Stepan Lomov

List of Publications by Year
in descending order

340
papers

14,014
citations

22146
59
h-index

31843
101
g-index

356
all docs

356
docs citations

356
times ranked

5883
citing authors

#	Article	IF	Citations
1	Characterization of mechanical behavior of woven fabrics: Experimental methods and benchmark results. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1037-1053.	7.6	490
2	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.	2.4	451
3	Meso-FE modelling of textile composites: Road map, data flow and algorithms. Composites Science and Technology, 2007, 67, 1870-1891.	7.8	411
4	Influence of carbon nanotube reinforcement on the processing and the mechanical behaviour of carbon fiber/epoxy composites. Carbon, 2009, 47, 2914-2923.	10.3	381
5	Virtual textile composites software : Integration with micro-mechanical, permeability and structural analysis. Composites Science and Technology, 2005, 65, 2563-2574.	7.8	361
6	Interfacial shear strength of a glass fiber/epoxy bonding in composites modified with carbon nanotubes. Composites Science and Technology, 2010, 70, 1346-1352.	7.8	260
7	Textile composites: modelling strategies. Composites Part A: Applied Science and Manufacturing, 2001, 32, 1379-1394.	7.6	227
8	Experimental determination of the permeability of textiles: A benchmark exercise. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1157-1168.	7.6	227
9	Micro-CT characterization of variability in 3D textile architecture. Composites Science and Technology, 2005, 65, 1920-1930.	7.8	215
10	Experimental determination of the permeability of engineering textiles: Benchmark II. Composites Part A: Applied Science and Manufacturing, 2014, 61, 172-184.	7.6	202
11	Textile geometry preprocessor for meso-mechanical models of woven composites. Composites Science and Technology, 2000, 60, 2083-2095.	7.8	183
12	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.	7.6	181
13	Full-field strain measurements in textile deformability studies. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1232-1244.	7.6	180
14	Cluster analysis of acoustic emission signals for 2D and 3D woven glass/epoxy composites. Composite Structures, 2014, 116, 286-299.	5.8	171
15	The response of natural fibre composites to ballistic impact by fragment simulating projectiles. Composite Structures, 2007, 77, 232-240.	5.8	167
16	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.	7.6	159
17	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.	7.6	158
18	Nesting in textile laminates: geometrical modelling of the laminate. Composites Science and Technology, 2003, 63, 993-1007.	7.8	140

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19	Experimental methodology of study of damage initiation and development in textile composites in uniaxial tensile test. Composites Science and Technology, 2008, 68, 2340-2349.	7.8	140
20	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.	7.6	137
21	Model of shear of woven fabric and parametric description of shear resistance of glass woven reinforcements. Composites Science and Technology, 2006, 66, 919-933.	7.8	137
22	Failure analysis of triaxial braided composite. Composites Science and Technology, 2009, 69, 1372-1380.	7.8	136
23	Full-field strain measurements for validation of meso-FE analysis of textile composites. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1218-1231.	7.6	133
24	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.	7.6	124
25	Modelling of permeability of textile reinforcements: lattice Boltzmann method. Composites Science and Technology, 2004, 64, 1069-1080.	7.8	116
26	Full-field strain measurements at the micro-scale in fiber-reinforced composites using digital image correlation. Composite Structures, 2016, 140, 192-201.	5.8	115
27	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.	3.2	108
28	Picture Frame Test of Woven Composite Reinforcements with a Full-Field Strain Registration. Textile Reseach Journal, 2006, 76, 243-252.	2.2	106
29	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.	7.6	105
30	Internal geometry evaluation of non-crimp 3D orthogonal woven carbon fabric composite. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1301-1311.	7.6	100
31	Statistical analysis of real and simulated fibre arrangements in unidirectional composites. Composites Science and Technology, 2013, 87, 126-134.	7.8	98
32	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.	7.6	96
33	Permeability of textile reinforcements: Simulation, influence of shear and validation. Composites Science and Technology, 2008, 68, 2804-2810.	7.8	93
34	Hierarchy of Textile Structures and Architecture of Fabric Geometric Models. Textile Reseach Journal, 2001, 71, 534-543.	2.2	89
35	The effect of carbon nanotubes on the damage development in carbon fiber/epoxy composites. Carbon, 2011, 49, 4650-4664.	10.3	89
36	Impact and residual after impact properties of carbon fiber/epoxy composites modified with carbon nanotubes. Composite Structures, 2014, 111, 488-496.	5.8	89

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37	Do high frequency acoustic emission events always represent fibre failure in CFRP laminates?. Composites Part A: Applied Science and Manufacturing, 2017, 103, 230-235.	7.6	84
38	Local damage in a 5-harness satin weave composite under static tension: Part II â€" Meso-FE modelling. Composites Science and Technology, 2010, 70, 1934-1941.	7.8	83
39	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.	7.6	82
40	Stress concentrations in an impregnated fibre bundle with random fibre packing. Composites Science and Technology, 2013, 74, 113-120.	7.8	82
41	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.	5.8	82
42	Optical strain fields in shear and tensile testing of textile reinforcements. Composites Science and Technology, 2008, 68, 807-819.	7.8	81
43	Assessment of embedded element technique in meso-FE modelling of fibre reinforced composites. Composite Structures, 2014, 107, 436-446.	5.8	81
44	Compression of Woven Reinforcements: A Mathematical Model. Journal of Reinforced Plastics and Composites, 2000, 19, 1329-1350.	3.1	80
45	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.	7.6	80
46	A Self Adaptive Global Digital Image Correlation Algorithm. Experimental Mechanics, 2015, 55, 361-378.	2.0	80
47	Modelling evidence of stress concentration mitigation at the micro-scale in polymer composites by the addition of carbon nanotubes. Carbon, 2015, 82, 184-194.	10.3	80
48	Validation of x-ray microfocus computed tomography as an imaging tool for porous structures. Review of Scientific Instruments, 2008, 79, 013711.	1.3	79
49	Correlation of acoustic emission with optically observed damage in a glass/epoxy woven laminate under tensile loading. Composite Structures, 2015, 123, 45-53.	5.8	79
50	Study of nesting induced scatter of permeability values in layered reinforcement fabrics. Composites Part A: Applied Science and Manufacturing, 2004, 35, 1407-1418.	7.6	75
51	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.	7.6	75
52	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.	7.6	74
53	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.	7.8	72
54	Local damage in a 5-harness satin weave composite under static tension: Part I â€" Experimental analysis. Composites Science and Technology, 2010, 70, 1926-1933.	7.8	69

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55	Fatigue tensile behavior of carbon/epoxy composite reinforced with non-crimp 3D orthogonal woven fabric. Composites Science and Technology, 2011, 71, 1961-1972.	7.8	66
56	Coupled meso-macro simulation of woven fabric local deformation during draping. Composites Part A: Applied Science and Manufacturing, 2019, 118, 267-280.	7.6	65
57	Cluster analysis of acoustic emission signals for 2D and 3D woven carbon fiber/epoxy composites. Journal of Composite Materials, 2016, 50, 1921-1935.	2.4	64
58	Interply hybrid composites with carbon fiber reinforced polypropylene and self-reinforced polypropylene. Composites Part A: Applied Science and Manufacturing, 2010, 41, 927-932.	7.6	63
59	Stochastic multi-scale modelling of textile composites based on internal geometry variability. Computers and Structures, 2013, 122, 55-64.	4.4	63
60	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.	4.3	61
61	Permeability prediction for the mesoâ€"macro coupling in the simulation of the impregnation stage of Resin Transfer Moulding. Composites Part A: Applied Science and Manufacturing, 2010, 41, 29-35.	7.6	61
62	Characterization of the dynamic friction of woven fabrics: Experimental methods and benchmark results. Composites Part A: Applied Science and Manufacturing, 2014, 67, 289-298.	7.6	61
63	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.	12.0	61
64	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.	7.6	60
65	Strain mapping analysis of textile composites. Optics and Lasers in Engineering, 2009, 47, 360-370.	3.8	59
66	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.	7.6	59
67	Micro-CT analysis of internal geometry of chopped carbon fiber tapes reinforced thermoplastics. Composites Part A: Applied Science and Manufacturing, 2016, 91, 211-221.	7.6	58
68	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.	7.6	56
69	Acoustic emission and damage mode correlation in textile reinforced PPS composites. Composite Structures, 2017, 163, 399-409.	5.8	56
70	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.	12.0	55
71	Stress magnification due to carbon nanotube agglomeration in composites. Composite Structures, 2015, 133, 246-256.	5.8	55
72	Micro-CT based structure tensor analysis of fibre orientation in random fibre composites versus high-fidelity fibre identification methods. Composite Structures, 2020, 235, 111818.	5.8	54

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73	Local strain in a 5-harness satin weave composite under static tension: Part I â€“ Experimental analysis. Composites Science and Technology, 2011, 71, 1171-1179.	7.8	53
74	Internal geometry variability of two woven composites and related variability of the stiffness. Polymer Composites, 2012, 33, 1335-1350.	4.6	53
75	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.	7.6	53
76	Multi-instrument in-situ damage monitoring in quasi-isotropic CFRP laminates under tension. Composite Structures, 2018, 196, 163-180.	5.8	53
77	The method of cells and the mechanical properties of textile composites. Composite Structures, 2011, 93, 1290-1299.	5.8	52
78	Micro-CT analysis of internal structure of sheared textile composite reinforcement. Composites Part A: Applied Science and Manufacturing, 2015, 73, 45-54.	7.6	51
79	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.	7.6	51
80	Meso-level textile composites simulations: Open data exchange and scripting. Journal of Composite Materials, 2014, 48, 621-637.	2.4	50
81	Influence of fibre misalignment and voids on composite laminate strength. Journal of Composite Materials, 2015, 49, 2887-2896.	2.4	50
82	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.	7.6	50
83	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.	7.6	50
84	Experimental and Theoretical Characterization of the Geometry of Two-Dimensional Braided Fabrics. Textile Reseach Journal, 2002, 72, 706-712.	2.2	49
85	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.	7.6	49
86	Carbon composites based on multi-axial multi-ply stitched preforms â€“ Part 6. Fatigue behaviour at low loads: Stiffness degradation and damage development. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1633-1645.	7.6	48
87	Inter-fiber stresses in composites with carbon nanotube grafted and coated fibers. Composites Science and Technology, 2015, 114, 79-86.	7.8	48
88	Damage in flax/epoxy quasi-unidirectional woven laminates under quasi-static tension. Journal of Composite Materials, 2015, 49, 403-413.	2.4	48
89	Deformability of a non-crimp 3D orthogonal weave E-glass composite reinforcement. Composites Science and Technology, 2012, 73, 9-18.	7.8	47
90	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.	4.4	47

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91	Experimentally validated stochastic geometry description for textile composite reinforcements. Composites Science and Technology, 2016, 122, 122-129.	7.8	47
92	Compressibility of carbon woven fabrics with carbon nanotubes/nanofibres grown on the fibres. Composites Science and Technology, 2011, 71, 315-325.	7.8	46
93	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.	7.8	46
94	Can carbon nanotubes grown on fibers fundamentally change stress distribution in a composite?. Composites Part A: Applied Science and Manufacturing, 2014, 63, 32-34.	7.6	46
95	Correlation of microstructure and mechanical properties of various fabric reinforced geo-polymer composites after exposure to elevated temperature. Ceramics International, 2015, 41, 12115-12129.	4.8	46
96	Fatigue and post-fatigue behaviour of carbon/epoxy non-crimp fabric composites. Composites Part A: Applied Science and Manufacturing, 2009, 40, 251-259.	7.6	45
97	A Predictive Model for the Fabric-to-Yarn Bending Stiffness Ratio of a Plain-Woven Set Fabric. Textile Reseach Journal, 2000, 70, 1088-1096.	2.2	44
98	Pore network modeling of permeability for textile reinforcements. Polymer Composites, 2003, 24, 344-357.	4.6	44
99	Stochastic characterisation methodology for 3-D textiles based on micro-tomography. Composite Structures, 2017, 173, 44-52.	5.8	43
100	X-ray computed tomography characterization of manufacturing induced defects in a glass/polyester pultruded profile. Composite Structures, 2018, 195, 74-82.	5.8	43
101	A progressive damage model of textile composites on meso-scale using finite element method: Fatigue damage analysis. Computers and Structures, 2015, 152, 96-112.	4.4	42
102	Fatigue and post-fatigue stressâ€“strain analysis of a 5-harness satin weave carbon fibre reinforced composite. Composites Science and Technology, 2013, 74, 20-27.	7.8	41
103	Effective anisotropic stiffness of inclusions with debonded interface for Eshelby-based models. Composite Structures, 2015, 131, 692-706.	5.8	41
104	The Master SN curve approach â€“ A hybrid multi-scale fatigue simulation of short fiber reinforced composites. Composites Part A: Applied Science and Manufacturing, 2016, 91, 510-518.	7.6	41
105	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.	7.6	40
106	Simulation of Multi-layered Composites Forming. International Journal of Material Forming, 2010, 3, 695-698.	2.0	40
107	Hierarchical lightweight composite materials for structural applications. MRS Bulletin, 2016, 41, 672-677.	3.5	40
108	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.	7.6	39

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109	Formability of a non-crimp 3D orthogonal weave E-glass composite reinforcement. Composites Part A: Applied Science and Manufacturing, 2014, 61, 76-83.	7.6	39
110	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.	7.6	39
111	Strain-rate sensitivity and stress relaxation of hybrid self-reinforced polypropylene composites under bending loads. Composite Structures, 2019, 209, 802-810.	5.8	39
112	A comparative study of twill weave reinforced composites under tensionâ€“tension fatigue loading: Experiments and meso-modelling. Composite Structures, 2016, 135, 306-315.	5.8	38
113	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.	1.9	37
114	Drape-ability characterization of textile composite reinforcements using digital image correlation. Optics and Lasers in Engineering, 2009, 47, 343-351.	3.8	37
115	Structurally stitched NCF preforms: Quasi-static response. Composites Science and Technology, 2009, 69, 2701-2710.	7.8	37
116	Strain mapping at the micro-scale in hierarchical polymer composites with aligned carbon nanotube grafted fibers. Composites Science and Technology, 2016, 137, 24-34.	7.8	37
117	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.	7.6	36
118	Modelling of Two-component Yarns Part I: The Compressibility of Yarns. Journal of the Textile Institute, 1997, 88, 373-384.	1.9	35
119	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.	1.9	35
120	Monitoring of acoustic emission damage during tensile loading of 3D woven carbon/epoxy composites. Textile Reseach Journal, 2014, 84, 1373-1384.	2.2	35
121	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.	7.6	34
122	On the closed form expression of the Moriâ€“Tanaka theory prediction for the engineering constants of a unidirectional fiber-reinforced ply. Composite Structures, 2016, 142, 1-6.	5.8	34
123	A model for the compression of a random assembly of carbon nanotubes. Carbon, 2011, 49, 2079-2091.	10.3	33
124	Quasi-static and fatigue tensile behavior of a 3D rotary braided carbon/epoxy composite. Journal of Composite Materials, 2013, 47, 3195-3209.	2.4	33
125	Meso-FE modelling of textile composites and X-ray tomography. Journal of Materials Science, 2020, 55, 16969-16989.	3.7	33
126	Automated reconstruction and conformal discretization of 3D woven composite CT scans with local fiber volume fraction control. Composite Structures, 2020, 248, 112438.	5.8	33

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127	Combining digital image correlation with X-ray computed tomography for characterization of fiber orientation in unidirectional composites. Composites Part A: Applied Science and Manufacturing, 2021, 142, 106234.	7.6	33
128	Non-crimp fabric composites. , 2011, , .		33
129	Impact and post impact behavior of fabric reinforced geopolymer composite. Construction and Building Materials, 2016, 127, 111-124.	7.2	32
130	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.	7.6	32
131	A reference specimen for permeability measurements of fibrous reinforcements for RTM. Composites Part A: Applied Science and Manufacturing, 2009, 40, 244-250.	7.6	31
132	Compressibility of carbon fabrics with needleless electrospun PAN nanofibrous interleaves. EXPRESS Polymer Letters, 2016, 10, 25-35.	2.1	31
133	Original mechanism of failure initiation revealed through modelling of naturally occurring microstructures. Journal of the Mechanics and Physics of Solids, 2010, 58, 735-750.	4.8	30
134	Fatigue and post-fatigue tensile behaviour of non-crimp stitched and unstitched carbon/epoxy composites. Composites Science and Technology, 2010, 70, 2216-2224.	7.8	30
135	Evolution of carbon nanotube dispersion in preparation of epoxy-based composites: From a masterbatch to a nanocomposite. EXPRESS Polymer Letters, 2014, 8, 596-608.	2.1	30
136	Local strain in a 5-harness satin weave composite under static tension: Part II â€“ Meso-FE analysis. Composites Science and Technology, 2011, 71, 1217-1224.	7.8	29
137	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.	7.6	29
138	Quasi-unidirectional flax composite reinforcement: Deformability and complex shape forming. Composites Science and Technology, 2015, 110, 76-86.	7.8	29
139	Model of internal geometry of textile fabrics: Data structure and virtual reality implementation. Journal of the Textile Institute, 2007, 98, 1-13.	1.9	28
140	Morphology and fracture behavior of POM modified epoxy matrices and their carbon fiber composites. Composites Science and Technology, 2015, 110, 8-16.	7.8	28
141	Internal geometry of woven composite laminates with â€œfuzzyâ€• carbon nanotube grafted fibers. Composites Part A: Applied Science and Manufacturing, 2016, 88, 295-304.	7.6	28
142	Modelling the geometry of textile reinforcements for composites: WiseTex. , 2011, , 200-238.		27
143	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.	2.4	27
144	Damage development in woven carbon fibre thermoplastic laminates with PPS and PEEK matrices: A comparative study. Journal of Composite Materials, 2017, 51, 637-647.	2.4	27

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145	Hybrid composites of aligned discontinuous carbon fibers and self-reinforced polypropylene under tensile loading. Composites Part A: Applied Science and Manufacturing, 2019, 123, 97-107.	7.6	27
146	Detailed experimental validation and benchmarking of six models for longitudinal tensile failure of unidirectional composites. Composite Structures, 2022, 279, 114828.	5.8	27
147	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.	7.6	26
148	A feasibility study of the Master SN curve approach for short fiber reinforced composites. International Journal of Fatigue, 2016, 91, 264-274.	5.7	26
149	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.	7.6	26
150	A thick-walled sheet moulding compound automotive component: Manufacturing and performance. Composites Part A: Applied Science and Manufacturing, 2020, 128, 105688.	7.6	26
151	Single carbon and glass fibre properties characterised using large data sets obtained through automated single fibre tensile testing. Composites Part A: Applied Science and Manufacturing, 2021, 145, 106389.	7.6	26
152	Tensile behaviour of thermally bonded nonwoven structures: model description. Journal of Materials Science, 2010, 45, 2274-2284.	3.7	25
153	Geometrical characterization and micro-structural modeling of short steel fiber composites. Composites Part A: Applied Science and Manufacturing, 2014, 67, 171-180.	7.6	25
154	Multi-scale modelling strategy for textile composites based on stochastic reinforcement geometry. Computer Methods in Applied Mechanics and Engineering, 2016, 310, 906-934.	6.6	25
155	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.	10.3	25
156	Compaction behaviour of dense sheared woven preforms: Experimental observations and analytical predictions. Composites Part A: Applied Science and Manufacturing, 2014, 64, 167-176.	7.6	24
157	Discontinuities as a way to influence the failure mechanisms and tensile performance of hybrid carbon fiber/self-reinforced polypropylene composites. Composites Part A: Applied Science and Manufacturing, 2018, 107, 354-365.	7.6	24
158	Debonding at the fiber/matrix interface in carbon nanotube reinforced composites: Modelling investigation. Computational Materials Science, 2019, 159, 412-419.	3.0	24
159	Benchmark Study of Finite Element Models for Simulating the Thermostamping of Woven-Fabric Reinforced Composites. International Journal of Material Forming, 2010, 3, 683-686.	2.0	23
160	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.	7.6	23
161	Simulation of the cross-correlated positions of in-plane tow centroids in textile composites based on experimental data. Composite Structures, 2014, 116, 75-83.	5.8	23
162	Influence of cooling rate on the properties of carbon fiber unidirectional composites with polypropylene, polyamide 6, and polyphenylene sulfide matrices. Advanced Composite Materials, 2020, 29, 101-113.	1.9	23

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163	Experimental characterisation of textile compaction response: A benchmark exercise. Composites Part A: Applied Science and Manufacturing, 2021, 142, 106243.	7.6	23
164	A multi-layer resin film infusion process to control CNTs distribution and alignment for improving CFRP interlaminar fracture toughness. Composite Structures, 2021, 260, 113510.	5.8	23
165	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.	1.1	22
166	Forming simulation of a thermoplastic commingled woven textile on a double dome. International Journal of Material Forming, 2008, 1, 965-968.	2.0	22
167	Compressibility of nanofibre-grafted alumina fabric and yarns: Aligned carbon nanotube forests. Composites Science and Technology, 2014, 90, 57-66.	7.8	22
168	Micro-scale finite element analysis of stress concentrations in steel fiber composites under transverse loading. Journal of Composite Materials, 2015, 49, 1057-1069.	2.4	22
169	Investigation of interply shear in composite forming. International Journal of Material Forming, 2008, 1, 957-960.	2.0	21
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