

Jonathan P-H Belnoue

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,094
citations

361296

20
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414303

32
g-index

51
all docs

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docs citations

51
times ranked

952
citing authors

#	ARTICLE	IF	CITATIONS
1	Revising testing of composite precursors – A new framework for data capture in complex multi-material systems. Composites Part A: Applied Science and Manufacturing, 2022, 152, 106697.	3.8	3
2	Dry Textile Forming Simulations: A Benchmarking Exercise. Frontiers in Materials, 2022, 9, .	1.2	5
3	Adaptive Real-Time Characterisation of Composite Precursors in Manufacturing. Frontiers in Materials, 2022, 9, .	1.2	1
4	Lab-based in-situ micro-CT observation of gaps in prepreg laminates during consolidation and cure. Composites Part A: Applied Science and Manufacturing, 2021, 140, 106180.	3.8	14
5	Consolidation-driven wrinkling in carbon/epoxy woven fabric prepregs: An experimental and numerical study. Composites Part A: Applied Science and Manufacturing, 2021, 143, 106298.	3.8	15
6	On the physical relevance of power law-based equations to describe the compaction behaviour of resin infused fibrous materials. International Journal of Mechanical Sciences, 2021, 199, 106425.	3.6	7
7	Hypo-viscoelastic modelling of in-plane shear in UD thermoset prepregs. Composites Part A: Applied Science and Manufacturing, 2021, 146, 106400.	3.8	10
8	Compaction behaviour of continuous fibre-reinforced thermoplastic composites under rapid processing conditions. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106549.	3.8	10
9	–Un-forming–fibre-steered preforms: Towards fast and reliable production of complex composites parts. Composites Science and Technology, 2021, 216, 109060.	3.8	3
10	MODELLING COMPACTION BEHAVIOR OF TOUGHENED PREPREG DURING AUTOMATED FIBRE PLACEMENT. , 2021, , .		0
11	Mitigating forming defects by local modification of dry preforms. Composites Part A: Applied Science and Manufacturing, 2020, 128, 105643.	3.8	20
12	A rapid multi-scale design tool for the prediction of wrinkle defect formation in composite components. Materials and Design, 2020, 187, 108388.	3.3	19
13	Predicting consolidation-induced wrinkles and their effects on composites structural performance. International Journal of Material Forming, 2020, 13, 907-921.	0.9	5
14	Modelling defect formation in textiles during the double diaphragm forming process. Composites Part B: Engineering, 2020, 202, 108357.	5.9	40
15	Numerical modelling of compaction induced defects in thick 2D textile composites. Materials and Design, 2020, 196, 109088.	3.3	21
16	Virtual Un-manufacturing of Fibre-steered Preforms for Complex Geometry Composites. Procedia Manufacturing, 2020, 47, 197-201.	1.9	1
17	Experimental characterisation of the in-plane shear behaviour of UD thermoset prepregs under processing conditions. Composites Part A: Applied Science and Manufacturing, 2020, 133, 105865.	3.8	23
18	A numerical study of variability in the manufacturing process of thick composite parts. Composite Structures, 2019, 208, 23-32.	3.1	26

#	ARTICLE	IF	CITATIONS
19	Consolidation-Driven Defect Generation in Thick Composite Parts. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	1.3	68
20	High fidelity modelling of the compression behaviour of 2D woven fabrics. International Journal of Solids and Structures, 2018, 154, 104-113.	1.3	38
21	Modelling process induced deformations in 0/90 non-crimp fabrics at the meso-scale. Composites Science and Technology, 2018, 168, 104-110.	3.8	24
22	Multi-scale modelling of non-uniform consolidation of uncured toughened unidirectional prepregs. AIP Conference Proceedings, 2018, , .	0.3	1
23	Understanding and predicting defect formation in automated fibre placement pre-preg laminates. Composites Part A: Applied Science and Manufacturing, 2017, 102, 196-206.	3.8	85
24	An experimental investigation of the consolidation behaviour of uncured prepregs under processing conditions. Journal of Composite Materials, 2017, 51, 1911-1924.	1.2	45
25	Cohesive/adhesive failure interaction in ductile adhesive joints Part I: A smeared-crack model for cohesive failure. International Journal of Adhesion and Adhesives, 2016, 68, 359-368.	1.4	24
26	Cohesive/adhesive failure interaction in ductile adhesive joints Part II: Quasi-static and fatigue analysis of double lap-joint specimens subjected to through-thickness compressive loading. International Journal of Adhesion and Adhesives, 2016, 68, 369-378.	1.4	22
27	A novel hyper-viscoelastic model for consolidation of toughened prepregs under processing conditions. Mechanics of Materials, 2016, 97, 118-134.	1.7	54
28	Coupled Damage-Plasticity Modelling of Ductile Failure in an Aluminium Alloy. Applied Mechanics and Materials, 2015, 784, 266-273.	0.2	1
29	A nonlocal coupled damage-plasticity model for the analysis of ductile failure. International Journal of Plasticity, 2015, 64, 56-75.	4.1	73
30	Analysis of the internal structure and lattice (mis)orientation in individual grains of deformed CP nickel polycrystals by synchrotron X-ray micro-diffraction and microscopy. International Journal of Fatigue, 2012, 42, 1-13.	2.8	13
31	An eigenstrain-based finite element model and the evolution of shot peening residual stresses during fatigue of GW103 magnesium alloy. International Journal of Fatigue, 2012, 42, 284-295.	2.8	51
32	A damage function formulation for nonlocal coupled damage-plasticity model of ductile metal alloys. European Journal of Mechanics, A/Solids, 2012, 34, 63-77.	2.1	11
33	Residual stress measurement in thin films at sub-micron scale using Focused Ion Beam milling and imaging. Thin Solid Films, 2012, 520, 2073-2076.	0.8	42
34	Analysis of strain error sources in micro-beam Laue diffraction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 660, 130-137.	0.7	28
35	Mapping the dislocation sub-structure of deformed polycrystalline Ni by scanning microbeam diffraction topography. Scripta Materialia, 2011, 64, 884-887.	2.6	15
36	A synchrotron tomographic energy-dispersive diffraction imaging study of the aerospace alloy Ti 6246. Journal of Applied Crystallography, 2011, 44, 150-157.	1.9	12

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37	Strain tomography of polycrystalline zirconia dental prostheses by synchrotron X-ray diffraction. Acta Materialia, 2011, 59, 2501-2513.	3.8	42
38	Effect of microstructures and texture development on tensile properties of Mg-10Gd-3Y alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2250-2258.	2.6	34
39	Residual stress measurement in thin films using the semi-destructive ring-core drilling method using Focused Ion Beam. Procedia Engineering, 2011, 10, 2190-2195.	1.2	21
40	The use of coupled nonlocal damage-plasticity to predict crack growth in ductile metal plates. Engineering Fracture Mechanics, 2010, 77, 1721-1729.	2.0	19
41	Evaluation of the overload effect on fatigue crack growth with the help of synchrotron XRD strain mapping. Engineering Fracture Mechanics, 2010, 77, 3216-3226.	2.0	38
42	Triaxial residual strains in a railway rail measured by neutron diffraction. Journal of Strain Analysis for Engineering Design, 2009, 44, 563-568.	1.0	19
43	Eigenstrain analysis of non-uniformly shaped shot-peened samples. Procedia Engineering, 2009, 1, 151-154.	1.2	4
44	Crack tip deformation fields and fatigue crack growth rates in Ti-6Al-4V. International Journal of Fatigue, 2009, 31, 1771-1779.	2.8	50
45	Consistent tangent stiffness for local-nonlocal damage modelling of metals. Procedia Engineering, 2009, 1, 177-180.	1.2	7
46	Crystal plasticity and hardening: A dislocation dynamics study. Procedia Engineering, 2009, 1, 241-244.	1.2	14
47	Synchrotron investigations of non-uniformly shaped shot-peened samples. Zeitschrift für Kristallographie, Supplement, 2009, 2009, 315-320.	0.5	3
48	Modeling Crack Initiation and Propagation in Nickel Base Superalloys. Key Engineering Materials, 2007, 348-349, 53-56.	0.4	0
49	A One-Dimensional Nonlocal Damage-Plasticity Model for Ductile Materials. International Journal of Fracture, 2007, 144, 53-60.	1.1	13
50	Modelling of the In-Plane Shear Behavior of Uncured Thermoset Prepreg. , 0, , .		0
51	A New Approach to Measuring Local Properties of Preforms Enhanced for Formability. Frontiers in Materials, 0, 9, , .	1.2	0