

Pascal Hubert

List of Publications by Year in descending order

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101
papers

3,586
citations

126901

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149686

56
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102
all docs

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docs citations

102
times ranked

3413
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotube-polymer interactions in nanocomposites: A review. <i>Composites Science and Technology</i> , 2011, 72, 72-84.	7.8	409
2	Enhancement of mechanical performance of epoxy/carbon fiber laminate composites using single-walled carbon nanotubes. <i>Composites Science and Technology</i> , 2011, 71, 1569-1578.	7.8	207
3	Modeling the elastic properties of carbon nanotube array/polymer composites. <i>Composites Science and Technology</i> , 2006, 66, 387-396.	7.8	113
4	Aspects of the Compaction of Composite Angle Laminates: An Experimental Investigation. <i>Journal of Composite Materials</i> , 2001, 35, 2-26.	2.4	112
5	Helical carbon nanotube arrays: mechanical properties. <i>Composites Science and Technology</i> , 2002, 62, 419-428.	7.8	110
6	Carbon nanotube-reinforced composites as structural materials for microactuators in microelectromechanical systems. <i>Nanotechnology</i> , 2006, 17, 4895-4903.	2.6	106
7	Characterization Methodology of Thermoset Resins for the Processing of Composite Materials - Case Study: CYCOM 890RTM Epoxy Resin. <i>Journal of Composite Materials</i> , 2010, 44, 1397-1415.	2.4	103
8	Cure shrinkage characterization and modeling of a polyester resin containing low profile additives. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 994-1009.	7.6	91
9	A two-dimensional flow model for the process simulation of complex shape composite laminates. <i>International Journal for Numerical Methods in Engineering</i> , 1999, 44, 1-26.	2.8	90
10	Correlation between Young's modulus and impregnation quality of epoxy-impregnated SWCNT buckypaper. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1184-1191.	7.6	85
11	Helical carbon nanotube arrays: thermal expansion. <i>Composites Science and Technology</i> , 2003, 63, 1571-1579.	7.8	84
12	A Review of Flow and Compaction Modelling Relevant to Thermoset Matrix Laminate Processing. <i>Journal of Reinforced Plastics and Composites</i> , 1998, 17, 286-318.	3.1	83
13	Modelling of the carbon nanotube bridging effect on the toughening of polymers and experimental verification. <i>Composites Science and Technology</i> , 2010, 70, 1537-1543.	7.8	82
14	Toughening of Epoxy Matrices with Reduced Single-Walled Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2309-2317.	8.0	77
15	Cure shrinkage characterization of an epoxy resin system by two in situ measurement methods. <i>Polymer Composites</i> , 2010, 31, 1603-1610.	4.6	71
16	Investigation of process-induced strains development by fibre Bragg grating sensors in resin transfer moulded composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 274-282.	7.6	71
17	Resistance welding of thermoplastic composites skin/stringer joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 2541-2552.	7.6	61
18	Self-consistent properties of carbon nanotubes and hexagonal arrays as composite reinforcements. <i>Composites Science and Technology</i> , 2003, 63, 1349-1358.	7.8	59

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19	Mechanical characterisation and modelling of randomly oriented strand architecture and their hybrids – A general review. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 548-580.	3.1	57
20	Thermal, oxygen barrier and mechanical properties of polylactide–organoclay nanocomposites. <i>Composites Science and Technology</i> , 2013, 82, 47-53.	7.8	52
21	Piezoresistance in Polymer Nanocomposites with High Aspect Ratio Particles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1804-1811.	8.0	51
22	Environmental resistance of flax/bio-based epoxy and flax/polyurethane composites manufactured by resin transfer moulding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 88, 140-147.	7.6	51
23	Experimental study of defect formation during processing of randomly-oriented strand carbon/PEEK composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 77, 301-309.	7.6	49
24	Mass-produced graphene–HDPE nanocomposites: Thermal, rheological, electrical, and mechanical properties. <i>Polymer Engineering and Science</i> , 2019, 59, 675-682.	3.1	48
25	Thermal models for MTM45-1 and Cycom 5320 out-of-autoclave prepreg resins. <i>Journal of Composite Materials</i> , 2013, 47, 341-352.	2.4	46
26	Anisotropic air permeability in out-of-autoclave prepreps: Effect on honeycomb panel evacuation prior to cure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 49, 179-191.	7.6	41
27	Metal mesh heating element size effect in resistance welding of thermoplastic composites. <i>Journal of Composite Materials</i> , 2012, 46, 911-919.	2.4	39
28	Compression moulding of Carbon/PEEK Randomly-Oriented Strands composites: A 2D Finite Element model to predict the squeeze flow behaviour. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 81, 69-77.	7.6	37
29	Fatigue performance characterisation of resistance-welded thermoplastic composites. <i>Composites Science and Technology</i> , 2008, 68, 1759-1765.	7.8	35
30	Synthesis and characterization of carbon nanotube-reinforced epoxy: Correlation between viscosity and elastic modulus. <i>Composites Science and Technology</i> , 2009, 69, 2274-2280.	7.8	35
31	Characterization of flax/epoxy prepreps before and after cure. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 777-785.	3.1	35
32	Carbon nanotube-reinforced carbon fibre-epoxy composites manufactured by resin film infusion. <i>Composites Science and Technology</i> , 2018, 166, 169-175.	7.8	35
33	An experimental investigation of class A surface finish of composites made by the resin transfer molding process. <i>Composites Science and Technology</i> , 2007, 67, 3176-3186.	7.8	34
34	Experimental investigation of high strain-rate behaviour of fabric composites. <i>Composite Structures</i> , 2013, 106, 264-269.	5.8	34
35	Quantitative Dispersion Analysis of Inclusions in Polymer Composites. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 35-41.	8.0	34
36	Enhancement of fracture toughness of carbon fiber laminated composites using multi wall carbon nanotubes. <i>Carbon</i> , 2014, 79, 413-423.	10.3	34

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37	Optimization of RTM processing parameters for Class A surface finish. Composites Part B: Engineering, 2008, 39, 1280-1286.	12.0	33
38	Structural health monitoring of a composite skin-stringer assembly using within-the-bond strategy of guided wave propagation. Materials and Design, 2016, 90, 787-794.	7.0	33
39	Fatigue failure characterisation of resistance-welded thermoplastic composites skin/stringer joints. International Journal of Fatigue, 2009, 31, 719-725.	5.7	30
40	Vacuum-bagged composite laminate forming processes: Predicting thickness deviation in complex shapes. Composites Part A: Applied Science and Manufacturing, 2019, 126, 105568.	7.6	30
41	Guided wave scattering behavior in composite bonded assemblies. Composite Structures, 2016, 136, 696-705.	5.8	28
42	Investigation of the dimensional stability of carbon epoxy cylinders manufactured by resin transfer moulding. Composites Part A: Applied Science and Manufacturing, 2010, 41, 116-124.	7.6	27
43	Interaction Stresses in Carbon Nanotube-Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2011, 3, 3425-3431.	8.0	27
44	Use of a simple, inexpensive pressure sensor to measure hydrostatic resin pressure during processing of composite laminates. Polymer Composites, 1999, 20, 581-593.	4.6	26
45	Scale Effects in Carbon Nanostructures: A Self-Similar Analysis. Nano Letters, 2003, 3, 239-243.	9.1	25
46	Interstrand void content evolution in compression moulding of randomly oriented strands (ROS) of thermoplastic composites. Composites Part A: Applied Science and Manufacturing, 2015, 70, 121-131.	7.6	25
47	A systematic study on dispersion stability of carbon nanotube-modified epoxy resins. Carbon, 2015, 81, 251-259.	10.3	25
48	Characterization of resistance-welded thermoplastic composite double-lap joints under static and fatigue loading. Journal of Thermoplastic Composite Materials, 2015, 28, 762-776.	4.2	24
49	Flexural deflection as a measure of van der Waals interaction forces in the CNT array. Composites Science and Technology, 2006, 66, 1125-1131.	7.8	22
50	Optimization of thermoplastic composites resistance welding parameters based on transient heat transfer finite element modeling. Journal of Thermoplastic Composite Materials, 2013, 26, 699-717.	4.2	22
51	Air evacuation during vacuum bag only prepreg processing of honeycomb sandwich structures: In-plane air extraction prior to cure. Composites Part A: Applied Science and Manufacturing, 2015, 68, 365-376.	7.6	22
52	Processing of co-bonded scarf repairs: Void reduction strategies and influence on strength recovery. Composites Part A: Applied Science and Manufacturing, 2016, 84, 236-245.	7.6	21
53	Two-phase simulations of micro heat pipes. Computers and Fluids, 2010, 39, 451-460.	2.5	20
54	Processing out-of-autoclave honeycomb structures: Internal core pressure measurements. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1060-1065.	7.6	20

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55	An experimental technique to characterize interply void formation in unidirectional prepregs. <i>Journal of Composite Materials</i> , 2017, 51, 579-591.	2.4	19
56	Compression molding of Carbon/Polyether ether ketone composites: Squeeze flow behavior of unidirectional and randomly oriented strands. <i>Polymer Composites</i> , 2017, 38, 1828-1837.	4.6	19
57	$\dot{\gamma}$ -Myrcene/isobornyl methacrylate SG1 nitroxide-mediated controlled radical polymerization: synthesis and characterization of gradient, diblock and triblock copolymers. <i>RSC Advances</i> , 2019, 9, 3377-3395.	3.6	19
58	Out-of-autoclave prepreg consolidation: Coupled air evacuation and prepreg impregnation modeling. <i>Journal of Composite Materials</i> , 2016, 50, 1403-1413.	2.4	18
59	Dispersion stability in carbon nanotube modified polymers and its effect on the fracture toughness. <i>Nanotechnology</i> , 2012, 23, 315701.	2.6	17
60	Vacuum bag only co-bonding prepreg skins to aramid honeycomb core. Part I. Model and material properties for core pressure during processing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 72, 228-238.	7.6	17
61	Interaction Stress Measurement Using Atomic Force Microscopy: A Stepwise Discretization Method. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15029-15035.	3.1	16
62	Multiscale finite element analysis of mode I delamination growth in a fabric composite. <i>Composite Structures</i> , 2015, 133, 157-165.	5.8	14
63	Interlaminar shear behaviour of hybrid fibre architectures of randomly oriented strands combined with laminate groups. <i>Composite Structures</i> , 2017, 176, 823-832.	5.8	14
64	Numerical simulations for class A surface finish in resin transfer moulding process. <i>Composites Part B: Engineering</i> , 2012, 43, 819-824.	12.0	13
65	Influence of the reaction stoichiometry on the mechanical and thermal properties of SWCNT-modified epoxy composites. <i>Nanotechnology</i> , 2013, 24, 265701.	2.6	13
66	An interaction stress analysis of nanoscale elastic asperity contacts. <i>Nanoscale</i> , 2012, 4, 157-166.	5.6	12
67	Extensions of the coating approach for topology optimization of composite sandwich structures. <i>Composite Structures</i> , 2020, 252, 112682.	5.8	12
68	Image-based characterization of fibre waviness in a representative vacuum-bagged corner laminate. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 131, 105774.	7.6	12
69	Vacuum-bag-only co-bonding prepreg skins to aramid honeycomb core. Part II. In-situ core pressure response using embedded sensors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 72, 219-227.	7.6	11
70	Dry Synthesis of Binder-Free Ruthenium Nitride-Coated Carbon Nanotubes as a Flexible Supercapacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15112-15121.	8.0	11
71	Effect of Fibre Volume Fraction on Mixed-Mode Fracture of a Fabric Carbon/Epoxy Composite. <i>Applied Composite Materials</i> , 2013, 20, 415-429.	2.5	10
72	Tool interface pressure during the forming of model composite corners. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 151, 106639.	7.6	9

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73	A new finite element method for modeling delamination propagation without additional degrees of freedom. <i>Composite Structures</i> , 2016, 147, 82-98.	5.8	8
74	Finite element modeling of Lamb wave propagation in composite stepped joints. <i>Journal of Reinforced Plastics and Composites</i> , 2016, 35, 796-806.	3.1	8
75	Bulk factor characterization of heated debulked autoclave and out-of-autoclave carbon fibre prepregs. <i>Composites Part B: Engineering</i> , 2021, 219, 108940.	12.0	8
76	Thermo-mechanical properties of 5-harness satin fabric composites. <i>Journal of Composite Materials</i> , 2012, 46, 3121-3136.	2.4	7
77	2.4 Out-of-Autoclave Prepreg Processing. , 2018, , 63-94.		7
78	Relation between volumetric changes of unsaturated polyester resin and surface finish quality of fiberglass/unsaturated polyester composite panels. <i>Polymer Composites</i> , 2011, 32, 1473-1480.	4.6	6
79	Interaction energy and polymer density profile in nanocomposites: a coarse grain simulation based on interaction stress. <i>Polymer Chemistry</i> , 2012, 3, 1158.	3.9	6
80	Effect of Common Chemical Treatments on the Process Kinetics and Mechanical Properties of Flax/Epoxy Composites Manufactured by Resin Infusion. <i>Journal of Polymers and the Environment</i> , 2015, 23, 143-155.	5.0	5
81	Effects of processing conditions on bondline void formation in vacuum bag only adhesive bonding: Modelling, validation and guidelines. <i>International Journal of Adhesion and Adhesives</i> , 2018, 80, 43-51.	2.9	5
82	Tensile behaviour of hybrid fibre architectures of randomly oriented strands combined with laminate groups. <i>Journal of Composite Materials</i> , 2019, 53, 3725-3740.	2.4	5
83	3D topology optimization of sandwich structures with anisotropic shells. <i>Composite Structures</i> , 2022, 285, 115237.	5.8	5
84	Experimental Model of Impact Damage for Guided Wave-Based Inspection of Composites. <i>Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems</i> , 2018, 1, 040801-040801-8.	0.9	4
85	Process modelling of discontinuous long fibre carbon/polyether ether ketone composites: Defect prediction. <i>Journal of Composite Materials</i> , 2019, 53, 2505-2515.	2.4	4
86	Geometric optimization for a thermal microfluidic chip. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 2143-2150.	1.5	3
87	Investigation of a postprocessing method to tailor the mechanical properties of carbon nanotube/polyamide fibers. <i>Journal of Applied Polymer Science</i> , 2013, 130, 4375-4382.	2.6	3
88	A phase separation strategy for enhanced toughness self-assembly graphene-network composites. <i>Composites Science and Technology</i> , 2022, 225, 109503.	7.8	3
89	Elastic Characterization of SWNT-Reinforced Polymer Thin Films Using a Nanoindener-Based Bending Test. , 2008, , .		2
90	Warpage investigation of carbon/PEEK discontinuous long fibre thin panels. <i>Journal of Composite Materials</i> , 2021, 55, 3529-3537.	2.4	2

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91	Selection of Structural Features for the Systematic Study of Guided Wave Propagation and Interaction with Damage. , 0, , .		2
92	Patterning Nanomaterials on Fragile Micromachined Structures using Electron Beam Lithography. Materials Research Society Symposia Proceedings, 2011, 1299, 1.	0.1	1
93	Workplace Safety in Polymer Nanocomposite Research. Materials Research Society Symposia Proceedings, 2012, 1413, 7.	0.1	1
94	Network Formation and Electrical Conduction in Carbon Nanotube Modified Polydimethylsiloxane. Materials Research Society Symposia Proceedings, 2012, 1410, 61.	0.1	1
95	Flow-control and hybridization strategies for thermoplastic stiffened panels of long discontinuous fibers. Journal of Reinforced Plastics and Composites, 2017, 36, 1327-1342.	3.1	1
96	Polymer " Polymer interaction at the nanoscale: An atomic force microscopy study of interaction stress. Polymer Testing, 2019, 77, 105902.	4.8	1
97	Thermomechanical characterization of functionally stabilized nickel-titanium-copper shape memory alloy. Engineering Research Express, 0, , .	1.6	1
98	Characterization of Guided Waves Propagation in a Composite Skin-stringer Assembly. , 0, , .		1
99	Synthesis and Characterization of Nanocomposite Thin Films for MEMS Applications. Materials Research Society Symposia Proceedings, 2009, 1222, 1.	0.1	0
100	Toughening Effect of Single- and Multi-walled Carbon Nanotube on Carbon Fibre Composites. , 2011, , .		0
101	Development of residual stresses during electron beam processing. Journal of Strain Analysis for Engineering Design, 2014, 49, 179-189.	1.8	0