

Philippe Viot

List of Publications by Year in descending order

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29
papers

857
citations

686830

13
h-index

552369

26
g-index

31
all docs

31
docs citations

31
times ranked

840
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional image correlation from X-ray computed tomography of solid foam. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1253-1265.	3.8	257
2	Polypropylene foam behaviour under dynamic loadings: Strain rate, density and microstructure effects. International Journal of Impact Engineering, 2009, 36, 329-342.	2.4	157
3	Hydrostatic compression on polypropylene foam. International Journal of Impact Engineering, 2009, 36, 975-989.	2.4	60
4	Hyper-elastic properties of the human sternocleidomastoideus muscle in tension. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 15, 131-140.	1.5	43
5	Elastic behavior of multi-scale, open-cell foams. Composites Part B: Engineering, 2013, 44, 172-183.	5.9	40
6	Effect of block copolymer nano-reinforcements on the low velocity impact response of sandwich structures. Composite Structures, 2014, 110, 174-182.	3.1	35
7	Microtomography on polypropylene foam under dynamic loading: 3D analysis of bead morphology evolution. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1266-1281.	3.8	32
8	The influence of acrylate triblock copolymer embedded in matrix on composite structuresâ€™ responses to low-velocity impacts. Composite Structures, 2012, 94, 1471-1481.	3.1	31
9	Multi-scale foam : 3D structure/compressive behaviour relationship of agglomerated cork. Materialia, 2019, 5, 100219.	1.3	29
10	Polymeric foam deformation under dynamic loading by the use of the microtomographic technique. Journal of Materials Science, 2007, 42, 7202-7213.	1.7	28
11	Scale effects on the response of composite structures under impact loading. Engineering Fracture Mechanics, 2008, 75, 2725-2736.	2.0	28
12	Viscoelastic properties of the human sternocleidomastoideus muscle of aged women in relaxation. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 27, 77-83.	1.5	21
13	Foaming of amorphous polymers and blends in supercritical CO ₂ : Solubility versus block copolymers addition. Journal of Cellular Plastics, 2011, 47, 535-548.	1.2	17
14	Impact test deformations of polypropylene foam samples followed by microtomography. Journal of Materials Science, 2006, 41, 1277-1279.	1.7	13
15	Foaming Behaviour and Compressive Properties of Microcellular Nanostructured Polystyrene. Frontiers in Forests and Global Change, 2009, 28, 363-385.	0.6	9
16	Reinforcement of cellular materials with short fibres: Application to a bio-based cork multi-scale foam. Mechanics of Materials, 2020, 142, 103271.	1.7	9
17	A new method for the study of parabolic impact of foam-core sandwich panels. Composites Part B: Engineering, 2019, 167, 717-727.	5.9	7
18	Multiaxial experiments with radial loading paths on a polymeric foam. Polymer Testing, 2018, 67, 441-449.	2.3	6

#	ARTICLE	IF	CITATIONS
19	Behavior under impact of two polyvinyl acetate-polyethylene (PVA-PE) polymers and one elastomer-application to custom-made mouthguards. <i>Dental Materials Journal</i> , 2009, 28, 170-177.	0.8	5
20	Experimental characterization of post rigor mortis human muscle subjected to small tensile strains and application of a simple hyper-viscoelastic model. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 1059-1068.	1.0	5
21	Multiaxial behavior of foams " Experiments and modeling. <i>EPJ Web of Conferences</i> , 2015, 94, 04035.	0.1	4
22	Experimental Investigation and Discrete Element Modelling of Composite Hollow Spheres Subjected to Dynamic Fracture. <i>International Journal of Polymer Science</i> , 2017, 2017, 1-15.	1.2	4
23	Numerical modelling of foam-core sandwich panels with nano-reinforced composite facesheets. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 1166-1191.	2.0	4
24	Comportement de mousses polymériques en compression dynamique. <i>Revue Des Composites Et Des Matériaux Avances</i> , 2003, 13, 283-292.	0.2	4
25	Finite element modelling of the low velocity impact response of composite plates with block copolymer nano-reinforcements. <i>International Journal of Automotive Composites</i> , 2016, 2, 3.	0.1	3
26	Strain-rate dependency of bio-based cellular materials under a large range of temperature. <i>EPJ Web of Conferences</i> , 2021, 250, 01035.	0.1	3
27	Experimental Study of Mouth Guards Response under Impact Loading. <i>Applied Mechanics and Materials</i> , 0, 83, 78-84.	0.2	2
28	<i>Ex-Situ</i> Study of Polymeric Syntactic Foams Mechanical Response Under Compression Loading: Effects of Foam Microstructure Using Microtomography Techniques. <i>Advanced Materials Research</i> , 0, 146-147, 42-62.	0.3	1
29	Comportement des matériaux cellulaires sous sollicitations dynamiques. Partie 2 : approche multi-échelles. <i>Mécanique Et Industries</i> , 2011, , .	0.2	0