Jaime Aurelio ViÃ±a Olay

List of Publications by Year
in descending order

39 papers	602 citations	623734 14 h-index	610901 24 g-index
39 all docs	39 docs citations	39 times ranked	475 citing authors

#	Article	IF	Citations
1	Fractography and failure mechanisms in static mode I and mode II delamination testing of unidirectional carbon reinforced composites. Polymer Testing, 2009, 28, 612-617.	4.8	69
2	Influence of temperature on a carbonâ€“fibre epoxy composite subjected to static and fatigue loading under mode-I delamination. International Journal of Solids and Structures, 2012, 49, 2934-2940.	2.7	67
3	Interlaminar crack initiation and growth rate in a carbon-fibre epoxy composite under mode-I fatigue loading. Composites Science and Technology, 2008, 68, 2325-2331.	7.8	63
4	Theoretical and experimental analysis of carbon epoxy asymmetric dcb specimens to characterize mixed mode fracture toughness. Polymer Testing, 2010, 29, 766-770.	4.8	39
5	Preparation and Mechanical Properties of Graphene/Carbon Fiber-Reinforced Hierarchical Polymer Composites. Journal of Composites Science, 2019, 3, 30.	3.0	39
6	Experimental investigation of notch effect and ply number on mechanical behavior of interply hybrid laminates (glass/carbon/epoxy). Composites Part B: Engineering, 2018, 145, 189-196.	12.0	27
7	Influence of Resin Type on the Delamination Behavior of Carbon Fiber Reinforced Composites Under Mode-II Loading. International Journal of Damage Mechanics, 2011, 20, 963-978.	4.2	26
8	Computational models for mode I composite fracture failure: the virtual crack closure technique versusÂtheÂtwo-step extension method. Meccanica, 2010, 45, 297-304.	2.0	24
9	Mixed mode fracture toughness: An empirical formulation for determination in asymmetric DCB specimens. Engineering Structures, 2010, 32, 3699-3703.	5.3	23
10	Numerical and experimental validation of computational models for mode I composite fracture failure. Computational Materials Science, 2009, 45, 993-998.	3.0	21
11	Influence of the matrix constituent on mode I and mode II delamination toughness in fiber-reinforced polymer composites under cyclic fatigue. Mechanics of Materials, 2011, 43, 62-67.	3.2	19
12	Influence of temperature on the delamination process under mode I fracture and dynamic loading of two carbonâ€“epoxy composites. Composites Part B: Engineering, 2015, 68, 207-214.	12.0	18
13	Influence of the Matrix Type on the Mode I Fracture of Carbon-Epoxy Composites Under Dynamic Delamination. Experimental Mechanics, 2011, 51, 293-301.	2.0	17
14	Finite element modelling of mode I delamination specimens by means of implicit and explicit solvers. Polymer Testing, 2012, 31, 404-410.	4.8	17
15	Fatigue delamination, initiation, and growth, under mode I and II of fracture in a carbonâ€fiber epoxy composite. Polymer Composites, 2010, 31, 700-706.	4.6	15
16	Influence of the crack plane asymmetry over GII results in carbon epoxy ENF specimens. Composite Structures, 2012, 94, 1187-1191.	5.8	14
17	Using a statistical model for the analysis of the influence of the type of matrix carbonâ€“epoxy composites on the fatigue delamination under modes I and II of fracture. International Journal of Fatigue, 2013, 56, 54-59.	5.7	13
18	Study of the influence of the type of matrix used in carbon-epoxy composites on fatigue delamination under mode III fracture. Materials and Design, 2020, 186, 108345.	7.0	10

#	Article	IF	Citations
19	Mechanical properties of fibreglass and carbon-fibre reinforced polyetherimide after twenty years of outdoor environmental aging in the city of GijÃ³n (Spain). Composites Communications, 2020, 22, 100522.	6.3	8
20	3-D structured porous carbons with virtually any shape from whey powders. Carbon, 2021, 175, 403-412.	10.3	8
21	Fundamental frequency analysis of functionally graded plates with temperature-dependent properties based on improved exponential-trigonometric two-dimensional higher shear deformation theory. Archive of Applied Mechanics, 2021, 91, 859-881.	2.2	7
22	Fracture behavior under mixed mode I/II static and dynamic loading of ADCB specimens. Journal of Reinforced Plastics and Composites, 2016, 35, 1513-1523.	3.1	6
23	Modelling ENF test procedure by means of the two-step extension method. Influence of friction forces. Polymer Testing, 2011, 30, 856-860.	4.8	5
24	Influence of the Mode Mixity Ratio and Test Procedures on the Total Energy Release Rate in Carbon-Epoxy Laminates. Procedia Engineering, 2011, 10, 953-958.	1.2	5
25	Influence on the delamination phenomenon of matrix type and thermal variations in unidirectional carbon-fiber epoxy composites. Polymer Composites, 2015, 36, 747-755.	4.6	5
26	A study of the effects of the matrix epoxy resin and graphene oxide (GO) manufacturing process on the tensile behaviour of GO-epoxy nanocomposites. Plastics, Rubber and Composites, 2017, 46, 405-412.	2.0	5
27	Influence of the Test Method on the Characterization of the Fatigue Delamination Behavior of a Composite Material under Mixed Mode I/II Fracture. Polymers, 2019, 11, 1788.	4.5	5
28	Influence of the Loading System on Mode I Delamination Results in Carbon-Epoxy Composites. Experimental Techniques, 2014, 38, 53-58.	1.5	4
29	Application of PET/Sepiolite Nanocomposite Trays to Improve Food Quality. Foods, 2021, 10, 1188.	4.3	4
30	Influence of weave type and reinforcement in the fracture behavior of woven fabric reinforced thermoplastic composites. Journal of Materials Science, 2005, 40, 2987-2989.	3.7	3
31	Study of Fatigue Behavior of Epoxyâ€Carbon Composites under Mixed Mode I/II Loading. Advanced Engineering Materials, 2018, 20, 1700569.	3.5	3
32	Finite element analysis of the Longitudinal Half Fixed Beam method for mode III characterization. Composite Structures, 2020, 232, 111546.	5.8	3
33	Study of the Influence of the Type of Aging on the Behavior of Delamination of Adhesive Joints in Carbon-Fiber-Reinforced Epoxy Composites. Materials, 2022, 15, 3669.	2.9	3
34	Low Temperature and Resin Effects on the Mode I Interlaminar Fracture Toughness in Aeronautical Quality Polymer Composites. Proceedings (mdpi), 2018, 2, .	0.2	2
35	Use of a LHFB Device for Testing Mode III in a Composite Laminate. Polymers, 2019, 11, 1243.	4.5	2
36	Symmetric and asymmetric dynamic characterization of modeâ€III fracture in epoxy/unidirectional carbonâ€fibre composites. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 457-465.	3.4	1

#	Article	IF	Citations
37	Shelf Life of Fresh Sliced Sea Bream Pack in PET Nanocomposite Trays. Polymers, 2021, 13, 1974.	4.5	1
38	MOLDABLE AND MACHINABLE POROUS CARBON STRUCTURES OBTAINED FROM WHEY. Dyna (Spain), 2021, 96, 422-428.	0.2	1
39	The effects of inherent solid particulates on the structure and mechanical properties of coal-tar pitch based Câ€“C composites. Journal of Materials Chemistry, 2000, 10, 2637-2641.	6.7	0