Zoheir Aboura

List of Publications by Year
in descending order

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37 papers	1,288 citations	361413 20 h-index	361022 35 g-index
40 all docs	40 docs citations	40 times ranked	1118 citing authors

#	Article	IF	Citations
1	Understanding the damage mechanisms in 3D layer-to-layer woven composites from thermal and acoustic measurements. Journal of Composite Materials, 2022, 56, 1559-1575.	2.4	3
2	Digital image correlation, acoustic emission and in-situ microscopy in order to understand composite compression damage behavior. Composite Structures, 2021, 258, 113424.	5.8	20
3	Mechanical behavior of carbon-reinforced thermoplastic sandwich composites with several core types during three-point bending tests. Composite Structures, 2021, 262, 113590.	5.8	20
4	Integration of piezoelectric transducers (PZT and PVDF) within polymer-matrix composites for structural health monitoring applications: new success and challenges. International Journal of Smart and Nano Materials, 2020, 11, 343-369.	4.2	26
5	Detection of the key steps during Liquid Resin Infusion manufacturing of a polymer-matrix composite using an in-situ piezoelectric sensor. Materials Today Communications, 2020, 24, 101077.	1.9	16
6	Structural health monitoring of carbon fiber reinforced matrix by the resistance variation method. Journal of Composite Materials, 2020, 54, 3919-3930.	2.4	9
7	Structural health monitoring of polymer-matrix composite using embedded piezoelectric ceramic transducers during several four-points bending tests. Smart Materials and Structures, 2020, 29, 125011.	3.5	17
8	Thermo-Stamping Process of Glass and Carbon-Fibre Reinforced Polymer Composites. Materials Sciences and Applications, 2020, 11, 319-337.	0.4	0
9	A vibration-based identification of elastic properties of stitched sandwich panels. Journal of Composite Materials, 2019, 53, 579-592.	2.4	10
10	Multiaxial loading on a 3D woven carbon fiber reinforced plastic composite using tensile-torsion tests : Identification of the first damage envelope and associated damage mechanisms. Composite Structures, 2019, 227, 111305.	5.8	11
11	On the manufacturing, integration, and wiring techniques of in situ piezoelectric devices for the manufacturing and structural health monitoring of polymerâ€“matrix composites: A literature review. Journal of Intelligent Material Systems and Structures, 2019, 30, 2351-2381.	2.5	13
12	Electrical resistance variation during tensile and self-heating tests conducted on thermoplastic polymer-matrix composites. Composite Structures, 2019, 224, 111001.	5.8	20
13	On the use of in-situ piezoelectric sensors for the manufacturing and structural health monitoring of polymer-matrix composites: A literature review. Composite Structures, 2019, 215, 127-149.	5.8	108
14	Structural health monitoring for GFRP composite by the piezoresistive response in the tufted reinforcements. Composite Structures, 2019, 209, 103-111.	5.8	17
15	Structural health monitoring by the piezoresistive response of tufted reinforcements in sandwich composite panels. Composite Structures, 2019, 210, 109-117.	5.8	19
16	Analysis of the mechanical behavior of composite T-joints reinforced by one side stitching. Composite Structures, 2018, 184, 249-255.	5.8	35
17	Analysis of the impact and compression after impact behavior of tufted laminated composites. Composite Structures, 2018, 184, 352-361.	5.8	45
18	Improvement of the electrical conductivity of carbon fiber reinforced polymer by incorporation of nanofillers and the resulting thermal and mechanical behavior. Journal of Composite Materials, 2018, 52, 1495-1503.	2.4	26

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19	Accurate measurement of in-plane and out-of-plane shear moduli on 3D woven SiC-SiBC material. Composite Structures, 2017, 172, 319-329.	5.8	9
20	A dynamic analysis approach for identifying the elastic properties of unstitched and stitched composite plates. Composite Structures, 2016, 152, 959-968.	5.8	9
21	Study of the Dynamic Response of Polymer-Matrix Composites Using an Innovative Hydraulic Crash Machine. Journal of Dynamic Behavior of Materials, 2015, 1, 359-369.	1.7	6
22	A New Hydraulic Crash Machine for Composite Structures. Journal of Dynamic Behavior of Materials, 2015, 1, 94-100.	1.7	3
23	Experimental investigation of drilling damage and stitching effects on the mechanical behavior of carbon/epoxy composites. International Journal of Machine Tools and Manufacture, 2014, 87, 61-72.	13.4	69
24	Use of diffuse approximation on DIC for early damage detection in 3D carbon/epoxy composites. Composites Science and Technology, 2013, 88, 16-25.	7.8	16
25	Development of thermal insulating and sound absorbing agro-sourced materials from auto linked flax-tows. Industrial Crops and Products, 2011, 34, 921-928.	5.2	51
26	Homogenization of the core layer in stitched sandwich structures. Composites Science and Technology, 2010, 70, 350-355.	7.8	24
27	Impact response of three-dimensional stitched sandwich composite. Composite Structures, 2010, 92, 347-353.	5.8	59
28	Analytical and numerical modeling of mechanical properties of orthogonal 3D CFRP. Composites Science and Technology, 2009, 69, 111-116.	7.8	37
29	Effects of the environmental conditions on the mechanical behaviour of the corrugated cardboard. Composites Science and Technology, 2009, 69, 104-110.	7.8	42
30	Phenomena governing uni-axial tensile behaviour of paperboard and corrugated cardboard. Composite Structures, 2009, 87, 80-92.	5.8	25
31	Optimisation du tissage de composites orthogonaux 3D. Comptes Rendus - Mecanique, 2008, 336, 704-713.	2.1	2
32	Some improvements on the energy absorbed in axial plastic collapse of hollow cylinders. International Journal of Solids and Structures, 2006, 43, 1543-1560.	2.7	32
33	On the mechanical effect of stitch addition in sandwich panel. Composites Science and Technology, 2006, 66, 1385-1398.	7.8	103
34	Elastic behavior of corrugated cardboard: experiments and modeling. Composite Structures, 2004, 63, 53-62.	5.8	119
35	The effect of ageing on the damage events in woven-fibre composite materials under different loading conditions. Composites Science and Technology, 2002, 62, 551-557.	7.8	40
36	A micromechanics model for 3D elasticity and failure of woven-fibre composite materials. Composites Science and Technology, 1999, 59, 505-517.	7.8	124

#	Article	IF	Citations
37	Prediction of the elastic behaviour of hybrid and non-hybrid woven composites. Composites Science and Technology, 1998, 57, 1727-1740.	7.8	66