Mariana D Banea

List of Publications by Year
in descending order

99	5,511	71102	85541
papers	citations	41 h-index	71 g-index

104	104	104	2641
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An updated review of adhesively bonded joints in composite materials. International Journal of Adhesion and Adhesives, 2017, 72, 30-42.	2.9	490
2	Modelling adhesive joints with cohesive zone models: effect of the cohesive law shape of the adhesive layer. International Journal of Adhesion and Adhesives, 2013, 44, 48-56.	2.9	444
3	Adhesively bonded joints in composite materials: An overview. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2009, 223, 1-18.	1.1	306
4	Strength prediction of single- and double-lap joints by standard and extended finite element modelling. International Journal of Adhesion and Adhesives, 2011, 31, 363-372.	2.9	286
5	Multi-material adhesive joints for automotive industry. Composites Part B: Engineering, 2018, 151, 71-77.	12.0	174
6	The Effect of Adhesive Thickness on the Mechanical Behavior of a Structural Polyurethane Adhesive. Journal of Adhesion, 2015, 91, 331-346.	3.0	173
7	Adhesive Joints for Low- and High-Temperature Use: An Overview. Journal of Adhesion, 2015, 91, 556-585.	3.0	145
8	Mechanical characterization of intralaminar natural fibre-reinforced hybrid composites. Composites Part B: Engineering, 2019, 175, 107149.	12.0	132
9	Mechanical Characterization of Flexible Adhesives. Journal of Adhesion, 2009, 85, 261-285.	3.0	127
10	Effect of chemical treatment on the thermal properties of hybrid natural fiberâ€reinforced composites. Journal of Applied Polymer Science, 2019, 136, 47154.	2.6	120
11	Modelling of Single-Lap Joints Using Cohesive Zone Models: Effect of the Cohesive Parameters on the Output of the Simulations. Journal of Adhesion, 2012, 88, 513-533.	3.0	116
12	Effects of Temperature and Loading Rate on the Mechanical Properties of a High Temperature Epoxy Adhesive. Journal of Adhesion Science and Technology, 2011, 25, 2461-2474.	2.6	108
13	Effect of Temperature on Tensile Strength and Mode I Fracture Toughness of a High Temperature Epoxy Adhesive. Journal of Adhesion Science and Technology, 2012, 26, 939-953.	2.6	108
14	Smart Adhesive Joints: An Overview of Recent Developments. Journal of Adhesion, 2014, 90, 16-40.	3.0	107
15	Strength Improvement of Adhesively-Bonded Joints Using a Reverse-Bent Geometry. Journal of Adhesion Science and Technology, 2011, 25, 2351-2368.	2.6	100
16	Mode I fracture toughness of adhesively bonded joints as a function of temperature: Experimental and numerical study. International Journal of Adhesion and Adhesives, 2011, 31, 273-279.	2.9	91
17	Adhesive Selection for Single Lap Bonded Joints: Experimentation and Advanced Techniques for Strength Prediction. Journal of Adhesion, 2015, 91, 841-862.	3.0	83
18	Fracture toughness determination of adhesive and co-cured joints in natural fibre composites. Composites Part B: Engineering, 2013, 50, 120-126.	12.0	79

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19	Comparative Failure Assessment of Single and Double Lap Joints with Varying Adhesive Systems. Journal of Adhesion, 2016, 92, 610-634.	3.0	79
20	eXtended Finite Element Method for fracture characterization of adhesive joints in pure mode I. Computational Materials Science, 2011, 50, 1543-1549.	3.0	78
21	Debonding on command of adhesive joints for the automotive industry. International Journal of Adhesion and Adhesives, 2015, 59, 14-20.	2.9	75
22	Effect of surface roughness using different adherend materials on the adhesive bond strength. Applied Adhesion Science, 2015, 3, .	1.5	72
23	Optimization study of hybrid spot-welded/bonded single-lap joints. International Journal of Adhesion and Adhesives, 2012, 37, 86-95.	2.9	65
24	Mechanical and Thermal Characterization of Natural Intralaminar Hybrid Composites Based on Sisal. Polymers, 2020, 12, 866.	4.5	64
25	Temperature Dependence of the Fracture Toughness of Adhesively Bonded Joints. Journal of Adhesion Science and Technology, 2010, 24, 2011-2026.	2.6	63
26	A Review of Recent Advances in Hybrid Natural Fiber Reinforced Polymer Composites. Journal of Renewable Materials, 2022, 10, 561-589.	2.2	63
27	Influence of Adherend Surface Roughness on the Adhesive Bond Strength. Latin American Journal of Solids and Structures, 2016, 13, 2356-2370.	1.0	61
28	Bonded repair of composite structures in aerospace application: a review on environmental issues. Applied Adhesion Science, 2018, 6, .	1.5	60
29	A Review on the Thermal Characterisation of Natural and Hybrid Fiber Composites. Polymers, 2021, 13, 4425.	4.5	60
30	Effect of temperature on the shear strength of aluminium single lap bonded joints for high temperature applications. Journal of Adhesion Science and Technology, 2014, 28, 1367-1381.	2.6	58
31	Behaviour of environmentally degraded epoxy adhesives as a function of temperature. Journal of Adhesion, 2017, 93, 95-112.	3.0	58
32	Interface adhesion assessment of composite-to-metal bonded joints under salt spray conditions using peel tests. Composite Structures, 2017, 164, 68-75.	5.8	58
33	Mechanical and thermal characterization of a structural polyurethane adhesive modified with thermally expandable particles. International Journal of Adhesion and Adhesives, 2014, 54, 191-199.	2.9	56
34	The effect of temperature on the mechanical properties of adhesives for the automotive industry. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2010, 224, 51-62.	1.1	55
35	A review on the temperature and moisture degradation of adhesive joints. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2017, 231, 488-501.	1.1	55
36	Static and fatigue behaviour of room temperature vulcanising silicone adhesives for high temperature aerospace applications. Materialwissenschaft Und Werkstofftechnik, 2010, 41, 325-335.	0.9	54

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37	Effect of surface treatments on interfacial properties of natural intralaminar hybrid composites. Polymer Composites, 2020, 41, 314-325.	4.6	54
38	Adhesive thickness effects of a ductile adhesive by optical measurement techniques. International Journal of Adhesion and Adhesives, 2015, 57, 125-132.	2.9	50
39	Development and qualification of a new polymeric matrix laminated composite for pipe repair. Composite Structures, 2016, 152, 737-745.	5.8	48
40	Effect of material on the mechanical behaviour of adhesive joints for the automotive industry. Journal of Adhesion Science and Technology, 2017, 31, 663-676.	2.6	47
41	A Review of Structural Adhesive Joints in Hybrid Joining Processes. Polymers, 2021, 13, 3961.	4.5	47
42	Mode II Fracture Toughness of Adhesively Bonded Joints as a Function of Temperature: Experimental and Numerical Study. Journal of Adhesion, 2012, 88, 534-551.	3.0	44
43	Debonding on command of multi-material adhesive joints. Journal of Adhesion, 2017, 93, 756-770.	3.0	42
44	Adherend thickness effect on the tensile fracture toughness of a structural adhesive using an optical data acquisition method. International Journal of Adhesion and Adhesives, 2014, 53, 15-22.	2.9	41
45	Debonding on Demand of Adhesively Bonded Joints: A Critical Review. Reviews of Adhesion and Adhesives, 2019, 7, 33-50.	3.4	41
46	Moulds design for adhesive bulk and joint specimens manufacturing. Assembly Automation, 2012, 32, 284-292.	1.7	39
47	The influence of water on the fracture envelope of an adhesive joint. Theoretical and Applied Fracture Mechanics, 2017, 89, 1-15.	4.7	38
48	Adhesively bonded joints of jute, glass and hybrid jute/glass fibre-reinforced polymer composites for automotive industry. Applied Adhesion Science, 2021, 9, .	1.5	37
49	Comparative analysis of the mechanical and thermal properties of polyester and epoxy natural fibre-reinforced hybrid composites. Journal of Composite Materials, 2021, 55, 1683-1692.	2.4	34
50	Methods to increase the toughness of structural adhesives with micro particles: an overview with focus on cork particles. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 307-325.	0.9	32
51	Structural Adhesives Modified with Thermally Expandable Particles. Journal of Adhesion, 2015, 91, 823-840.	3.0	31
52	Failure pressure analysis of composite repair system for wall loss defect of metallic pipelines. Composite Structures, 2017, 176, 1013-1019.	5.8	31
53	Theoretical assessment of the elastic modulus of natural fiber-based intra-ply hybrid composites. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	31
54	Effect of Babassu Natural Filler on PBAT/PHB Biodegradable Blends: An Investigation of Thermal, Mechanical, and Morphological Behavior. Materials, 2018, 11, 820.	2.9	30

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55	Functionally graded adhesive joints by using thermally expandable particles. Journal of Adhesion, 2019, 95, 995-1014.	3.0	30
56	Strain rate dependence of adhesive joints for the automotive industry at low and high temperatures. Journal of Adhesion Science and Technology, 2018, 32, 2162-2179.	2.6	29
57	Experimental analysis of metal-composite repair of floating offshore units (FPSO). Journal of Adhesion, 2017, 93, 147-158.	3.0	28
58	Mechanical characterization of a modern epoxy adhesive for automotive industry. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	28
59	Experimental analysis of adhesively bonded joints in synthetic- and natural fibre-reinforced polymer composites. Journal of Composite Materials, 2020, 54, 1245-1255.	2.4	28
60	Effect of moisture on the adhesion of CFRP-to-steel bonded joints using peel tests. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	27
61	Moisture and temperature degradation of double cantilever beam adhesive joints. Journal of Adhesion Science and Technology, 2017, 31, 1824-1838.	2.6	22
62	Mechanical Characterization of Bonded Joints Made of Additive Manufactured Adherends. Annals of Dunarea De Jos University of Galati, Fascicle Xii, Welding Equipment and Technology, 2019, 30, 27-33.	0.5	22
63	The effect of multiscale hybridization on the mechanical properties of natural fiberâ€reinforced composites. Journal of Applied Polymer Science, 2021, 138, 51213.	2.6	21
64	Effect of water on the behaviour of adhesives modified with thermally expandable particles. International Journal of Adhesion and Adhesives, 2018, 84, 250-256.	2.9	20
65	Influence of adherend properties on the strength of adhesively bonded joints. MRS Bulletin, 2019, 44, 625-629.	3.5	19
66	Water Diffusion in Double Cantilever Beam Adhesive Joints. Latin American Journal of Solids and Structures, 2017, 14, 188-201.	1.0	18
67	Bonded composite repair of metallic pipeline using energy release rate method. Journal of Adhesion Science and Technology, 2019, 33, 2141-2156.	2.6	18
68	Analysis of mechanical and thermal properties of epoxy multiwalled carbon nanocomposites. Journal of Composite Materials, 2020, 54, 4831-4840.	2.4	15
69	Recent Trends in Surface Modification of Natural Fibres for Their Use in Green Composites. Materials Horizons, 2021, , 329-350.	0.6	13
70	The effect of environment and fatigue loading on the behaviour of TEPs-modified adhesives. Journal of Adhesion, 2020, 96, 423-436.	3.0	12
71	Composite repair system for corroded metallic pipelines: an overview of recent developments and modelling. Journal of Marine Science and Technology, 2020, 25, 1308-1323.	2.9	12
72	Effect of intralaminar hybridization on mode I fracture toughness of natural fiber-reinforced composites. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	10

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73	Effect of the size reduction on the bulk tensile and double cantilever beam specimens used in cohesive zone models. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 968-982.	1.1	8
74	Adhesively bonded aluminium double-strap joints: effects of patch part on failure load. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	8
75	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.	1.1	7
76	A Study on Microstructure Characteristics of TEPs-modified Adhesives. Microscopy and Microanalysis, 2015, 21, 7-8.	0.4	6
77	Effect of Material on the Mechanical Properties of Additive Manufactured Thermoplastic Parts. Annals of Dunarea De Jos University of Galati, Fascicle Xii, Welding Equipment and Technology, 2020, 31, 5-12.	0.5	6
78	Tensile Behaviour of a Structural Adhesive at High Temperatures by the eXtended Finite Element Method. Journal of Adhesion, 2013, 89, 529-547.	3.0	5
79	Assessment of failure pressure of a GFRP composite repair system for wall loss defect in metallic pipelines. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 902-911.	0.9	5
80	Interfacial adhesion between embedded fibre optic sensors and epoxy matrix in composites. Journal of Adhesion Science and Technology, 2019, 33, 253-272.	2.6	5
81	Strength and failure modes of single- L adhesive joints between aluminium and composites. CiÃªncia & Tecnologia Dos Materiais, 2017, 29, e114-e118.	0.5	4
82	Failure Strength Tests. , 2018, , 489-521.		4
83	Prediction of Failure Pressure for Defective Pipelines Reinforced with Composite System, Accounting for Pipe Extremities. Journal of Failure Analysis and Prevention, 2019, 19, 1832-1843.	0.9	4
84	Characterization of Aluminium Single-Lap Joints for High Temperature Applications. Materials Science Forum, 2012, 730-732, 721-726.	0.3	3
85	Test methods for bond strength of glass fiber posts to dentin: A review. Journal of Adhesion, 2017, 93, 159-186.	3.0	3
86	A new cohesive element to model environmental degradation of adhesive joints in the rail industry. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 560-570.	2.1	3
87	Effect of Low Temperature on Tensile Strength and Mode I Fracture Energy of a Room Temperature Vulcanizing Silicone Adhesive. Journal of Testing and Evaluation, 2016, 44, 1284-1293.	0.7	3
88	An assessment of composite repair system in offshore platform for corroded circumferential welds in super duplex steel pipe. Frattura Ed Integrita Strutturale, 2018, 12, 151-160.	0.9	3
89	Prediction of the burst pressure for defective pipelines using different semi-empirical models. Frattura Ed Integrita Strutturale, 2020, 14, 137-147.	0.9	3
90	Effect of ultraviolet radiation and water spraying on the mechanical properties of multiâ€walled carbon nanotubes reinforced natural fiber and hybrid composites. Journal of Applied Polymer Science, 2022, 139, 51915.	2.6	3

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91	Dissimilar Joining of PMCs to Metals â€“ Adhesive Bonding. , 2021, , 324-333.		2
92	Influence of the Cohesive Law Parameters on the Strength Prediction of Adhesively-Bonded Joints. Materials Science Forum, 0, 730-732, 1000-1005.	0.3	1
93	Feasibility of the Extended Finite Element Method for the Simulation of Composite Bonded Joints. Materials Science Forum, 2012, 730-732, 513-518.	0.3	1
94	Analysis of Failure Pressure of Defective Pipes Repaired with Composite Systems Considering the Plastic Deformation of Pipe. Journal of the Institution of Engineers (India): Series C, 2020, 101, 929-936.	1.2	1
95	Debonding of adhesive joints: existing and emerging technologies. , 0, , .		1
96	Thermal Analysis of Hybrid Epoxy/Synthetic/Natural Fiber Composites. , 2022, , 1-32.		1
97	Advanced techniques for estimation of the tensile fracture toughness of adhesive joints. Frattura Ed Integrita Strutturale, 2015, 9, 1-12.	0.9	0
98	Failure Strength Tests. , 2017, , 1-33.		0
99	Cohesive Properties of Environmentally Degraded Epoxy Adhesives. U Porto Journal of Engineering, 2017, 3, 49-56.	0.4	0