Andrew C Long

List of Publications by Year
in descending order

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42 papers	1,208 citations	471061 17 h-index	414034 32 g-index
43 all docs	43 docs citations	43 times ranked	860 citing authors

#	Article	IF	Citations
1	Modelling and Simulating Textile Structures Using TexGen. Advanced Materials Research, 0, 331, 44-47.	0.3	119
2	Finite element forming simulation for non-crimp fabrics using a non-orthogonal constitutive equation. Composites Part A: Applied Science and Manufacturing, 2005, 36, 1079-1093.	3.8	103
3	Geometrical modelling of 3D woven reinforcements for polymer composites: Prediction of fabric permeability and composite mechanical properties. Composites Part A: Applied Science and Manufacturing, 2014, 56, 150-160.	3.8	99
4	Automated geometric modelling of textile structures. Textile Reseach Journal, 2012, 82, 1689-1702.	1.1	83
5	Finite element modelling of fabric compression. Modelling and Simulation in Materials Science and Engineering, 2008, 16, 035010.	0.8	72
6	Multi-scale modelling of strongly heterogeneous 3D composite structures using spatial Voronoi tessellation. Journal of the Mechanics and Physics of Solids, 2016, 88, 50-71.	2.3	57
7	Finite element modelling of fabric shear. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 015008.	0.8	54
8	Influence of stochastic variations in the fibre spacing on the permeability of bi-directional textile fabrics. Composites Part A: Applied Science and Manufacturing, 2006, 37, 679-694.	3.8	53
9	Active control of the vacuum infusion process. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1271-1287.	3.8	53
10	Numerical prediction of in-plane permeability for multilayer woven fabrics with manufacture-induced deformation. Composites Part A: Applied Science and Manufacturing, 2015, 77, 266-274.	3.8	51
11	Rate dependent modelling of the forming behaviour of viscous textile composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1719-1726.	3.8	49
12	Influence of stochastic fibre angle variations on the permeability of bi-directional textile fabrics. Composites Part A: Applied Science and Manufacturing, 2006, 37, 122-132.	3.8	37
13	Meso-scale modelling of 3D woven composite T-joints with weave variations. Composites Science and Technology, 2019, 171, 171-179.	3.8	37
14	Experimental assessment of the mechanical behaviour of 3D woven composite T-joints. Composites Part B: Engineering, 2018, 154, 108-113.	5.9	33
15	Transmission of ultraviolet light through reinforcement fabrics and its effect on ultraviolet curing of composite laminates. Polymer Composites, 2008, 29, 818-829.	2.3	28
16	Analysis of pressure profile and flow progression in the vacuum infusion process. Composites Science and Technology, 2009, 69, 1458-1464.	3.8	27
17	An analytical model for through-thickness permeability of woven fabric. Textile Reseach Journal, 2012, 82, 492-501.	1.1	24
18	Experimental study of dynamic air permeability for woven fabrics. Textile Reseach Journal, 2012, 82, 920-930.	1.1	23

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19	Through-thickness permeability study of orthogonal and angle-interlock woven fabrics. Journal of Materials Science, 2015, 50, 1257-1266.	1.7	18
20	Experimental measurement and predictive modelling of bending behaviour for viscous unidirectional composite materials. International Journal of Material Forming, 2010, 3, 1253-1266.	0.9	17
21	Through-thickness air permeability of woven fabric under low pressure compression. Textile Reseach Journal, 2015, 85, 1732-1742.	1.1	16
22	3D mathematical modelling for robotic pick up of textile composites. Composites Part B: Engineering, 2009, 40, 705-713.	5.9	15
23	Through-thickness permeability modelling of woven fabric under out-of-plane deformation. Journal of Materials Science, 2014, 49, 7563-7574.	1.7	15
24	Geometric modeling of 3D woven preforms in composite T-joints. Textile Reseach Journal, 2018, 88, 1862-1875.	1.1	15
25	A finite element approach to the modelling of fabric mechanics and its application to virtual fabric design and testing. Journal of the Textile Institute, 2012, 103, 1063-1076.	1.0	14
26	Effect of fibre architecture on tensile pull-off behaviour of 3D woven composite T-joints. Composite Structures, 2020, 242, 112194.	3.1	13
27	Prediction of textile geometry using an energy minimization approach. Journal of Industrial Textiles, 2012, 41, 345-369.	1.1	12
28	Composites Forming. , 2007, , 61-79.		10
29	Through-thickness permeability of woven fabric under increasing air pressure: Theoretical framework and simulation. Textile Reseach Journal, 2017, 87, 1631-1642.	1.1	8
30	Influence of the micro-structure on saturated transverse flow in fibre arrays. Journal of Composite Materials, 2018, 52, 2463-2475.	1.2	8
31	Normalisation Of Shear Test Data for Rate-Independent Compressible Fabrics. AIP Conference Proceedings, 2007, , .	0.3	7
32	Mapping of the fluid distribution in impregnated reinforcement textiles using Magnetic Resonance Imaging: Application and discussion. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1369-1379.	3.8	7
33	Energy Analysis of Reinforcement Deformations during Viscous Textile Composite Forming. AIP Conference Proceedings, 2007, , .	0.3	6
34	Mapping of the fluid distribution in impregnated reinforcement textiles using Magnetic Resonance Imaging: Methods and issues. Composites Part A: Applied Science and Manufacturing, 2011, 42, 265-273.	3.8	6
35	A novel criterion for the prediction of meso-scale defects in textile preforming. Composite Structures, 2019, 226, 111263.	3.1	6
36	Predictive FE Modelling of Prepreg Forming to Determine Optimum Processing Conditions. AIP Conference Proceedings, 2007, , .	0.3	3

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37	A solution for transverse thermal conductivity of composites with quadratic or hexagonal unidirectional fibres. Science and Engineering of Composite Materials, 2014, 21, 99-109.	0.6	2
38	A predictive approach to simulating the forming of viscous textile composite sheet. Revue Europeenne Des Elements, 2005, 14, 613-631.	0.1	1
39	Influence of Hydroxyethyl Cellulose Treatment on the Mechanical Properties of Jute Fibres, Yarns, and Composites. Conference Papers in Materials Science, 2013, 2013, 1-6.	0.1	1
40	Large Deformation Modelling of Tight Woven Fabric under High Air Pressure. Journal of Engineered Fibers and Fabrics, 2015, 10, 155892501501000.	0.5	1
41	Novel textile preforming for optimised fibre architectures. IOP Conference Series: Materials Science and Engineering, 2018, 406, 012050.	0.3	1
42	Contributions of Stepan V Lomov to the research and development of composite materials. Journal of Composite Materials, 2020, 54, 4723-4747.	1.2	1