on multiaxial multiply stitched preforms. Part V: geometry of sheared biaxial fabrics. *Composites Part A: Applied Science and Manufacturing*, **2006**, 37, 103-113 | 8.4 | 51 |
| 282 | Cluster analysis of acoustic emission signals for 2D and 3D woven carbon fiber/epoxy composites. *Journal of Composite Materials*, **2016**, 50, 1921-1935 | 2.7 | 49 |
| 281 | Damage development in woven carbon fiber/epoxy composites modified with carbon nanotubes under tension in the bias direction. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 1635-1644 | 8.4 | 49 |
| 280 | Micro-CT analysis of internal geometry of chopped carbon fiber tapes reinforced thermoplastics. *Composites Part A: Applied Science and Manufacturing*, **2016**, 91, 211-221 | 8.4 | 47 |
| 279 | Internal geometry variability of two woven composites and related variability of the stiffness. *Polymer Composites*, **2012**, 33, 1335-1350 | 3 | 47 |
| 278 | In-plane permeability characterization of engineering textiles based on radial flow experiments: A benchmark exercise. *Composites Part A: Applied Science and Manufacturing*, **2019**, 121, 100-114 | 8.4 | 46 |
| 277 | Local strain in a 5-harness satin weave composite under static tension: Part I Experimental analysis. *Composites Science and Technology*, **2011**, 71, 1171-1179 | 8.6 | 46 |
| 276 | Experimentally validated stochastic geometry description for textile composite reinforcements. *Composites Science and Technology*, **2016**, 122, 122-129 | 8.6 | 44 |
| 275 | Meso-level textile composites simulations: Open data exchange and scripting. *Journal of Composite Materials*, **2014**, 48, 621-637 | 2.7 | 44 |
| 274 | Deformability of a non-crimp 3D orthogonal weave E-glass composite reinforcement. *Composites Science and Technology*, **2012**, 73, 9-18 | 8.6 | 44 |
| 273 | Compressibility of carbon woven fabrics with carbon nanotubes/nanofibres grown on the fibres. *Composites Science and Technology*, **2011**, 71, 315-325 | 8.6 | 44 |

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| 272 | Carbon composites based on multi-axial multi-ply stitched preforms Part 6. Fatigue behaviour at low loads: Stiffness degradation and damage development. *Composites Part A: Applied Science and Manufacturing*, **2007**, 38, 1633-1645 | 8.4 | 44 |
| 271 | Inter-fiber stresses in composites with carbon nanotube grafted and coated fibers. *Composites Science and Technology*, **2015**, 114, 79-86 | 8.6 | 43 |
| 270 | Micro-CT analysis of internal structure of sheared textile composite reinforcement. *Composites Part A: Applied Science and Manufacturing*, **2015**, 73, 45-54 | 8.4 | 43 |
| 269 | Can carbon nanotubes grown on fibers fundamentally change stress distribution in a composite?. *Composites Part A: Applied Science and Manufacturing*, **2014**, 63, 32-34 | 8.4 | 43 |
| 268 | Damage in flax/epoxy quasi-unidirectional woven laminates under quasi-static tension. *Journal of Composite Materials*, **2015**, 49, 403-413 | 2.7 | 42 |
| 267 | Characterization of the dynamic friction of woven fabrics: Experimental methods and benchmark results. *Composites Part A: Applied Science and Manufacturing*, **2014**, 67, 289-298 | 8.4 | 42 |
| 266 | The method of cells and the mechanical properties of textile composites. *Composite Structures*, **2011**, 93, 1290-1299 | 5.3 | 42 |
| 265 | Acoustic emission and damage mode correlation in textile reinforced PPS composites. *Composite Structures*, **2017**, 163, 399-409 | 5.3 | 41 |
| 264 | Numerical modelling of forming of a non-crimp 3D orthogonal weave E-glass composite reinforcement. *Composites Part A: Applied Science and Manufacturing*, **2015**, 72, 207-218 | 8.4 | 41 |
| 263 | Micro-CT measurement of fibre misalignment: Application to carbon/epoxy laminates manufactured in autoclave and by vacuum assisted resin transfer moulding. *Composites Part A: Applied Science and Manufacturing*, **2018**, 104, 14-23 | 8.4 | 41 |
| 262 | Fatigue and post-fatigue behaviour of carbon/epoxy non-crimp fabric composites. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 251-259 | 8.4 | 41 |
| 261 | Experimental and Theoretical Characterization of the Geometry of Two-Dimensional Braided Fabrics. *Textile Reseach Journal*, **2002**, 72, 706-712 | 1.7 | 40 |
| 260 | Influence of fibre misalignment and voids on composite laminate strength. *Journal of Composite Materials*, **2015**, 49, 2887-2896 | 2.7 | 39 |
| 259 | Coupled meso-macro simulation of woven fabric local deformation during draping. *Composites Part A: Applied Science and Manufacturing*, **2019**, 118, 267-280 | 8.4 | 39 |
| 258 | Multi-instrument in-situ damage monitoring in quasi-isotropic CFRP laminates under tension. *Composite Structures*, **2018**, 196, 163-180 | 5.3 | 38 |
| 257 | Computation of permeability of a non-crimp carbon textile reinforcement based on X-ray computed tomography images. *Composites Part A: Applied Science and Manufacturing*, **2016**, 81, 289-295 | 8.4 | 38 |
| 256 | Multi-scale digital image correlation for detection and quantification of matrix cracks in carbon fiber composite laminates in the absence and presence of voids controlled by the cure cycle. *Composites Part B: Engineering*, **2018**, 154, 138-147 | 10 | 38 |
| 255 | A Predictive Model for the Fabric-to-Yarn Bending Stiffness Ratio of a Plain-Woven Set Fabric. *Textile Reseach Journal*, **2000**, 70, 1088-1096 | 1.7 | 38 |

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| 254 | Stress distribution in outer and inner plies of textile laminates and novel boundary conditions for unit cell analysis. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 571-580 | 8.4 | 37 |
| 253 | Drape-ability characterization of textile composite reinforcements using digital image correlation. *Optics and Lasers in Engineering*, **2009**, 47, 343-351 | 4.6 | 37 |
| 252 | Carbon composites based on multi-axial multi-ply stitched preforms. Part 7: Mechanical properties and damage observations in composites with sheared reinforcement. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 1380-1393 | 8.4 | 37 |
| 251 | Pseudo-grain discretization and full Mori Tanaka formulation for random heterogeneous media: Predictive abilities for stresses in individual inclusions and the matrix. *Composites Science and Technology*, **2013**, 87, 86-93 | 8.6 | 36 |
| 250 | Formability of a non-crimp 3D orthogonal weave E-glass composite reinforcement. *Composites Part A: Applied Science and Manufacturing*, **2014**, 61, 76-83 | 8.4 | 36 |
| 249 | Pore network modeling of permeability for textile reinforcements. *Polymer Composites*, **2003**, 24, 344-357 | 3 | 36 |
| 248 | Eliminating the volume redundancy of embedded elements and yarn interpenetrations in meso-finite element modelling of textile composites. *Computers and Structures*, **2015**, 152, 142-154 | 4.5 | 35 |
| 247 | Stress magnification due to carbon nanotube agglomeration in composites. *Composite Structures*, **2015**, 133, 246-256 | 5.3 | 34 |
| 246 | Fatigue and post-fatigue stress–strain analysis of a 5-harness satin weave carbon fibre reinforced composite. *Composites Science and Technology*, **2013**, 74, 20-27 | 8.6 | 34 |
| 245 | A progressive damage model of textile composites on meso-scale using finite element method: Fatigue damage analysis. *Computers and Structures*, **2015**, 152, 96-112 | 4.5 | 34 |
| 244 | Hierarchical lightweight composite materials for structural applications. *MRS Bulletin*, **2016**, 41, 672-677 | 3.2 | 33 |
| 243 | Structurally stitched NCF preforms: Quasi-static response. *Composites Science and Technology*, **2009**, 69, 2701-2710 | 8.6 | 33 |
| 242 | Modelling of Two-component Yarns Part I: The Compressibility of Yarns. *Journal of the Textile Institute*, **1997**, 88, 373-384 | 1.5 | 32 |
| 241 | The Simulation of the Geometry of Two-component Yarns. Part I: The Mechanics of Strand Compression: Simulating Yarn Cross-section Shape. *Journal of the Textile Institute*, **1997**, 88, 118-131 | 1.5 | 32 |
| 240 | On modelling of damage evolution in textile composites on meso-level via property degradation approach. *Composites Part A: Applied Science and Manufacturing*, **2007**, 38, 2433-2442 | 8.4 | 32 |
| 239 | Stochastic characterisation methodology for 3-D textiles based on micro-tomography. *Composite Structures*, **2017**, 173, 44-52 | 5.3 | 31 |
| 238 | The Master SN curve approach – A hybrid multi-scale fatigue simulation of short fiber reinforced composites. *Composites Part A: Applied Science and Manufacturing*, **2016**, 91, 510-518 | 8.4 | 30 |
| 237 | A comparative study of twill weave reinforced composites under tension–tension fatigue loading: Experiments and meso-modelling. *Composite Structures*, **2016**, 135, 306-315 | 5.3 | 30 |

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| 236 | Quasi-static and fatigue tensile behavior of a 3D rotary braided carbon/epoxy composite. *Journal of Composite Materials*, **2013**, 47, 3195-3209 | 2.7 | 30 |
| 235 | A model for the compression of a random assembly of carbon nanotubes. *Carbon*, **2011**, 49, 2079-2091 | 10.4 | 30 |
| 234 | Simulation of Multi-layered Composites Forming. *International Journal of Material Forming*, **2010**, 3, 695-698 | 2 | 30 |
| 233 | Correlation of microstructure and mechanical properties of various fabric reinforced geo-polymer composites after exposure to elevated temperature. *Ceramics International*, **2015**, 41, 12115-12129 | 5.1 | 29 |
| 232 | Strain mapping at the micro-scale in hierarchical polymer composites with aligned carbon nanotube grafted fibers. *Composites Science and Technology*, **2016**, 137, 24-34 | 8.6 | 29 |
| 231 | The Simulation of the Geometry of a Two-component Yarn Part II: Fibre Distribution in the Yarn Cross-section. *Journal of the Textile Institute*, **1997**, 88, 352-372 | 1.5 | 29 |
| 230 | Monitoring of acoustic emission damage during tensile loading of 3D woven carbon/epoxy composites. *Textile Reseach Journal*, **2014**, 84, 1373-1384 | 1.7 | 28 |
| 229 | Original mechanism of failure initiation revealed through modelling of naturally occurring microstructures. *Journal of the Mechanics and Physics of Solids*, **2010**, 58, 735-750 | 5 | 28 |
| 228 | Micro-CT based structure tensor analysis of fibre orientation in random fibre composites versus high-fidelity fibre identification methods. *Composite Structures*, **2020**, 235, 111818 | 5.3 | 28 |
| 227 | On the variability of permeability induced by reinforcement distortions and dual scale flow in liquid composite moulding: A review. *Composites Part A: Applied Science and Manufacturing*, **2019**, 120, 188-210 | 8.4 | 27 |
| 226 | Effective anisotropic stiffness of inclusions with debonded interface for Eshelby-based models. *Composite Structures*, **2015**, 131, 692-706 | 5.3 | 27 |
| 225 | The influence of the stitching pattern on the internal geometry, quasi-static and fatigue mechanical properties of glass fibre non-crimp fabric composites. *Composites Part A: Applied Science and Manufacturing*, **2014**, 56, 272-279 | 8.4 | 27 |
| 224 | Evolution of carbon nanotube dispersion in preparation of epoxy-based composites: From a masterbatch to a nanocomposite. *EXPRESS Polymer Letters*, **2014**, 8, 596-608 | 3.4 | 27 |
| 223 | Compressibility of carbon fabrics with needleless electrospun PAN nanofibrous interleaves. *EXPRESS Polymer Letters*, **2016**, 10, 25-35 | 3.4 | 27 |
| 222 | Local strain in a 5-harness satin weave composite under static tension: Part II Meso-FE analysis. *Composites Science and Technology*, **2011**, 71, 1217-1224 | 8.6 | 26 |
| 221 | Strain-rate sensitivity and stress relaxation of hybrid self-reinforced polypropylene composites under bending loads. *Composite Structures*, **2019**, 209, 802-810 | 5.3 | 26 |
| 220 | X-ray computed tomography characterization of manufacturing induced defects in a glass/polyester pultruded profile. *Composite Structures*, **2018**, 195, 74-82 | 5.3 | 25 |
| 219 | A reference specimen for permeability measurements of fibrous reinforcements for RTM. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 244-250 | 8.4 | 25 |

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| 218 | Internal geometry of woven composite laminates with fuzzy carbon nanotube grafted fibers. *Composites Part A: Applied Science and Manufacturing*, **2016**, 88, 295-304 | 8.4 | 24 |
| 217 | Detailed characterization of voids in multidirectional carbon fiber/epoxy composite laminates using X-ray micro-computed tomography. *Composites Part A: Applied Science and Manufacturing*, **2019**, 125, 105532 | 8.4 | 24 |
| 216 | Model of internal geometry of textile fabrics: Data structure and virtual reality implementation. *Journal of the Textile Institute*, **2007**, 98, 1-13 | 1.5 | 24 |
| 215 | Non-crimp fabric composites **2011**, | | 24 |
| 214 | X-ray micro-computed-tomography characterization of cracks induced by thermal cycling in non-crimp 3D orthogonal woven composite materials with porosity. *Composites Part A: Applied Science and Manufacturing*, **2018**, 112, 100-110 | 8.4 | 24 |
| 213 | Predicting permeability based on flow simulations and textile modelling techniques: Comparison with experimental values and verification of FlowTex solver using Ansys CFX. *Journal of Composite Materials*, **2016**, 50, 601-615 | 2.7 | 23 |
| 212 | Quasi-unidirectional flax composite reinforcement: Deformability and complex shape forming. *Composites Science and Technology*, **2015**, 110, 76-86 | 8.6 | 23 |
| 211 | Morphology and fracture behavior of POM modified epoxy matrices and their carbon fiber composites. *Composites Science and Technology*, **2015**, 110, 8-16 | 8.6 | 23 |
| 210 | Fatigue and post-fatigue tensile behaviour of non-crimp stitched and unstitched carbon/epoxy composites. *Composites Science and Technology*, **2010**, 70, 2216-2224 | 8.6 | 23 |
| 209 | Assessment of the mechanical behaviour of glass fibre composites with a tough polydicyclopentadiene (PDCPD) matrix. *Composites Part A: Applied Science and Manufacturing*, **2015**, 78, 191-200 | 8.4 | 22 |
| 208 | On the closed form expression of the Mori Tanaka theory prediction for the engineering constants of a unidirectional fiber-reinforced ply. *Composite Structures*, **2016**, 142, 1-6 | 5.3 | 22 |
| 207 | Tensile behaviour of thermally bonded nonwoven structures: model description. *Journal of Materials Science*, **2010**, 45, 2274-2284 | 4.3 | 22 |
| 206 | Damage development in woven carbon fibre thermoplastic laminates with PPS and PEEK matrices: A comparative study. *Journal of Composite Materials*, **2017**, 51, 637-647 | 2.7 | 21 |
| 205 | Carbon fibre sheet moulding compounds with high in-mould flow: Linking morphology to tensile and compressive properties. *Composites Part A: Applied Science and Manufacturing*, **2019**, 126, 105600 | 8.4 | 21 |
| 204 | Geometrical characterization and micro-structural modeling of short steel fiber composites. *Composites Part A: Applied Science and Manufacturing*, **2014**, 67, 171-180 | 8.4 | 21 |
| 203 | Compaction behaviour of dense sheared woven preforms: Experimental observations and analytical predictions. *Composites Part A: Applied Science and Manufacturing*, **2014**, 64, 167-176 | 8.4 | 21 |
| 202 | Loading direction dependence of the tensile stiffness, strength and fatigue life of biaxial carbon/epoxy NCF composites. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 16-21 | 8.4 | 21 |
| 201 | Impact and post-impact properties of a carbon fibre non-crimp fabric and a twill weave composite. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 1019-1026 | 8.4 | 21 |

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| 200 | Modelling the geometry of textile reinforcements for composites: WiseTex **2011**, 200-238 | | 21 |
| 199 | Forming simulation of a thermoplastic commingled woven textile on a double dome. *International Journal of Material Forming*, **2008**, 1, 965-968 | 2 | 21 |
| 198 | A feasibility study of the Master SN curve approach for short fiber reinforced composites. *International Journal of Fatigue*, **2016**, 91, 264-274 | 5 | 21 |
| 197 | The effect of voids on matrix cracking in composite laminates as revealed by combined computations at the micro- and meso-scales. *Composites Part A: Applied Science and Manufacturing*, **2019**, 117, 180-192 | 8.4 | 21 |
| 196 | Compressibility of nanofibre-grafted alumina fabric and yarns: Aligned carbon nanotube forests. *Composites Science and Technology*, **2014**, 90, 57-66 | 8.6 | 20 |
| 195 | Simulation of the cross-correlated positions of in-plane tow centroids in textile composites based on experimental data. *Composite Structures*, **2014**, 116, 75-83 | 5.3 | 20 |
| 194 | Benchmark Study of Finite Element Models for Simulating the Thermostamping of Woven-Fabric Reinforced Composites. *International Journal of Material Forming*, **2010**, 3, 683-686 | 2 | 20 |
| 193 | A predictive model for the penetration force of a woven fabric by a needle. *International Journal of Clothing Science and Technology*, **1998**, 10, 91-103 | 0.7 | 20 |
| 192 | Impact and post impact behavior of fabric reinforced geopolymer composite. *Construction and Building Materials*, **2016**, 127, 111-124 | 6.7 | 20 |
| 191 | The interplay between multiple toughening mechanisms in nanocomposites with spatially distributed and oriented carbon nanotubes as revealed by dual-scale simulations. *Carbon*, **2019**, 142, 141-149 | 10.4 | 20 |
| 190 | On the variability of mesoscale permeability of a 2/2 twill carbon fabric induced by variability of the internal geometry. *Composites Part A: Applied Science and Manufacturing*, **2017**, 101, 394-407 | 8.4 | 19 |
| 189 | A progressive damage model of textile composites on meso-scale using finite element method: static damage analysis. *Journal of Composite Materials*, **2014**, 48, 3091-3109 | 2.7 | 19 |
| 188 | Multi-scale modelling strategy for textile composites based on stochastic reinforcement geometry. *Computer Methods in Applied Mechanics and Engineering*, **2016**, 310, 906-934 | 5.7 | 19 |
| 187 | Full-field strain measurements and meso-FE modelling of hybrid carbon/self-reinforced polypropylene. *Composite Structures*, **2015**, 132, 864-873 | 5.3 | 18 |
| 186 | 3D digital image correlation measurements during shaping of a non-crimp 3D orthogonal woven E-glass reinforcement. *International Journal of Material Forming*, **2014**, 7, 439-446 | 2 | 18 |
| 185 | Quasi-UD glass fibre NCF composites for wind energy applications: a review of requirements and existing fatigue data for blade materials. *Mechanics and Industry*, **2013**, 14, 175-189 | 0.8 | 18 |
| 184 | Unit cell modelling of textile laminates with arbitrary inter-ply shifts. *Composites Science and Technology*, **2011**, 72, 14-20 | 8.6 | 18 |
| 183 | Nano-engineered composites: a multiscale approach for adding toughness to fibre reinforced composites. *Procedia Engineering*, **2011**, 10, 3252-3258 | | 18 |

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