

Rodrigo Freire

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,649
citations

279487

23
h-index

315357

38
g-index

71
all docs

71
docs citations

71
times ranked

1453
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensile Properties Optimization of Date Palm Leaflets Using Taguchi Method. <i>Journal of Natural Fibers</i> , 2022, 19, 6348-6364.	1.7	7
2	Numerical and experimental investigations on sandwich panels made with eco-friendly components under low-velocity impact. <i>Journal of Sandwich Structures and Materials</i> , 2022, 24, 419-447.	2.0	8
3	Environmental assessment of discarded plastic caps as a honeycomb core: An eco-mechanical perspective. <i>Journal of Industrial Ecology</i> , 2022, 26, 643-654.	2.8	3
4	A core rigidity classifier method and a novel approach to account for geometric effects on the elastic properties of sandwich structures. <i>Composite Structures</i> , 2022, 282, 115075.	3.1	3
5	Statistical and numerical approaches of particulate reinforced polymers and their effect on the interlocking effect of hybrid composite joints. <i>Journal of Composite Materials</i> , 2022, 56, 1267-1285.	1.2	3
6	The impact behaviour of hybrid fibre-particle composites based on a full factorial design. <i>Materials Today Communications</i> , 2022, 31, 103459.	0.9	5
7	Sustainable Sandwich Panels Made of Aluminium Skins and Bamboo Rings. <i>Materials Research</i> , 2021, 24, .	0.6	4
8	Eco-friendly panels made of autoclaved flax composites and upcycled bottle caps core: experimental and numerical analysis. <i>Composites Part C: Open Access</i> , 2021, 4, 100114.	1.5	4
9	Experimental and numerical assessment of sustainable bamboo core sandwich panels under low-velocity impact. <i>Construction and Building Materials</i> , 2021, 292, 123437.	3.2	13
10	Hybrid polymer composites made of sugarcane bagasse fibres and disposed rubber particles. <i>Polymers and Polymer Composites</i> , 2020, , 096739112094345.	1.0	4
11	Tensile and flexural properties of epoxy laminates with natural papaya bast fibre cellular layers. <i>Composites Part C: Open Access</i> , 2020, 2, 100017.	1.5	4
12	Eco-friendly Sandwich Panel Based on Recycled Bottle Caps Core and Natural Fibre Composite Facings. <i>Fibers and Polymers</i> , 2020, 21, 1798-1807.	1.1	9
13	Recycled polyethylene bottle caps as sandwich panel circular honeycomb: Experimental and numerical approach. <i>Polymer Composites</i> , 2020, 41, 4678-4691.	2.3	8
14	Eco-friendly sandwich panel based on bottle caps core and sustainable components: Static and dynamic characterisation. <i>Composites Part C: Open Access</i> , 2020, 3, 100069.	1.5	3
15	Biopolymeric Coacervate Microvectors for the Delivery of Functional Proteins to Cells. <i>Advanced Biology</i> , 2020, 4, e2000101.	3.0	8
16	Improved sustainable sandwich panels based on bottle caps core. <i>Composites Part B: Engineering</i> , 2020, 199, 108165.	5.9	18
17	Reinforced biobased adhesive for eco-friendly sandwich panels. <i>International Journal of Adhesion and Adhesives</i> , 2020, 98, 102550.	1.4	22
18	Development of Cycloaliphatic Epoxy-POSS Nanocomposite Matrices with Enhanced Resistance to Atomic Oxygen. <i>Molecules</i> , 2020, 25, 1483.	1.7	18

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19	Static, fatigue and impact behaviour of an autoclaved flax fibre reinforced composite for aerospace engineering. <i>Composites Part B: Engineering</i> , 2020, 197, 108049.	5.9	30
20	Strain Reversal in Actuated Origami Structures. <i>Physical Review Letters</i> , 2019, 123, 025501.	2.9	16
21	Extraction and characterization of vascular bundle and fiber strand from date palm rachis as potential bio-reinforcement in composite. <i>Carbohydrate Polymers</i> , 2019, 222, 114997.	5.1	74
22	Multifunctional composites: a metamaterial perspective. <i>Multifunctional Materials</i> , 2019, 2, 043001.	2.4	59
23	Particleboards from CCB-Treated <i>Pinus</i> sp. Wastes and Castor Oil Resin: Morphology Analyses and Physical Mechanical Properties. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	4
24	Epoxy polymers reinforced with carbon microfibre wastes. <i>Materials Today: Proceedings</i> , 2019, 8, 847-852.	0.9	3
25	Investigations on sustainable honeycomb sandwich panels containing eucalyptus sawdust, Piassava and cement particles. <i>Thin-Walled Structures</i> , 2019, 143, 106191.	2.7	22
26	Eco-friendly sodium bicarbonate treatment and its effect on epoxy and polyester coir fibre composites. <i>Construction and Building Materials</i> , 2019, 211, 427-436.	3.2	49
27	Sisal-glass hybrid composites reinforced with silica microparticles. <i>Polymer Testing</i> , 2019, 74, 57-62.	2.3	44
28	Impact of hybrid composites based on rubber tyres particles and sugarcane bagasse fibres. <i>Composites Part B: Engineering</i> , 2019, 159, 157-164.	5.9	28
29	Evaluation of the stiffening mechanism based on micro-sized particle inclusions in laminated composites. <i>Materials Research</i> , 2019, 22, .	0.6	4
30	Evaluation of hybrid-short-coir-fibre-reinforced composites via full factorial design. <i>Composite Structures</i> , 2018, 202, 313-323.	3.1	40
31	Effects of sodium carbonate on the performance of epoxy and polyester coir-reinforced composites. <i>Polymer Testing</i> , 2018, 67, 533-544.	2.3	80
32	Hybrid composites based on sisal fibers and silica nanoparticles. <i>Polymer Composites</i> , 2018, 39, 146-156.	2.3	27
33	Investigations on short coir fibre reinforced composites via full factorial design. <i>Polymers and Polymer Composites</i> , 2018, 26, 391-399.	1.0	32
34	The effect of Portland cement inclusions in hybrid glass fibre reinforced composites based on a full factorial design. <i>Composite Structures</i> , 2018, 202, 233-240.	3.1	14
35	Hybrid bio-composites reinforced with sisal-glass fibres and Portland cement particles: A statistical approach. <i>Composites Part B: Engineering</i> , 2018, 149, 58-65.	5.9	24
36	Impact Behaviour of Hybrid Carbon Fibre Composites Reinforced with Silica Micro- and Functionalized Nanoparticles. <i>Nano Hybrids and Composites</i> , 2018, 21, 1-9.	0.8	2

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37	Sustainable sandwich structures made from bottle caps core and aluminium skins: A statistical approach. <i>Thin-Walled Structures</i> , 2018, 130, 362-371.	2.7	25
38	Hybrid silica micro and PDDA/nanoparticles-reinforced carbon fibre composites. <i>Journal of Composite Materials</i> , 2017, 51, 783-795.	1.2	10
39	Novel fibre metal laminate sandwich composite structure with sisal woven core. <i>Industrial Crops and Products</i> , 2017, 99, 189-195.	2.5	50
40	Epoxy mortar timber beam upgrading. <i>International Wood Products Journal</i> , 2017, 8, 146-154.	0.6	5
41	Sustainable sandwich composite structures made from aluminium sheets and disposed bottle caps. <i>Thin-Walled Structures</i> , 2017, 120, 38-45.	2.7	27
42	Experimental investigation of auxetic structures subjected to quasi static axial load. , 2017, , .		6
43	Apparent shear strength of hybrid glass fibre reinforced composite joints. <i>Polymer Testing</i> , 2017, 64, 307-312.	2.3	14
44	Hybrid glass fibre reinforced composites containing silica and cement microparticles based on a design of experiment. <i>Polymer Testing</i> , 2017, 57, 87-93.	2.3	21
45	Carbon nano-ink coated open cell polyurethane foam with micro-architected multilayer skeleton for damping applications. <i>RSC Advances</i> , 2016, 6, 80334-80341.	1.7	21
46	A Statistical Analysis of Epoxy Polymer Reinforced with Micro Ceramic Particles. <i>Journal of Research Updates in Polymer Science</i> , 2016, 5, 108-113.	0.3	7
47	Bicritical universality of the anisotropic Heisenberg model in a crystal field. <i>Physical Review E</i> , 2015, 91, 032146.	0.8	4
48	Hybrid glass fibre reinforced composites with micro and poly-diallyldimethylammonium chloride (PDDA) functionalized nano silica inclusions. <i>Materials & Design</i> , 2015, 65, 543-549.	5.1	37
49	Wave motion in auxetic solids. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 388-396.	0.7	22
50	Statistical effects of using ceramic particles in glass fibre reinforced composites. <i>Materials & Design</i> , 2014, 55, 463-470.	5.1	25
51	Location of the Bicritical Point of the Anisotropic Heisenberg Model in a Crystal Field. <i>Journal of Physics: Conference Series</i> , 2014, 487, 012006.	0.3	1
52	Cactus fibre/polyester biocomposites: Manufacturing, quasi-static mechanical and fatigue characterisation. <i>Composites Science and Technology</i> , 2013, 74, 150-159.	3.8	35
53	Tensile static and fatigue behaviour of sisal fibres. <i>Materials & Design</i> , 2013, 46, 76-83.	5.1	116
54	Micromechanical analysis of hybrid composites reinforced with unidirectional natural fibres, silica microparticles and maleic anhydride. <i>Materials Research</i> , 2012, 15, 1003-1012.	0.6	26

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55	Modal strain energy based methods for the analysis of complex patterned free layer damped plates. JVC/Journal of Vibration and Control, 2012, 18, 1291-1302.	1.5	18
56	Hybrid polymeric composites reinforced with sisal fibres and silica microparticles. Composites Part B: Engineering, 2012, 43, 3436-3444.	5.9	62
57	Full factorial design analysis of carbon nanotube polymer-cement composites. Materials Research, 2012, 15, 573-580.	0.6	17
58	Unusual behaviour of wave propagation in auxetic structures: Pâ€waves on free surface and Sâ€waves in chiral lattices with piezoelectrics. Physica Status Solidi (B): Basic Research, 2012, 249, 1339-1346.	0.7	27
59	Strength of concrete columns externally wrapped with composites under compressive static loading. Journal of Reinforced Plastics and Composites, 2011, 30, 1671-1688.	1.6	0
60	The hexachiral prismatic wingbox concept. Physica Status Solidi (B): Basic Research, 2008, 245, 570-577.	0.7	75
61	Some new considerations concerning the Rayleighâ€wave velocity in auxetic materials. Physica Status Solidi (B): Basic Research, 2008, 245, 578-583.	0.7	13
62	Metamodelling of auxetic cellular solids with differential evolution optimisation. Physica Status Solidi (B): Basic Research, 2008, 245, 2433-2439.	0.7	0
63	Auxetic materials for bioprostheses [In the Spotlight]. IEEE Signal Processing Magazine, 2008, 25, 128-126.	4.6	184
64	Quasistatic dielectric properties of negative poissonâ€™s ratio hexachiral honeycombs. , 2007, , .		2
65	Modelling the influence of the orientation and fibre reinforcement on the Negative Poisson's ratio in composite laminates. Physica Status Solidi (B): Basic Research, 2007, 244, 883-892.	0.7	52
66	Monte Carlo study of theXYvector Blume-Emery-Griffiths model forHe3î–,He4mixtures in three dimensions. Physical Review E, 2005, 72, 056117.	0.8	12
67	Monte Carlo study of the anisotropic three-dimensional Heisenberg model in a crystal field. Brazilian Journal of Physics, 2004, 34, 452-454.	0.7	4
68	Dynamic light scattering from an optically trapped microsphere. Physical Review E, 2002, 65, 041921.	0.8	31
69	Sandwich Structures Made of Discarded Bottle Caps Core and Hybrid Glass Fibre Composite Skins. Applied Composite Materials, 0, , 1.	1.3	2
70	The Effects of Sodium Carbonate and Bicarbonate Treatments on Sisal Fibre Composites. Materials Research, 0, 25, .	0.6	2