

Damien Durville

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

632
citations

840776

11
h-index

996975

15
g-index

17
all docs

17
docs citations

17
times ranked

476
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of the mechanical behaviour of woven fabrics at the scale of fibers. International Journal of Material Forming, 2010, 3, 1241-1251.	2.0	160
2	Numerical simulation of entangled materials mechanical properties. Journal of Materials Science, 2005, 40, 5941-5948.	3.7	119
3	Contact-friction modeling within elastic beam assemblies: an application to knot tightening. Computational Mechanics, 2012, 49, 687-707.	4.0	103
4	A multilayer braided scaffold for Anterior Cruciate Ligament: Mechanical modeling at the fiber scale. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 12, 184-196.	3.1	57
5	Finite element simulation of the mechanical behavior of synthetic braided ropes and validation on a tensile test. International Journal of Solids and Structures, 2015, 58, 106-116.	2.7	47
6	Determining the initial configuration and characterizing the mechanical properties of 3D angle-interlock fabrics using finite element simulation. International Journal of Solids and Structures, 2018, 154, 97-103.	2.7	34
7	Mechanical behaviour of a fibrous scaffold for ligament tissue engineering: Finite elements analysis vs. X-ray tomography imaging. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 40, 222-233.	3.1	29
8	The influence of torsion on braided rope performance, modelling and tests. Applied Ocean Research, 2016, 59, 417-423.	4.1	17
9	Finite element simulation of a steel cable - rubber composite under bending loading: Influence of rubber penetration on the stress distribution in wires. International Journal of Solids and Structures, 2019, 160, 158-167.	2.7	14
10	Transverse compression behavior of textile rovings: finite element simulation and experimental study. Journal of Materials Science, 2013, 48, 462-472.	3.7	12
11	A Finite Element Approach of the Behaviour of Woven Materials at Microscopic Scale. Lecture Notes in Applied and Computational Mechanics, 2009, , 39-46.	2.2	12
12	Fatigue damage mechanisms in steel cable under bending loading. Engineering Failure Analysis, 2019, 106, 104184.	4.0	9
13	Contact Modelling in Entangled Fibrous Materials. Lecture Notes in Applied and Computational Mechanics, 2011, , 1-22.	2.2	8
14	Modélisation par éléments finis du comportement mécanique de structures textiles : de la fibre au tissu. Revue Européenne Des Elements, 2002, 11, 463-477.	0.1	6
15	Improved Bend Over Sheave Durability of HMPE Ropes for Deep Sea Handling. , 2018, , .		3
16	Simulation numérique du comportement transverse de mâches textiles. Revue Des Composites Et Des Matériaux Avances, 2011, 21, 33-42.	0.6	0