

# Christophe Poilâne

## List of Publications by Year in descending order

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39  
papers

1,310  
citations

567144

15  
h-index

395590

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physico-mechanical performances of flax fiber biobased composites: Retting and process effects. <i>Industrial Crops and Products</i> , 2021, 173, 114110.	2.5	5
2	About Nonlinear Behavior of Unidirectional Plant Fibre Composite. , 2018, , 69-79.		1
3	Assessment of Digital Image Correlation Measurement Accuracy in the Ultimate Error Regime: Improved Models of Systematic and Random Errors. <i>Experimental Mechanics</i> , 2018, 58, 33-48.	1.1	11
4	Temperature effect on the kinetic alumina layer growth on 5086 aluminum substrate. <i>Mechanika</i> , 2018, 23, .	0.3	1
5	Shortcut in DIC error assessment induced by image interpolation used for subpixel shifting. <i>Optics and Lasers in Engineering</i> , 2017, 91, 124-133.	2.0	28
6	Synthesis and characterization of nanocomposites films with graphene oxide and reduced graphene oxide nanosheets. <i>Chinese Journal of Physics</i> , 2017, 55, 412-422.	2.0	27
7	Metrological Analysis of the DIC Ultimate Error Regime. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 191-193.	0.3	0
8	Mechanical behavior study of laminate composite by three-color digital holography. <i>Journal of the European Optical Society-Rapid Publications</i> , 2017, 13, .	0.9	3
9	Influence of two carbon plies on adhesion of unidirectional flax fibers reinforced epoxy composites. <i>Polymer Composites</i> , 2016, 37, 241-253.	2.3	6
10	Ab initio study of chemical bond interactions between covalently functionalized carbon nanotubes via amide, ester and anhydride linkages. <i>Solid State Sciences</i> , 2016, 53, 56-62.	1.5	3
11	About optimal architecture of plant fibre textile composite for mechanical and sorption properties. <i>Composite Structures</i> , 2016, 140, 240-251.	3.1	30
12	Microtomography imaging of an isolated plant fiber: a digital holographic approach. <i>Applied Optics</i> , 2016, 55, A111.	2.1	14
13	Dielectric relaxation phenomena in flax fibers composite. <i>Fibers and Polymers</i> , 2016, 17, 88-96.	1.1	6
14	Improvement by Nanofibers of Load Transfer in Carbon Fiber Reinforced Composites. <i>Fibers</i> , 2015, 3, 134-150.	1.8	3
15	Dielectric analysis of the interfacial polarization of alkali treated woven flax fibers reinforced epoxy composites. <i>Journal of Electrostatics</i> , 2015, 76, 67-72.	1.0	18
16	Effect of ecological treatment on adhesion of woven flax fibers in epoxy matrix. , 2014, , .		0
17	Digital Holographic Projection Tomography for Micrometric Vegetal Fibers: Limiting Factors. , 2014, , .		0
18	Evidence of guided acoustic waves propagating along a micrometric fiber. <i>Applied Physics Letters</i> , 2014, 105, 161906.	1.5	2

#	ARTICLE	IF	CITATIONS
19	Hybrid carbon nanotubeâ€”silica/ polyvinyl alcohol nanocomposites films: preparation and characterisation. Journal of Polymer Research, 2014, 21, 1.	1.2	27
20	Sub-gigahertz laser resonant ultrasound spectroscopy for the evaluation of elastic properties of micrometric fibers. Ultrasonics, 2014, 54, 259-267.	2.1	14
21	Polymer reinforced by flax fibres as a viscoelastoplastic material. Composite Structures, 2014, 112, 100-112.	3.1	85
22	Influence of hygrothermal ageing on the damage mechanisms of flax-fibre reinforced epoxy composite. Composites Part B: Engineering, 2013, 48, 51-58.	5.9	223
23	Influence of textile treatment on mechanical and sorption properties of flax/epoxy composites. Polymer Composites, 2013, 34, 1761-1773.	2.3	34
24	Assessment of Digital Image Correlation Measurement Accuracy in the Ultimate Error Regime: Main Results of a Collaborative Benchmark. Strain, 2013, 49, 483-496.	1.4	66
25	Investigation of crack initiation with a three color digital holographic interferometer. , 2012, , .		2
26	Ab Initio Study of the Size-Dependent Effect on the Covalent Functionalization of Single Walled Carbon Nanotubes with Hydroxyl, Amine and Carboxyl Groups. Journal of Nanoscience and Nanotechnology, 2012, 12, 8635-8639.	0.9	8
27	Size-dependent properties of amino-functionalized single walled carbon nanotubes. Computational and Theoretical Chemistry, 2011, 967, 231-234.	1.1	13
28	Role of Stoneâ€”Wales defects on the functionalization of (8,0) single wall carbon nanotubes by the amine group: Ab initio study. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 120-123.	1.3	8
29	A method for the chemical anchoring of carbon nanotubes onto carbon fibre and its impact on the strength of carbon fibre composites. Journal of Materials Science, 2011, 46, 1322-1327.	1.7	19
30	Influence of water ageing on mechanical properties and damage events of two reinforced composite materials: Flaxâ€”fibres and glassâ€”fibres. Materials & Design, 2011, 32, 788-795.	5.1	359
31	Optimisation d'un prÃ©Ã©mprÃ©gnÃ© linÃ©poxy industriel. Influence de l'orientation des fibres. Revue Des Composites Et Des Materiaux Avances, 2011, 21, 119-128.	0.2	10
32	Use of Functionalized Nanosilica to Improve Thermo-Mechanical Properties of Epoxy Adhesive Joint Bonding Aluminium Substrates. Journal of Nanoscience and Nanotechnology, 2010, 10, 2844-2849.	0.9	12
33	A chemical method to graft carbon nanotubes onto a carbon fiber. Materials Letters, 2008, 62, 394-397.	1.3	101
34	Thickness measurement of nontransparent free films by double-side white-light interferometry: Calibration and experiments. Review of Scientific Instruments, 2006, 77, 055102.	0.6	4
35	Measurement of in-plane displacement fields by a spectral phase algorithm applied to numerical speckle photograph for microtensile tests. EPJ Applied Physics, 2000, 11, 131-145.	0.3	5
36	Analysis of the mechanical behavior of shape memory polymer membranes by nanoindentation, bulging and point membrane deflection tests. Thin Solid Films, 2000, 379, 156-165.	0.8	103

#	ARTICLE	IF	CITATIONS
37	Spectral Phase Algorithm: Competitive way to Measure Rapidly Small Displacements by Numerical Speckle Photography. , 2000, , 83-90.		0
38	Determination of the mechanical properties of thin polyimide films deposited on a GaAs substrate by bulging and nanoindentation tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 262, 101-106.	2.6	20
39	Analysis of the thermomechanical behavior of Tiâ€Ni shape memory alloy thin films by bulging and nanoindentation procedures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 273-275, 727-732.	2.6	39