Elena Correa

List of Publications by Year
in descending order

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33	649	567281 15	580821 25
papers	citations	h-index	g-index

34	34	34	231
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinking of Transversal Interface Cracks Between Fiber and Matrix. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 703-716.	2.2	114
2	Micromechanical view of failure of the matrix in fibrous composite materials. Composites Science and Technology, 2003, 63, 1041-1052.	7.8	91
3	A micromechanical view of inter-fibre failure of composite materials under compression transverse to the fibres. Composites Science and Technology, 2008, 68, 2010-2021.	7.8	53
4	Numerical characterisation of the fibreâ€“matrix interface crack growth in composites under transverse compression. Engineering Fracture Mechanics, 2008, 75, 4085-4103.	4.3	48
5	Effects of the presence of compression in transverse cyclic loading on fibreâ€“matrix debonding in unidirectional composite plies. Composites Part A: Applied Science and Manufacturing, 2007, 38, 2260-2269.	7.6	32
6	Effect of thermal residual stresses on matrix failure under transverse tension at micromechanical level: A numerical and experimental analysis. Composites Science and Technology, 2011, 71, 622-629.	7.8	32
7	Effect of the presence of a secondary transverse load on the inter-fibre failure under tension. Engineering Fracture Mechanics, 2013, 103, 174-189.	4.3	31
8	Numerical analysis of the influence of a nearby fibre on the interface crack growth in composites under transverse tensile load. Engineering Fracture Mechanics, 2016, 168, 58-75.	4.3	28
9	Effect of a secondary transverse load on the inter-fibre failure under compression. Composites Part B: Engineering, 2014, 65, 57-68.	12.0	25
10	Effect of thermal residual stresses on the matrix failure under transverse compression at micromechanical level â€“ A numerical and experimental study. Composites Part A: Applied Science and Manufacturing, 2012, 43, 87-94.	7.6	18
11	Design for a cruciform coupon used for tensile biaxial transverse tests on composite materials. Composites Science and Technology, 2017, 145, 138-148.	7.8	18
12	Micromechanical study on the influence of scale effect in the first stage of damage in composites. Composites Science and Technology, 2018, 160, 1-8.	7.8	18
13	Microscopical observations of inter-fibre failure under tension. Composites Science and Technology, 2018, 155, 213-220.	7.8	18
14	A Device for Biaxial Testing in Uniaxial Machines. Design, Manufacturing and Experimental Results Using Cruciform Specimens of Composite Materials. Experimental Mechanics, 2018, 58, 49-53.	2.0	18
15	The scale effect in composites: An explanation physically based on the different mechanisms of damage involved in failure. Composite Structures, 2021, 257, 113089.	5.8	17
16	Microscopical observations of interface cracks from inter-fibre failure under compression in composite laminates. Composites Part A: Applied Science and Manufacturing, 2018, 110, 76-83.	7.6	14
17	BEM multiscale modelling involving micromechanical damage in fibrous composites. Engineering Analysis With Boundary Elements, 2018, 93, 1-9.	3.7	13
18	Analysis of interface cracks with contact in composites by 2D BEM. WIT Transactions on State-of-the-art in Science and Engineering, 2005, , 189-248.	0.0	13

#	Article	IF	Citations
19	Interaction between fibres in the transverse damage in composites. Engineering Fracture Mechanics, 2020, 239, 107273.	4.3	11
20	Special Issue on Modeling of fracture and damage in composite materials. Engineering Fracture Mechanics, 2016, 168, 1.	4.3	9
21	A study of the influence of a nearby fibre on the interface crack growth under transverse compression in composite materials. Engineering Fracture Mechanics, 2018, 193, 1-16.	4.3	7
22	BEM analysis of inter-fibre failure under compression in composites: comparison between carbon and glass fibre systems. Plastics, Rubber and Composites, 2011, 40, 333-341.	2.0	6
23	Transverse biaxial tests on long fibre reinforced composites. Composite Structures, 2022, 297, 115868.	5.8	5
24	Fabrication stresses inducing cracking of a mould made of copper. Engineering Failure Analysis, 2009, 16, 358-370.	4.0	2
25	Sequential Linear Analysis for the Prediction of the Symmetrical or Non-Symmetrical Character of the Debond Onset and Propagation Along a Fiber-Matrix Interface. Journal of Multiscale Modeling, 2019, 10, 1842004.	1.1	2
26	Modelling fibreâ€“matrix interface debonding and matrix cracking in composite laminates. , 2021, , 243-274.		2
27	Effects of the stress state generated during the manufacturing process of copper anodes on the moulds: Warping and cracking. Engineering Failure Analysis, 2009, 16, 309-320.	4.0	1
28	Numerical study of the inter-fibre failure under biaxial loads. Procedia Engineering, 2011, 10, 2560-2565.	1.2	1
29	Fiberâ€“matrix debonding in composite materials. , 2016, , 97-116.		1
30	2.16 Micromechanics of Interfacial Damage in Composites. , 2018, , 307-341.		1
31	Micromechanical Bases for the Prediction of Failure of the Matrix in Fibrous Composites. , 2003, , .		0
32	Numerical Study of the Progression of the Micromechanical Debonding Damage in Composites. Key Engineering Materials, 2018, 774, 644-649.	0.4	0
33	Numerical analysis of the crack paths produced by fibreâ€“matrix interface failure in cross-ply LFRP laminates. Composite Structures, 2022, 284, 115222.	5.8	0