

Stepan Lomov

List of Publications by Year in Descending Order

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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.

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	Discussion of the statistical representativeness of the results in: Lomov, Breite, Melnikov, Mesquita, Swolfs and Abaimov [Int. J. Solids Struct 225 (2021) 111061]. <i>International Journal of Solids and Structures</i> , 2022 , 236-237, 111356	3.1	
342	Detailed experimental validation and benchmarking of six models for longitudinal tensile failure of unidirectional composites. <i>Composite Structures</i> , 2022 , 279, 114828	5.3	6
341	WiseTex [®] Virtual Textile Composites Software 2022 , 293-318		
340	In-situ synchrotron computed tomography tensile testing observations of the hybrid effect: A comparison with theory. <i>Composites Part B: Engineering</i> , 2022 , 235, 109765	10	
339	Deformation and failure of pseudo-ductile quasi-isotropic all-carbon hybrid FRPS with an open hole under tension. <i>Composites Part B: Engineering</i> , 2022 , 237, 109870	10	0
338	Advances in composite forming through 25 years of ESAFORM. <i>International Journal of Material Forming</i> , 2022 , 15, 1	2	0
337	Conductive CNT-polymer nanocomposites digital twins for self-diagnostic structures: Sensitivity to CNT parameters. <i>Composite Structures</i> , 2022 , 291, 115617	5.3	1
336	A synchrotron computed tomography dataset for validation of longitudinal tensile failure models based on fibre break and cluster development. <i>Data in Brief</i> , 2021 , 39, 107590	1.2	0
335	A multi-layer resin film infusion process to control CNTs distribution and alignment for improving CFRP interlaminar fracture toughness. <i>Composite Structures</i> , 2021 , 260, 113510	5.3	7
334	Numerical artifacts of Fast Fourier Transform solvers for elastic problems of multi-phase materials: their causes and reduction methods. <i>Computational Mechanics</i> , 2021 , 67, 1661-1683	4	1
333	Split-disk test with 3D Digital Image Correlation strain measurement for filament wound composites. <i>Composite Structures</i> , 2021 , 263, 113686	5.3	0
332	Large datasets of single carbon and glass fibre mechanical properties obtained with automated testing equipment. <i>Data in Brief</i> , 2021 , 36, 107085	1.2	2
331	Single carbon and glass fibre properties characterised using large data sets obtained through automated single fibre tensile testing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 145, 106389	8.4	12
330	Identification and validation of a hyperelastic model for self-reinforced polypropylene draping. <i>International Journal of Material Forming</i> , 2021 , 14, 55-65	2	7
329	Blind benchmarking of seven longitudinal tensile failure models for two virtual unidirectional composites. <i>Composites Science and Technology</i> , 2021 , 202, 108555	8.6	7
328	Combining digital image correlation with X-ray computed tomography for characterization of fiber orientation in unidirectional composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 142, 106234	8.4	12
327	Experimental characterisation of textile compaction response: A benchmark exercise. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 142, 106243	8.4	9

326	Microscale material variability and its effect on longitudinal tensile failure of unidirectional carbon fibre composites. <i>Composite Structures</i> , 2021 , 261, 113300	5.3	2
325	Self-diagnostic carbon nanocomposites manufactured from industrial epoxy masterbatches. <i>Composite Structures</i> , 2021 , 259, 113244	5.3	6
324	Modeling the geometry of textile composite reinforcements: WiseTex 2021 , 199-236		0
323	Detailed comparison of analytical and finite element based homogenization approaches for fibre-reinforced composites 2021 , 141-177		1
322	A dataset of micro-scale tomograms of unidirectional glass fiber/epoxy and carbon fiber/epoxy composites acquired via synchrotron computed tomography during tensile loading. <i>Data in Brief</i> , 2021 , 34, 106672	1.2	1
321	Clusters and avalanches of fibre breaks in a model of an impregnated unidirectional fibre bundle under tension. <i>International Journal of Solids and Structures</i> , 2021 , 225, 111061	3.1	3
320	Fiber break model for tension-tension fatigue of unidirectional composites. <i>Composites Part B: Engineering</i> , 2021 , 220, 108970	10	5
319	Inpainting micro-CT images of fibrous materials using deep learning. <i>Computational Materials Science</i> , 2021 , 197, 110551	3.2	1
318	Digital volume correlation for meso/micro in-situ damage analysis in carbon fiber reinforced composites. <i>Composites Science and Technology</i> , 2021 , 213, 108944	8.6	3
317	In-series sample methodology for permeability characterization demonstrated on carbon nanotube-grafted alumina textiles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 150, 106631	8.4	1
316	Tuning the through-thickness orientation of 1D nanocarbons to enhance the electrical conductivity and ILSS of hierarchical CFRP composites. <i>Science and Engineering of Composite Materials</i> , 2021 , 28, 453-465	1.5	1
315	State-of-the-art models for mechanical performance of carbon-glass hybrid composites in wind turbine blades. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 942, 012005	0.4	0
314	Automated reconstruction and conformal discretization of 3D woven composite CT scans with local fiber volume fraction control. <i>Composite Structures</i> , 2020 , 248, 112438	5.3	17
313	Pseudo-ductile unidirectional high modulus/high strength carbon fibre hybrids using conventional ply thickness prepregs. <i>Composites Part B: Engineering</i> , 2020 , 198, 108213	10	11
312	Direct Mori-Tanaka calculations of strains in ellipsoidal inclusions with multiple orientations □ Comments on the papers: Naili, G. et al. <i>Comp Sci Tech</i> , 187: 107942, 2020 (https://doi.org/10.1016/j.compscitech.2019.107942) and Jain, A. et al., <i>Comp Sci Tech</i> , 87: 8693, 2013 (https://doi.org/10.1016/j.compscitech.2013.08.009). <i>Composites Science and Technology</i> , Mode I and II interlaminar critical energy release rates in all-carbon interlayer unidirectional fibre-hybrids based on ultrahigh-modulus and high-strength fibres. <i>Composite Structures</i> , 2020 , 236, 111886	8.6	4
311		5.3	9
310	Modeling of 2D and 3D woven composites 2020 , 23-57		2
309	Morphology-induced fatigue crack arresting in carbon fibre sheet moulding compounds. <i>International Journal of Fatigue</i> , 2020 , 134, 105510	5	3

308	Micro-CT analysis of deviations in fiber orientation and composite stiffness near the microvascular channels embedded in glass-fiber reinforced composites. <i>Composite Structures</i> , 2020 , 237, 111896	5.3	9
307	Enhancing Strength and Toughness of Hierarchical Composites through Optimization of Position and Orientation of Nanotubes: A Computational Study. <i>Journal of Composites Science</i> , 2020 , 4, 34	3	1
306	A thick-walled sheet moulding compound automotive component: Manufacturing and performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 128, 105688	8.4	16
305	Strength analysis of unidirectional composites to explain fiber bundle splitting. <i>Advanced Composite Materials</i> , 2020 , 29, 351-362	2.8	3
304	Micro-CT based structure tensor analysis of fibre orientation in random fibre composites versus high-fidelity fibre identification methods. <i>Composite Structures</i> , 2020 , 235, 111818	5.3	28
303	Methodology of dry and wet compressibility measurement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 128, 105672	8.4	8
302	Interface strength of glass fibers in polypropylene: Dependence on the cooling rate and the degree of crystallinity. <i>Polymer Composites</i> , 2020 , 41, 1310-1322	3	6
301	Sustainable composites: Processing of coir fibres and application in hybrid-fibre composites. <i>Journal of Composite Materials</i> , 2020 , 54, 1947-1960	2.7	7
300	When does nanotube grafting on fibers benefit the strength and toughness of composites?. <i>Composites Science and Technology</i> , 2020 , 188, 107989	8.6	10
299	Additively manufactured three dimensional reference porous media for the calibration of permeability measurement set-ups. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 139, 106119	8.4	4
298	An incremental-onset model for fatigue delamination propagation in composite laminates. <i>Composites Science and Technology</i> , 2020 , 200, 108394	8.6	2
297	Weld lines in tow-based sheet moulding compounds tensile properties: Morphological detrimental factors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 139, 106109	8.4	2
296	Digital image correlation assisted characterization of Mode I fatigue delamination in composites. <i>Composite Structures</i> , 2020 , 253, 112746	5.3	7
295	Meso-FE modelling of textile composites and X-ray tomography. <i>Journal of Materials Science</i> , 2020 , 55, 16969-16989	4.3	17
294	Influence of cooling rate on the properties of carbon fiber unidirectional composites with polypropylene, polyamide 6, and polyphenylene sulfide matrices. <i>Advanced Composite Materials</i> , 2020 , 29, 101-113	2.8	15
293	Micro-scale numerical study of fiber/matrix debonding in steel fiber composites. <i>Journal of Engineered Fibers and Fabrics</i> , 2020 , 15, 155892502091072	0.9	1
292	In-situ imaging of inter- and intra-laminar damage in open-hole tension tests of carbon fibre-reinforced composites. <i>Composite Structures</i> , 2020 , 244, 112302	5.3	3
291	Carbon fibre sheet moulding compounds with high in-mould flow: Linking morphology to tensile and compressive properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 126, 105600	8.4	21

290	Debonding at the fiber/matrix interface in carbon nanotube reinforced composites: Modelling investigation. <i>Computational Materials Science</i> , 2019 , 159, 412-419	3.2	10
289	Hybrid composites of aligned discontinuous carbon fibers and self-reinforced polypropylene under tensile loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 123, 97-107	8.4	15
288	A combined use of embedded and cohesive elements to model damage development in fibrous composites. <i>Composite Structures</i> , 2019 , 223, 110921	5.3	10
287	In-plane permeability characterization of engineering textiles based on radial flow experiments: A benchmark exercise. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 121, 100-114	8.4	46
286	On the variability of permeability induced by reinforcement distortions and dual scale flow in liquid composite moulding: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 120, 188-210	8.4	27
285	Bio-inspired design for enhanced damage tolerance of self-reinforced polypropylene/carbon fibre polypropylene hybrid composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 121, 341-352	8.4	11
284	Detailed characterization of voids in multidirectional carbon fiber/epoxy composite laminates using X-ray micro-computed tomography. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 125, 105532	8.4	24
283	Staggered ply discontinuities for tailoring the tensile behavior of hybrid carbon fiber/self-reinforced polypropylene composites: A study of pattern parameters. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 125, 105551	8.4	4
282	Reduction of the volume redundancy in combined embedded elements/cohesive zone modelling □ Comments on the paper: Liu Q, Gorbatikh L, Lomov SV. A combined use of embedded and cohesive elements to model damage development in fibrous composites, <i>Composite Structures</i> , 2019, 223:110921 (doi 10.1016/j.compstruct.2019.110921). <i>Composite Structures</i> , 2019 , 226, 111273	5.3	1
281	Ply fragmentation in unidirectional hybrid composites linked to stochastic fibre behaviour: A dual-scale model. <i>Composites Science and Technology</i> , 2019 , 181, 107702	8.6	14
280	Engineering tensile behavior of hybrid carbon fiber/self-reinforced polypropylene composites by bio-inspired fiber discontinuities. <i>Composites Part B: Engineering</i> , 2019 , 178, 107502	10	6
279	A dataset of void characteristics in multidirectional carbon fiber/epoxy composite laminates, obtained using X-ray micro-computed tomography. <i>Data in Brief</i> , 2019 , 27, 104686	1.2	2
278	Stress distribution around a broken carbon fibre and how it is affected by carbon nanotubes in the interface region. <i>Composite Interfaces</i> , 2019 , 26, 507-524	2.3	5
277	Strain-rate sensitivity and stress relaxation of hybrid self-reinforced polypropylene composites under bending loads. <i>Composite Structures</i> , 2019 , 209, 802-810	5.3	26
276	The effect of voids on matrix cracking in composite laminates as revealed by combined computations at the micro- and meso-scales. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 117, 180-192	8.4	21
275	Voids in fiber-reinforced polymer composites: A review on their formation, characteristics, and effects on mechanical performance. <i>Journal of Composite Materials</i> , 2019 , 53, 1579-1669	2.7	233
274	Coupled meso-macro simulation of woven fabric local deformation during draping. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 118, 267-280	8.4	39
273	The interplay between multiple toughening mechanisms in nanocomposites with spatially distributed and oriented carbon nanotubes as revealed by dual-scale simulations. <i>Carbon</i> , 2019 , 142, 141-149	10.4	20

272	X-ray computed tomography characterization of manufacturing induced defects in a glass/polyester pultruded profile. <i>Composite Structures</i> , 2018 , 195, 74-82	5.3	25
271	Discontinuities as a way to influence the failure mechanisms and tensile performance of hybrid carbon fiber/self-reinforced polypropylene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 107, 354-365	8.4	17
270	Multi-instrument in-situ damage monitoring in quasi-isotropic CFRP laminates under tension. <i>Composite Structures</i> , 2018 , 196, 163-180	5.3	38
269	First steps in composite materials for schoolchildren: A STEM educational project. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 109, 298-302	8.4	2
268	Micro-CT measurement of fibre misalignment: Application to carbon/epoxy laminates manufactured in autoclave and by vacuum assisted resin transfer moulding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 104, 14-23	8.4	41
267	Applications of CT for Non-destructive Testing and Materials Characterization 2018 , 267-331		2
266	Analysis of stress concentrations in transversely loaded steel-fiber composites with nano-reinforced interphases. <i>International Journal of Solids and Structures</i> , 2018 , 130-131, 248-257	3.1	7
265	Digital Image Correlation Measurements of Mode I Fatigue Delamination in Laminated Composites. <i>Proceedings (mdpi)</i> , 2018 , 2, 430	0.3	2
264	Spatial distribution and orientation of nanotubes for suppression of stress concentrations optimized using genetic algorithm and finite element analysis. <i>Materials and Design</i> , 2018 , 158, 136-146	8.1	10
263	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. <i>Composites Part B: Engineering</i> , 2018 , 154, 138-147	10	38
262	Machine compliance in compression tests 2018 ,		1
261	2.15 Damage in Architected Composites 2018 , 291-306		2
260	Influence of Cooling Rate on the Properties of Carbon Fiber Unidirectional Composites with Polypropylene, Polyamide 6, and Polyphenylene Sulfide Matrices. <i>Journal of the Japan Society for Composite Materials</i> , 2018 , 44, 123-128	0.1	4
259	A parametric study assessing performance of eXtended Finite Element Method in application to the cracking process in cross-ply composite laminates. <i>Composite Structures</i> , 2018 , 187, 489-497	5.3	13
258	An evaluation of damage development for CFRTP by conventional tows and spread tows using acoustic emission. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 406, 012056	0.4	
257	X-ray CT based assessment of thermal cycling induced cracks in non-crimp 3D orthogonal woven composite materials with porosity. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 406, 012008	0.4	1
256	Multi-scale experimental and computational investigation of matrix cracking evolution in carbon fiber-reinforced composites in the absence and presence of voids. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 406, 012011	0.4	2
255	Effects of Stitching on Damage Development for Non-crimp Fabric Composites based on Multi-scale Analytical Method. <i>Journal of Textile Engineering</i> , 2018 , 64, 83-91	0.3	2

254	Viscoelastic Behaviour of Self-reinforced Polypropylene Composites under Bending Loads. <i>Procedia Structural Integrity</i> , 2018 , 13, 1999-2004	1	2
253	Multi-instrument multi-scale experimental damage mechanics for fibre reinforced composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 406, 012057	0.4	0
252	Flexural behaviour of corrugated panels of self-reinforced polypropylene hybridised with carbon fibre: An experimental and modelling study. <i>Composites Part B: Engineering</i> , 2018 , 153, 437-444	10	13
251	Analysis of void morphology in composite laminates using micro-computed tomography. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 406, 012010	0.4	2
250	Metal Fibers <i>Steel</i> 2018 , 219-241		1
249	Micro-CT analysis of the orientation unevenness in randomly chopped strand composites in relation to the strand length. <i>Composite Structures</i> , 2018 , 206, 865-875	5.3	14
248	Hierarchical design of structural composite materials down to the nanoscale via experimentation and modelling. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 406, 012002	0.4	1
247	X-ray micro-computed-tomography characterization of cracks induced by thermal cycling in non-crimp 3D orthogonal woven composite materials with porosity. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 112, 100-110	8.4	24
246	Meso-macro simulation of the woven fabric local deformation in draping 2018 ,		5
245	Damage development in woven carbon fibre thermoplastic laminates with PPS and PEEK matrices: A comparative study. <i>Journal of Composite Materials</i> , 2017 , 51, 637-647	2.7	21
244	Mesh superposition applied to meso-FE modelling of fibre-reinforced composites: Cross-comparison of implementations. <i>International Journal for Numerical Methods in Engineering</i> , 2017 , 111, 1003-1024	2.4	14
243	Acoustic emission and damage mode correlation in textile reinforced PPS composites. <i>Composite Structures</i> , 2017 , 163, 399-409	5.3	41
242	Stochastic characterisation methodology for 3-D textiles based on micro-tomography. <i>Composite Structures</i> , 2017 , 173, 44-52	5.3	31
241	Nano-engineered Carbon Fibre-Reinforced Composites: Challenges and Opportunities 2017 , 117-135		
240	On the variability of mesoscale permeability of a 2/2 twill carbon fabric induced by variability of the internal geometry. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 101, 394-407	8.4	19
239	Modelling of thermoplastic polymer failure in fiber reinforced composites. <i>Composite Structures</i> , 2017 , 163, 293-301	5.3	13
238	Do high frequency acoustic emission events always represent fibre failure in CFRP laminates?. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 103, 230-235	8.4	61
237	Variability of flax fibre morphology and mechanical properties in injection moulded short straw flax fibre-reinforced PP composites. <i>Journal of Composite Materials</i> , 2017 , 51, 3337-3349	2.7	1

236	Strength Analysis of Unidirectional Composites to Explain Fiber Bundle Splitting. <i>Journal of the Japan Society for Composite Materials</i> , 2017 , 43, 213-218	0.1	
235	Prediction of linear and non-linear behavior of 3D woven composite using mesoscopic voxel models reconstructed from X-ray micro-tomography. <i>Composite Structures</i> , 2017 , 179, 568-579	5.3	67
234	Identification of the flax fibre modulus based on an impregnated quasi-unidirectional fibre bundle test and X-ray computed tomography. <i>Composites Science and Technology</i> , 2017 , 151, 124-130	8.6	14
233	On the stochastic variations of intra-tow permeability induced by internal geometry variability in a 2/2 twill carbon fabric. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 101, 444-458	8.4	16
232	Quantification of micro-CT images of textile reinforcements 2017 ,		4
231	Fatigue Limit: A Link to Quasi-Static Damage? 2017 , 87-106		
230	2017 ,		6
229	Internal geometry of woven composite laminates with fuzzy carbon nanotube grafted fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 88, 295-304	8.4	24
228	Hierarchical lightweight composite materials for structural applications. <i>MRS Bulletin</i> , 2016 , 41, 672-677	3.2	33
227	Carbon Fiber Composites Based on Multi-Phase Epoxy/PES Matrices with Carbon Nanotubes: Morphology and Interlaminar Fracture Toughness Characterization. <i>Advanced Engineering Materials</i> , 2016 , 18, 2040-2046	3.5	9
226	Strain mapping at the micro-scale in hierarchical polymer composites with aligned carbon nanotube grafted fibers. <i>Composites Science and Technology</i> , 2016 , 137, 24-34	8.6	29
225	Micro-CT analysis of internal geometry of chopped carbon fiber tapes reinforced thermoplastics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 91, 211-221	8.4	47
224	Microstructural analysis using X-ray computed tomography (CT) in flax/epoxy composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 139, 012026	0.4	2
223	Implementation of Convergence in Adaptive Global Digital Image Correlation. <i>Experimental Mechanics</i> , 2016 , 56, 797-811	2.6	4
222	Cluster analysis of acoustic emission signals for 2D and 3D woven carbon fiber/epoxy composites. <i>Journal of Composite Materials</i> , 2016 , 50, 1921-1935	2.7	49
221	Influence of oxidation on steel fiber yarn and knitted fabric properties. <i>Journal of Industrial Textiles</i> , 2016 , 45, 1516-1529	1.6	2
220	Predicting permeability based on flow simulations and textile modelling techniques: Comparison with experimental values and verification of FlowTex solver using Ansys CFX. <i>Journal of Composite Materials</i> , 2016 , 50, 601-615	2.7	23
219	Experimentally validated stochastic geometry description for textile composite reinforcements. <i>Composites Science and Technology</i> , 2016 , 122, 122-129	8.6	44

218	Computation of permeability of a non-crimp carbon textile reinforcement based on X-ray computed tomography images. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 81, 289-295	8.4	38
217	Modeling of elastic properties of cell-wall material in nanoclay-reinforced foams. <i>Journal of Cellular Plastics</i> , 2016 , 52, 107-130	1.5	2
216	Steel fibre knitted fabric for automotive glass forming: Variations of the fabric thickness on the mould and glass optical quality. <i>Journal of Industrial Textiles</i> , 2016 , 45, 693-706	1.6	1
215	Damage accumulation in textile composites 2016 , 41-59		6
214	On the closed form expression of the Mori-Tanaka theory prediction for the engineering constants of a unidirectional fiber-reinforced ply. <i>Composite Structures</i> , 2016 , 142, 1-6	5.3	22
213	Full-field strain measurements at the micro-scale in fiber-reinforced composites using digital image correlation. <i>Composite Structures</i> , 2016 , 140, 192-201	5.3	80
212	The Master SN curve approach [A hybrid multi-scale fatigue simulation of short fiber reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 91, 510-518	8.4	30
211	A comparative study of twill weave reinforced composites under tension-tension fatigue loading: Experiments and meso-modelling. <i>Composite Structures</i> , 2016 , 135, 306-315	5.3	30
210	Compressibility of carbon fabrics with needleless electrospun PAN nanofibrous interleaves. <i>EXPRESS Polymer Letters</i> , 2016 , 10, 25-35	3.4	27
209	Towards the Development of a Global Continuous DIC Procedure?. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 295-301	0.3	
208	The Numerical Prediction of the Tensile Behaviour of Multilayer Woven Tapes Made by Multifilament Yarns 2016 , 69-80		5
207	A feasibility study of the Master SN curve approach for short fiber reinforced composites. <i>International Journal of Fatigue</i> , 2016 , 91, 264-274	5	21
206	Mean-field based micro-mechanical modelling of short wavy fiber reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 91, 472-483	8.4	16
205	Multi-scale modelling strategy for textile composites based on stochastic reinforcement geometry. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 310, 906-934	5.7	19
204	Impact and post impact behavior of fabric reinforced geopolymer composite. <i>Construction and Building Materials</i> , 2016 , 127, 111-124	6.7	20
203	A statistical treatment of the loss of stiffness during cyclic loading for short fiber reinforced injection molded composites. <i>Composites Part B: Engineering</i> , 2016 , 103, 40-50	10	12
202	Mode I fatigue fracture toughness of woven laminates: Nesting effect. <i>Composite Structures</i> , 2015 , 133, 226-234	5.3	5
201	Full-field strain measurements and meso-FE modelling of hybrid carbon/self-reinforced polypropylene. <i>Composite Structures</i> , 2015 , 132, 864-873	5.3	18

200	Modelling high-cycle fatigue of textile composites on the unit cell level 2015 , 327-349		0
199	Stress magnification due to carbon nanotube agglomeration in composites. <i>Composite Structures</i> , 2015 , 133, 246-256	5.3	34
198	Correlation of microstructure and mechanical properties of various fabric reinforced geo-polymer composites after exposure to elevated temperature. <i>Ceramics International</i> , 2015 , 41, 12115-12129	5.1	29
197	Numerical modelling of forming of a non-crimp 3D orthogonal weave E-glass composite reinforcement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 72, 207-218	8.4	41
196	Inter-fiber stresses in composites with carbon nanotube grafted and coated fibers. <i>Composites Science and Technology</i> , 2015 , 114, 79-86	8.6	43
195	Micro-CT analysis of internal structure of sheared textile composite reinforcement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 73, 45-54	8.4	43
194	Eliminating the volume redundancy of embedded elements and yarn interpenetrations in meso-finite element modelling of textile composites. <i>Computers and Structures</i> , 2015 , 152, 142-154	4.5	35
193	Nesting effect on the mode I fracture toughness of woven laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 74, 166-173	8.4	14
192	Non-symmetric stiffness tensor prediction by the Mori-Tanaka scheme [Comments on the article Effective anisotropic stiffness of inclusions with debonded interface for Eshelby-based models] [Composite Structures 131 (2015) 692-706]. <i>Composite Structures</i> , 2015 , 134, 1118-1119	5.3	7
191	Assessment of the mechanical behaviour of glass fibre composites with a tough polydicyclopentadiene (PDCPD) matrix. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 78, 191-200	8.4	22
190	Effective anisotropic stiffness of inclusions with debonded interface for Eshelby-based models. <i>Composite Structures</i> , 2015 , 131, 692-706	5.3	27
189	FROM A VIRTUAL TEXTILE TO A VIRTUAL WOVEN COMPOSITE. <i>Computational and Experimental Methods in Structures</i> , 2015 , 109-139		2
188	Correlation of acoustic emission with optically observed damage in a glass/epoxy woven laminate under tensile loading. <i>Composite Structures</i> , 2015 , 123, 45-53	5.3	67
187	A Self Adaptive Global Digital Image Correlation Algorithm. <i>Experimental Mechanics</i> , 2015 , 55, 361-378	2.6	61
186	Modelling evidence of stress concentration mitigation at the micro-scale in polymer composites by the addition of carbon nanotubes. <i>Carbon</i> , 2015 , 82, 184-194	10.4	60
185	Quantification of the internal structure and automatic generation of voxel models of textile composites from X-ray computed tomography data. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 69, 150-158	8.4	117
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