

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	Flexural performance of squared one-sided CFRP patches: modelling and experimental study. <i>Journal of Adhesion</i> , 2023, 99, 473-491.	1.8	1
2	Damage assessment of a titanium skin adhesively bonded to carbon fiber-reinforced plastic omega stringers using acoustic emission. <i>Structural Health Monitoring</i> , 2022, 21, 407-423.	4.3	8
3	Testing mechanical performance of adhesively bonded composite joints in engineering applications: an overview. <i>Journal of Adhesion</i> , 2022, 98, 2133-2209.	1.8	40
4	Evaluation of the strain-based partitioning method for mixed-mode I+II fracture of bi-material cracks. <i>Journal of Adhesion</i> , 2022, 98, 577-605.	1.8	6
5	Synthesis and characterization of novel eco-epoxy adhesives based on the modified tannic acid for self-healing joints. <i>Polymer Testing</i> , 2022, 106, 107444.	2.3	10
6	Influence of cyclic aging on adhesive mode mixity in dissimilar composite/metal double cantilever beam joints. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2022, 236, 1476-1488.	0.7	5
7	On the influence of glass fiber mat on the mixed-mode fracture of composite-to-metal bonded joints. <i>Composite Structures</i> , 2021, 256, 113109.	3.1	9
8	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
9	The effect of modified tannic acid (TA) eco-epoxy adhesives on mode I fracture toughness of bonded joints. <i>Polymer Testing</i> , 2021, 96, 107122.	2.3	15
10	On the sensitivity of ultrasonic welding of epoxy- to polyetheretherketone (PEEK)-based composites to the heating time during the welding process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 144, 106334.	3.8	22
11	Multi-material adhesive joints with thick bond-lines: Crack onset and crack deflection. <i>Composite Structures</i> , 2021, 266, 113687.	3.1	7
12	On the sensitivity of the ultrasonic welding process of epoxy- to polyetheretherketone (PEEK)-based composites to the welding force and amplitude of vibrations. <i>Composites Part C: Open Access</i> , 2021, 5, 100141.	1.5	5
13	Temperature dependency of the toughening capability of electrospun PA66 nanofibers for carbon/epoxy laminates. <i>Composites Science and Technology</i> , 2021, 216, 109061.	3.8	11
14	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
15	Unfolding the early fatigue damage process for CFRP cross-ply laminates. <i>International Journal of Fatigue</i> , 2020, 140, 105820.	2.8	23
16	Significantly enhanced structural integrity of adhesively bonded PPS and PEEK composite joints by rapidly UV-irradiating the substrates. <i>Composites Science and Technology</i> , 2020, 199, 108358.	3.8	21
17	Enhanced Interface Adhesion by Novel Eco-Epoxy Adhesives Based on the Modified Tannic Acid on Al and CFRP Adherends. <i>Polymers</i> , 2020, 12, 1541.	2.0	10
18	Review on Adhesives and Surface Treatments for Structural Applications: Recent Developments on Sustainability and Implementation for Metal and Composite Substrates. <i>Materials</i> , 2020, 13, 5590.	1.3	58

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19	Ultrasonic welding of epoxy- to polyetheretherketone- based composites: Investigation on the material of the energy director and the thickness of the coupling layer. <i>Journal of Composite Materials</i> , 2020, 54, 3081-3098.	1.2	16
20	Role of adherend material on the fracture of bi-material composite bonded joints. <i>Composite Structures</i> , 2020, 252, 112643.	3.1	16
21	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
22	Damage characterization of laminated composites using acoustic emission: A review. <i>Composites Part B: Engineering</i> , 2020, 195, 108039.	5.9	213
23	Interlaminar adhesion assessment of carbon-epoxy laminates under salt water ageing using peel tests. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 1555-1563.	0.7	7
24	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
25	Compression after multiple low velocity impacts of NCF, 2D and 3D woven composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 125, 105576.	3.8	72
26	Using passive and active acoustic methods for impact damage assessment of composite structures. <i>Composite Structures</i> , 2019, 226, 111252.	3.1	39
27	Damage characterization of adhesively-bonded Bi-material joints using acoustic emission. <i>Composites Part B: Engineering</i> , 2019, 176, 107356.	5.9	43
28	Strain-based methodology for mixed-mode I+II fracture: A new partitioning method for bi-material adhesively bonded joints. <i>Journal of Adhesion</i> , 2019, 95, 385-404.	1.8	19
29	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
30	Investigation on energy director-less ultrasonic welding of polyetherimide (PEI)- to epoxy-based composites. <i>Composites Part B: Engineering</i> , 2019, 173, 107014.	5.9	48
31	Creep behaviour of steel bonded joints under hygrothermal conditions. <i>International Journal of Adhesion and Adhesives</i> , 2019, 91, 54-63.	1.4	13
32	Characterization and optimization of hybrid carbon-glass epoxy composites under combined loading. <i>Journal of Composite Materials</i> , 2019, 53, 2593-2605.	1.2	10
33	Composite layup effect on the failure mechanism of single lap bonded joints. <i>Composite Structures</i> , 2019, 217, 14-26.	3.1	44
34	Clustering of interlaminar and intralaminar damages in laminated composites under indentation loading using Acoustic Emission. <i>Composites Part B: Engineering</i> , 2018, 144, 206-219.	5.9	115
35	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
36	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

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37	Mechanical behaviour of Transparent Structural Silicone Adhesive (TSSA) steel-to-glass laminated connections under monotonic and cyclic loading. <i>Glass Structures and Engineering</i> , 2018, 3, 213-236.	0.8	8
38	On the fracture behaviour of CFRP bonded joints under mode I loading: Effect of supporting carrier and interface contamination. <i>Composites Science and Technology</i> , 2018, 160, 97-110.	3.8	38
39	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
40	Out-of-autoclave manufacturing of GLARE panels using resistance heating. <i>Journal of Composite Materials</i> , 2018, 52, 1661-1675.	1.2	12
41	Barely visible impact damage assessment in laminated composites using acoustic emission. <i>Composites Part B: Engineering</i> , 2018, 152, 180-192.	5.9	86
42	How pure mode I can be obtained in bi-material bonded DCB joints: A longitudinal strain-based criterion. <i>Composites Part B: Engineering</i> , 2018, 153, 137-148.	5.9	41
43	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
44	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
45	Interface adhesion assessment of composite-to-metal bonded joints under salt spray conditions using peel tests. <i>Composite Structures</i> , 2017, 164, 68-75.	3.1	58
46	Fatigue Assessment of Full-Scale Retrofitted Orthotropic Bridge Decks. <i>Journal of Bridge Engineering</i> , 2017, 22, .	1.4	33
47	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
48	Investigation of the damage mechanisms for mode I delamination growth in foam core sandwich composites using acoustic emission. <i>Structural Health Monitoring</i> , 2015, 14, 265-280.	4.3	58
49	Prediction of delamination growth in laminated composites using acoustic emission and Cohesive Zone Modeling techniques. <i>Composite Structures</i> , 2015, 124, 120-127.	3.1	54
50	Failure analysis of adhesively-bonded skin-to-stiffener joints: Metal-metal vs. composite-metal. <i>Engineering Failure Analysis</i> , 2015, 56, 2-13.	1.8	54
51	Prediction of delamination growth in carbon/epoxy composites using a novel acoustic emission-based approach. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 868-878.	1.6	37
52	Test method to assess interface adhesion in composite bonding. <i>Applied Adhesion Science</i> , 2015, 3, .	1.5	30
53	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
54	Adhesion Properties of Bonded Composite-to-Aluminium Joints Using Peel Tests. <i>Journal of Adhesion</i> , 2014, 90, 511-525.	1.8	63

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55	Fatigue behavior of bonded and sandwich systems for strengthening orthotropic bridge decks. Composite Structures, 2013, 97, 117-128.	3.1	27
56	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
57	Lightweight reinforcement systems for orthotropic bridge decks. , 2013, , .		8
58	Structural monitoring of a strengthened orthotropic steel bridge deck using strain data. Structural Health Monitoring, 2012, 11, 558-576.	4.3	24
59	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
60	Composite bonded systems for renovations of orthotropic steel bridge decks. Composite Structures, 2010, 92, 853-862.	3.1	32
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