

Sofia Teixeira de Freitas

List of Publications by Year in descending order

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62
papers

1,972
citations

185998

28
h-index

276539

41
g-index

63
all docs

63
docs citations

63
times ranked

1226
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage characterization of laminated composites using acoustic emission: A review. Composites Part B: Engineering, 2020, 195, 108039.	5.9	213
2	Clustering of interlaminar and intralaminar damages in laminated composites under indentation loading using Acoustic Emission. Composites Part B: Engineering, 2018, 144, 206-219.	5.9	115
3	Barely visible impact damage assessment in laminated composites using acoustic emission. Composites Part B: Engineering, 2018, 152, 180-192.	5.9	86
4	Compression after multiple low velocity impacts of NCF, 2D and 3D woven composites. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105576.	3.8	72
5	Adhesion Properties of Bonded Composite-to-Aluminium Joints Using Peel Tests. Journal of Adhesion, 2014, 90, 511-525.	1.8	63
6	Investigation of the damage mechanisms for mode I delamination growth in foam core sandwich composites using acoustic emission. Structural Health Monitoring, 2015, 14, 265-280.	4.3	58
7	Interface adhesion assessment of composite-to-metal bonded joints under salt spray conditions using peel tests. Composite Structures, 2017, 164, 68-75.	3.1	58
8	Review on Adhesives and Surface Treatments for Structural Applications: Recent Developments on Sustainability and Implementation for Metal and Composite Substrates. Materials, 2020, 13, 5590.	1.3	58
9	Prediction of delamination growth in laminated composites using acoustic emission and Cohesive Zone Modeling techniques. Composite Structures, 2015, 124, 120-127.	3.1	54
10	Failure analysis of adhesively-bonded skin-to-stiffener joints: Metal-metal vs. composite-metal. Engineering Failure Analysis, 2015, 56, 2-13.	1.8	54
11	Investigation on energy director-less ultrasonic welding of polyetherimide (PEI)- to epoxy-based composites. Composites Part B: Engineering, 2019, 173, 107014.	5.9	48
12	Composite layup effect on the failure mechanism of single lap bonded joints. Composite Structures, 2019, 217, 14-26.	3.1	44
13	Damage characterization of adhesively-bonded Bi-material joints using acoustic emission. Composites Part B: Engineering, 2019, 176, 107356.	5.9	43
14	How pure mode I can be obtained in bi-material bonded DCB joints: A longitudinal strain-based criterion. Composites Part B: Engineering, 2018, 153, 137-148.	5.9	41
15	Testing mechanical performance of adhesively bonded composite joints in engineering applications: an overview. Journal of Adhesion, 2022, 98, 2133-2209.	1.8	40
16	Using passive and active acoustic methods for impact damage assessment of composite structures. Composite Structures, 2019, 226, 111252.	3.1	39
17	On the fracture behaviour of CFRP bonded joints under mode I loading: Effect of supporting carrier and interface contamination. Composites Science and Technology, 2018, 160, 97-110.	3.8	38
18	Prediction of delamination growth in carbon/epoxy composites using a novel acoustic emission-based approach. Journal of Reinforced Plastics and Composites, 2015, 34, 868-878.	1.6	37

#	ARTICLE	IF	CITATIONS
19	Damage assessment of NCF, 2D and 3D woven composites under compression after multiple-impact using acoustic emission. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105833.	3.8	37
20	Stress analysis of double-lap bi-material joints bonded with thick adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2020, 97, 102480.	1.4	35
21	Failure analysis of adhesively-bonded metal-skin-to-composite-stiffener: Effect of temperature and cyclic loading. <i>Composite Structures</i> , 2017, 166, 27-37.	3.1	34
22	The use of acoustic emission and composite peel tests to detect weak adhesion in composite structures. <i>Journal of Adhesion</i> , 2018, 94, 743-766.	1.8	34
23	Susceptor-assisted induction curing behaviour of a two component epoxy paste adhesive for aerospace applications. <i>International Journal of Adhesion and Adhesives</i> , 2017, 75, 155-164.	1.4	33
24	Fatigue Assessment of Full-Scale Retrofitted Orthotropic Bridge Decks. <i>Journal of Bridge Engineering</i> , 2017, 22, .	1.4	33
25	Composite bonded systems for renovations of orthotropic steel bridge decks. <i>Composite Structures</i> , 2010, 92, 853-862.	3.1	32
26	Test method to assess interface adhesion in composite bonding. <i>Applied Adhesion Science</i> , 2015, 3, .	1.5	30
27	From thin to extra-thick adhesive layer thicknesses: Fracture of bonded joints under mode I loading conditions. <i>Engineering Fracture Mechanics</i> , 2019, 218, 106607.	2.0	30
28	Fatigue behavior of bonded and sandwich systems for strengthening orthotropic bridge decks. <i>Composite Structures</i> , 2013, 97, 117-128.	3.1	27
29	Effect of moisture on the adhesion of CFRP-to-steel bonded joints using peel tests. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	0.8	27
30	Acoustic Emission-Based Methodology to Evaluate Delamination Crack Growth Under Quasi-static and Fatigue Loading Conditions. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	1.1	26
31	Acoustic emission based investigation on the effect of temperature and hybridization on drop weight impact and post-impact residual strength of hemp and basalt fibres reinforced polymer composite laminates. <i>Composites Part B: Engineering</i> , 2019, 173, 106962.	5.9	26
32	A review of experimental and theoretical fracture characterization of bi-material bonded joints. <i>Composites Part B: Engineering</i> , 2021, 206, 108537.	5.9	25
33	Structural monitoring of a strengthened orthotropic steel bridge deck using strain data. <i>Structural Health Monitoring</i> , 2012, 11, 558-576.	4.3	24
34	Interlaminar Fracture Toughness Evaluation in Glass/Epoxy Composites Using Acoustic Emission and Finite Element Methods. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 373-384.	1.2	24
35	Delamination characterization in composite laminates using acoustic emission features, micro visualization and finite element modeling. <i>Journal of Composite Materials</i> , 2016, 50, 3133-3145.	1.2	23
36	Unfolding the early fatigue damage process for CFRP cross-ply laminates. <i>International Journal of Fatigue</i> , 2020, 140, 105820.	2.8	23

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37	On the sensitivity of ultrasonic welding of epoxy- to polyetheretherketone (PEEK)-based composites to the heating time during the welding process. Composites Part A: Applied Science and Manufacturing, 2021, 144, 106334.	3.8	22
38	Significantly enhanced structural integrity of adhesively bonded PPS and PEEK composite joints by rapidly UV-irradiating the substrates. Composites Science and Technology, 2020, 199, 108358.	3.8	21
39	Strain-based methodology for mixed-mode I+II fracture: A new partitioning method for bi-material adhesively bonded joints. Journal of Adhesion, 2019, 95, 385-404.	1.8	19
40	Ultrasonic welding of epoxy- to polyetheretherketone- based composites: Investigation on the material of the energy director and the thickness of the coupling layer. Journal of Composite Materials, 2020, 54, 3081-3098.	1.2	16
41	Role of adherend material on the fracture of bi-material composite bonded joints. Composite Structures, 2020, 252, 112643.	3.1	16
42	The effect of modified tannic acid (TA) eco-epoxy adhesives on mode I fracture toughness of bonded joints. Polymer Testing, 2021, 96, 107122.	2.3	15
43	Lightweight Reinforcement Systems for Fatigue-Cracked Orthotropic Bridge Decks. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2013, 23, 458-467.	0.5	13
44	Creep behaviour of steel bonded joints under hygrothermal conditions. International Journal of Adhesion and Adhesives, 2019, 91, 54-63.	1.4	13
45	Out-of-autoclave manufacturing of GLARE panels using resistance heating. Journal of Composite Materials, 2018, 52, 1661-1675.	1.2	12
46	Temperature dependency of the toughening capability of electrospun PA66 nanofibers for carbon/epoxy laminates. Composites Science and Technology, 2021, 216, 109061.	3.8	11
47	Characterization and optimization of hybrid carbon-glass epoxy composites under combined loading. Journal of Composite Materials, 2019, 53, 2593-2605.	1.2	10
48	Enhanced Interface Adhesion by Novel Eco-Epoxy Adhesives Based on the Modified Tannic Acid on Al and CFRP Adherends. Polymers, 2020, 12, 1541.	2.0	10
49	Synthesis and characterization of novel eco-epoxy adhesives based on the modified tannic acid for self-healing joints. Polymer Testing, 2022, 106, 107444.	2.3	10
50	On the influence of glass fiber mat on the mixed-mode fracture of composite-to-metal bonded joints. Composite Structures, 2021, 256, 113109.	3.1	9
51	Lightweight reinforcement systems for orthotropic bridge decks. , 2013, , .		8
52	Mechanical behaviour of Transparent Structural Silicone Adhesive (TSSA) steel-to-glass laminated connections under monotonic and cyclic loading. Glass Structures and Engineering, 2018, 3, 213-236.	0.8	8
53	Damage assessment of a titanium skin adhesively bonded to carbon fiber-reinforced plastic omega stringers using acoustic emission. Structural Health Monitoring, 2022, 21, 407-423.	4.3	8
54	Parametric Study on the Interface Layer of Renovation Solutions for Orthotropic Steel Bridge Decks. Computer-Aided Civil and Infrastructure Engineering, 2012, 27, 143-153.	6.3	7

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55	Interlaminar adhesion assessment of carbon-epoxy laminates under salt water ageing using peel tests. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1555-1563.	0.7	7
56	Multi-material adhesive joints with thick bond-lines: Crack onset and crack deflection. Composite Structures, 2021, 266, 113687.	3.1	7
57	Evaluation of the strain-based partitioning method for mixed-mode I+II fracture of bi-material cracks. Journal of Adhesion, 2022, 98, 577-605.	1.8	6
58	On the sensitivity of the ultrasonic welding process of epoxy- to polyetheretherketone (PEEK)-based composites to the welding force and amplitude of vibrations. Composites Part C: Open Access, 2021, 5, 100141.	1.5	5
59	Influence of cyclic aging on adhesive mode mixity in dissimilar composite/metal double cantilever beam joints. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1476-1488.	0.7	5
60	Flexural performance of squared one-sided CFRP patches: modelling and experimental study. Journal of Adhesion, 2023, 99, 473-491.	1.8	1
61	Ultrasonic Welding of Thermoset to Thermoplastic Based Composites: Effect of the Process Parameters on the Weld Strength. , 0, , .		0
62	Structural Health Monitoring of Adhesively-Bonded Hybrid Joints by Acoustic Emission. , 0, , .		0