

Sandro C. Amico

List of Publications by Year in descending order

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252
papers

6,803
citations

66343
42
h-index

88630
70
g-index

258
all docs

258
docs citations

258
times ranked

6129
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of various vegetable fibers as sorbent materials for oil spills. Marine Pollution Bulletin, 2005, 50, 1340-1346.	5.0	413
2	A comprehensive characterization of chemically treated Brazilian sponge-gourds (<i>Luffa cylindrica</i>). Polymer Testing, 2005, 24, 474-482.	4.8	214
3	Influence of fiber content on the mechanical and dynamic mechanical properties of glass/ramie polymer composites. Materials & Design, 2013, 47, 9-15.	5.1	194
4	Pull-out and other evaluations in sisal-reinforced polyester biocomposites. Polymer Testing, 2003, 22, 375-380.	4.8	163
5	Mechanical and flame-retardant properties of epoxy/Mg-Al LDH composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 196-202.	7.6	146
6	Synergy of fiber length and content on free vibration and damping behavior of natural fiber reinforced polyester composite beams. Materials & Design, 2014, 56, 379-386.	5.1	146
7	The effect of roughness and pre-heating of the substrate on the morphology of aluminium coatings deposited by thermal spraying. Surface and Coatings Technology, 2006, 200, 3049-3055.	4.8	138
8	Study of hybrid intralaminar curaua/glass composites. Materials & Design, 2012, 42, 111-117.	5.1	125
9	An experimental study of the permeability and capillary pressure in resin-transfer moulding. Composites Science and Technology, 2001, 61, 1945-1959.	7.8	124
10	Mechanical and dynamic mechanical analysis of hybrid composites molded by resin transfer molding. Journal of Applied Polymer Science, 2010, 118, 887-896.	2.6	123
11	Tensile and impact behavior of polypropylene/low density polyethylene blends. Polymer Testing, 2005, 24, 468-473.	4.8	120
12	Hybridization effect on the mechanical properties of curaua/glass fiber composites. Composites Part B: Engineering, 2013, 55, 492-497.	12.0	120
13	Influence of Stacking Sequence on the Mechanical and Dynamic Mechanical Properties of Cotton/Glass Fiber Reinforced Polyester Composites. Materials Research, 2016, 19, 542-547.	1.3	120
14	Influence of the Stacking Sequence on the Mechanical Properties of Glass/Sisal Hybrid Composites. Journal of Reinforced Plastics and Composites, 2010, 29, 179-189.	3.1	100
15	Correlation of the thermal stability and the decomposition kinetics of six different vegetal fibers. Cellulose, 2014, 21, 177-188.	4.9	99
16	Influence of fiber hybridization on the dynamic mechanical properties of glass/ramie fiber-reinforced polyester composites. Journal of Reinforced Plastics and Composites, 2012, 31, 1652-1661.	3.1	90
17	Damage and failure in carbon/epoxy filament wound composite tubes under external pressure: Experimental and numerical approaches. Materials and Design, 2016, 96, 431-438.	7.0	88
18	Carbon fiber-reinforced epoxy filament-wound composite laminates exposed to hygrothermal conditioning. Journal of Materials Science, 2016, 51, 4697-4708.	3.7	85

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19	The effect of post-consumer PET particles on the performance of flexible polyurethane foams. Polymer Testing, 2009, 28, 702-708.	4.8	84
20	The effect of acetone addition on the properties of epoxy. Polimeros, 2008, 18, 76-80.	0.7	81
21	Natural fibers characterization by inverse gas chromatography. Carbohydrate Polymers, 2011, 84, 110-117.	10.2	81
22	Effect of fiber orientation on the shear behavior of glass fiber/epoxy composites. Materials & Design, 2015, 65, 789-795.	5.1	81
23	Effect of carbon nanotubes addition on the mechanical and thermal properties of epoxy matrices. Materials Research, 2008, 11, 347-352.	1.3	80
24	Preparation and characterization of ramie-glass fiber reinforced polymer matrix hybrid composites. Materials Research, 2012, 15, 415-420.	1.3	79
25	Experimental development of an intelligent refrigeration system. International Journal of Refrigeration, 2005, 28, 165-175.	3.4	78
26	Layering pattern effects on vibrational behavior of coconut sheath/banana fiber hybrid composites. Materials and Design, 2016, 90, 795-803.	7.0	74
27	Damage modeling for carbon fiber/epoxy filament wound composite tubes under radial compression. Composite Structures, 2017, 160, 204-210.	5.8	69
28	Studies on the combined effect of injection temperature and fiber content on the properties of polypropylene-glass fiber composites. Composites Science and Technology, 2005, 65, 873-881.	7.8	68
29	Stacking sequence optimization in composite tubes under internal pressure based on genetic algorithm accounting for progressive damage. Composite Structures, 2017, 178, 20-26.	5.8	67
30	Buckling and post-buckling of filament wound composite tubes under axial compression: Linear, nonlinear, damage and experimental analyses. Composites Part B: Engineering, 2018, 149, 227-239.	12.0	67
31	The influence of silane surface modification on microcrystalline cellulose characteristics. Carbohydrate Polymers, 2020, 230, 115595.	10.2	65
32	Hybridization effect on the mechanical and dynamic mechanical properties of curaua composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7285-7289.	5.6	64
33	Evaluation of flexible postconsumed polyurethane foams modified by polystyrene grafting as sorbent material for oil spills. Journal of Applied Polymer Science, 2009, 111, 1842-1849.	2.6	60
34	Synthesis and performance of palladium-based electrocatalysts in alkaline direct ethanol fuel cell. International Journal of Hydrogen Energy, 2016, 41, 6457-6468.	7.1	56
35	Sodium montmorillonite modified with methacryloxy and vinylsilanes: Influence of silylation on the morphology of clay/unsaturated polyester nanocomposites. Applied Clay Science, 2015, 114, 550-557.	5.2	53
36	Axial impregnation of a fiber bundle. Part 1: Capillary experiments. Polymer Composites, 2002, 23, 249-263.	4.6	52

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37	Forest-based resources as fillers in biobased polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45684.	2.6	51
38	Effect of the stacking sequence on vibrational behavior of <i>Sansevieria cylindrica</i> /coconut sheath polyester hybrid composites. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 293-306.	3.1	50
39	Design, modeling, optimization, manufacturing and testing of variable-angle filament-wound cylinders. <i>Composites Part B: Engineering</i> , 2021, 225, 109224.	12.0	50
40	Mathematical modelling of capillary micro-flow through woven fabrics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2000, 31, 1331-1344.	7.6	46
41	Effect of sonication on thermo-mechanical properties of epoxy nanocomposites with carboxylated-SWNT. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 509, 57-62.	5.6	45
42	The influence of the addition of mechanically deboned poultry meat on the rheological properties of sausage. <i>Journal of Food Engineering</i> , 2005, 68, 185-189.	5.2	44
43	Recent studies on modified cellulose/nanocellulose epoxy composites: A systematic review. <i>Carbohydrate Polymers</i> , 2021, 255, 117366.	10.2	44
44	Axial impregnation of a fiber bundle. Part 2: Theoretical analysis. <i>Polymer Composites</i> , 2002, 23, 264-273.	4.6	42
45	Influence of projectile and thickness on the ballistic behavior of aramid composites: Experimental and numerical study. <i>International Journal of Impact Engineering</i> , 2019, 132, 103307.	5.0	42
46	Mechanical response of filament wound composite rings under tension and compression. <i>Polymer Testing</i> , 2019, 78, 105951.	4.8	41
47	Creep and interfacial behavior of carbon fiber reinforced epoxy filament wound laminates. <i>Polymer Composites</i> , 2018, 39, E2199.	4.6	39
48	Flow Through a Two-Scale Porosity, Oriented Fibre Porous Medium. <i>Transport in Porous Media</i> , 2004, 54, 35-53.	2.6	38
49	Glass fiber/carbon nanotubes/epoxy three-component composites as radar absorbing materials. <i>Polymer Composites</i> , 2016, 37, 2277-2284.	4.6	38
50	The experimental validation of a simplified PEMFC simulation model for design and optimization purposes. <i>Applied Thermal Engineering</i> , 2009, 29, 3036-3048.	6.0	37
51	Experimental and numerical analysis of a LLDPE/HDPE liner for a composite pressure vessel. <i>Polymer Testing</i> , 2011, 30, 693-700.	4.8	37
52	Load sharing ability of the liner in type III composite pressure vessels under internal pressure. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 2274-2286.	3.1	37
53	Analytical and numerical modelling of high-velocity impact on multilayer alumina/aramid fiber composite ballistic shields: Improvement in modelling approaches. <i>Composites Part B: Engineering</i> , 2020, 187, 107830.	12.0	37
54	Sponge Gourd (<i>Luffa cylindrica</i>) Reinforced Polyester Composites: Preparation and Properties. <i>Defence Science Journal</i> , 2014, 64, 273-280.	0.8	36

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55	The matrix stiffness role on tensile and thermal properties of carbon nanotubes/epoxy composites. Journal of Materials Science, 2008, 43, 6064-6069.	3.7	35
56	Carbon/epoxy filament wound composite drive shafts under torsion and compression. Journal of Composite Materials, 2018, 52, 1103-1111.	2.4	35
57	Ballistic strain-rate-dependent material modelling of glass-fibre woven composite based on the prediction of a meso-heterogeneous approach. Composite Structures, 2019, 216, 187-200.	5.8	35
58	Determination of a recyclability index for the PET glycolysis. Resources, Conservation and Recycling, 2009, 53, 122-128.	10.8	34
59	The role of winding pattern on filament wound composite cylinders under radial compression. Polymer Composites, 2020, 41, 2446-2454.	4.6	34
60	Permeability of Hybrid Reinforcements and Mechanical Properties of their Composites Molded by Resin Transfer Molding. Journal of Reinforced Plastics and Composites, 2009, 28, 2839-2850.	3.1	33
61	Short beam strength of curaua, sisal, glass and hybrid composites. Journal of Reinforced Plastics and Composites, 2013, 32, 197-206.	3.1	33
62	Thermal behavior and the compensation effect of vegetal fibers. Cellulose, 2014, 21, 189-201.	4.9	32
63	Computer modelling for the prediction of the in-plane permeability of non-crimp stitch bonded fabrics. Composites Part A: Applied Science and Manufacturing, 2006, 37, 820-825.	7.6	31
64	Zinc oxide nanoparticles from microwave-assisted solvothermal process: Photocatalytic performance and use for wood protection against xylophagous fungus. Nanomaterials and Nanotechnology, 2019, 9, 184798041987620.	3.0	30
65	Epoxy-based composites reinforced with imidazolium ionic liquid-treated aramid pulp. Polymer, 2021, 226, 123787.	3.8	29
66	Effect of clay silylation on curing and mechanical and thermal properties of unsaturated polyester/montmorillonite nanocomposites. Journal of Physics and Chemistry of Solids, 2015, 87, 9-15.	4.0	28
67	Progressive damage modeling of spiral and ring composite structures for offloading hoses. Materials and Design, 2016, 108, 374-382.	7.0	28
68	Ageing effect on the tensile behavior of pultruded CFRP rods. Materials and Design, 2016, 110, 245-254.	7.0	28
69	Dynamic-mechanical properties as a function of luffa fibre content and adhesion in a polyester composite. Polymer Testing, 2020, 87, 106538.	4.8	28
70	Study of epoxy/CNT nanocomposites prepared via dispersion in the hardener. Materials Research, 2011, 14, 256-263.	1.3	27
71	Influence of calcium carbonate on RTM and RTM light processing and properties of molded composites. Journal of Reinforced Plastics and Composites, 2011, 30, 1213-1221.	3.1	27
72	Synergetic effect of LDH and glass fiber on the properties of two- and three-component epoxy composites. Polymer Testing, 2012, 31, 741-747.	4.8	27

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73	Compressive-tensile fatigue behavior of cords/rubber composites. <i>Polymer Testing</i> , 2017, 61, 185-190.	4.8	27
74	On creep, recovery, and stress relaxation of carbon fiber-reinforced epoxy filament wound composites. <i>Polymer Engineering and Science</i> , 2018, 58, 1837-1842.	3.1	27
75	Influence of mosaic pattern on hygrothermally-aged filament wound composite cylinders under axial compression. <i>Journal of Composite Materials</i> , 2020, 54, 2651-2659.	2.4	26
76	Micro fibrillated cellulose reinforced bio-based rigid high-density polyurethane foams. <i>Cellulose</i> , 2021, 28, 4313-4326.	4.9	26
77	Mechanical Behavior of Unidirectional Curaua Fiber and Glass Fiber Composites. <i>Macromolecular Symposia</i> , 2012, 319, 83-92.	0.7	25
78	Analysis of curaua/glass hybrid interlayer laminates. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 472-478.	3.1	25
79	Mechanical and Dilatometric Properties of Carboxylated SWCNT/Epoxy Composites: Effects of the Dispersion in the Resin and in the Hardener. <i>Journal of Reinforced Plastics and Composites</i> , 2010, 29, 524-530.	3.1	24
80	Study of polypropylene/ethylene-propylene-diene monomer blends reinforced with sisal fibers. <i>Polymer Composites</i> , 2012, 33, 2262-2270.	4.6	24
81	Parametric analysis of an offloading hose under internal pressure via computational modeling. <i>Marine Structures</i> , 2017, 51, 174-187.	3.8	24
82	Imidazolium ionic liquids as fracture toughening agents in DGEBA-TETA epoxy resin. <i>Polymer Testing</i> , 2020, 87, 106556.	4.8	24
83	FEM updating for damage modeling of composite cylinders under radial compression considering the winding pattern. <i>Thin-Walled Structures</i> , 2022, 173, 108954.	5.3	24
84	Modeling, simulation and optimization of a beer pasteurization tunnel. <i>Journal of Food Engineering</i> , 2006, 77, 500-513.	5.2	23
85	A two-dimensional model for simulation, control, and optimization of FCC risers. <i>AIChE Journal</i> , 2006, 52, 1895-1905.	3.6	23
86	Aramid pulp reinforced hydrogenated nitrile butadiene rubber composites with ionic liquid compatibilizers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48702.	2.6	22
87	In-plane Permeability and Mechanical Properties of R-Glass/Aramid Hybrid Composites. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 4484-4492.	2.5	21
88	Thermal and combustion features of rigid polyurethane biofoams filled with four forest-based wastes. <i>Polymer Composites</i> , 2018, 39, E1770.	4.6	20
89	Mechanical and dynamic-mechanical properties of silane-treated graphite nanoplatelet/epoxy composites. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46724.	2.6	20
90	Mechanical, electrical, and electromagnetic properties of hybrid graphene/glass fiber/epoxy composite. <i>Polymers and Polymer Composites</i> , 2019, 27, 262-267.	1.9	20

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91	Dynamic mechanical properties of curaua composites. Journal of Applied Polymer Science, 2012, 125, E110.	2.6	19
92	A simplified mathematical model to predict PVC photodegradation in photobioreactors. Polymer Testing, 2012, 31, 638-644.	4.8	19
93	Thermal and Mechanical Investigation of Interlaminar Glass/Curaua Hybrid Polymer Composites. Journal of Natural Fibers, 2017, 14, 271-277.	3.1	19
94	Surface response and photodegradation performance of bio-based polyurethane-forest derivatives foam composites. Polymer Testing, 2019, 80, 106102.	4.8	19
95	Tribological behavior of glass/sisal fiber reinforced polyester composites. Polymer Composites, 2020, 41, 112-120.	4.6	19
96	Lightweight Composites through Imidazolium Ionic Liquid Enhanced Aramid-Epoxy Resin Interactions. ACS Applied Polymer Materials, 2020, 2, 1754-1763.	4.4	19
97	Improvement in mechanical, physical and biological properties of eucalyptus and pine woods by raw pine resin in situ polymerization. Industrial Crops and Products, 2021, 166, 113495.	5.2	18
98	Experimental and numerical evaluation of the perforation resistance of multi-layered alumina/aramid fiber ballistic shield impacted by an armor piercing projectile. Composites Part B: Engineering, 2022, 230, 109488.	12.0	18
99	Microwave dewaxing applied to the investment casting process. Journal of Materials Processing Technology, 2009, 209, 3166-3171.	6.3	17
100	Three-dimensional numerical modeling of RTM and LRTM processes. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2012, 34, 105-111.	1.6	17
101	Dynamic mechanical properties and correlation with dynamic fragility of sisal reinforced composites. Polymer Composites, 2015, 36, 161-166.	4.6	17
102	Evaluation of mechanical properties of sandwich structures with polyethylene terephthalate and polyvinyl chloride core. Journal of Sandwich Structures and Materials, 2016, 18, 229-241.	3.5	17
103	Influence of Fibre Treatment on the Characteristics of Buriti and Ramie Polyester Composites. Polymers and Polymer Composites, 2017, 25, 247-256.	1.9	17
104	Aramid pulp with physisorbed imidazolium ionic liquids for solvent-casted enhanced styrene-butadiene rubber composites. Journal of Applied Polymer Science, 2018, 135, 46693.	2.6	17
105	Imidazolium ionic liquid compatibilizers in melt-blended styrene-butadiene rubber/aramid pulp composites. Polymer Bulletin, 2019, 76, 3451-3462.	3.3	17
106	Curing and seawater aging effects on mechanical and physical properties of glass/epoxy filament wound cylinders. Composites Communications, 2020, 22, 100517.	6.3	17
107	Functionalized-Carbon Nanotubes with Physisorbed Ionic Liquid as Filler for Epoxy Nanocomposites. Journal of Nanoscience and Nanotechnology, 2016, 16, 9132-9140.	0.9	16
108	Multi-scale analyses of a floating marine hose with hybrid polyaramid/polyamide reinforcement cords. Marine Structures, 2018, 60, 279-292.	3.8	16

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109	Aramid pulp treated with imidazolium ionic liquids as a filler in rigid polyurethane biofoams. Journal of Applied Polymer Science, 2021, 138, 50492.	2.6	16
110	Synthesis, characterization, and bactericidal properties of composites based on crosslinked resins containing silver. Journal of Applied Polymer Science, 2008, 107, 1879-1886.	2.6	15
111	Characterization of hybrid composites produced with mats made using different methods. Materials Research, 2009, 12, 433-436.	1.3	15
112	The role of oleate-functionalized layered double hydroxide in the melt compounding of polypropylene nanocomposites. Materials Science and Engineering C, 2012, 32, 2396-2403.	7.3	15
113	Hollow glass microspheres/piassava fiber-reinforced homo- and co-polypropylene composites: preparation and properties. Polymer Bulletin, 2017, 74, 1979-1993.	3.3	15
114	Multiscale modelling approach for simulating low velocity impact tests of aramid-epoxy composite with nanofillers. European Journal of Mechanics, A/Solids, 2021, 90, 104286.	3.7	15
115	Zinc layered hydroxide salts: intercalation and incorporation into low-density polyethylene. Polimeros, 2014, 24, 673-682.	0.7	14
116	Investigation of cure kinetics in epoxy/multiwalled carbon nanotube nanocomposites. Journal of Applied Polymer Science, 2014, 131, .	2.6	14
117	Fibre loading effects on dynamic mechanical properties of compression moulded luffa fibre polyester composites. International Journal of Computer Aided Engineering and Technology, 2018, 10, 157.	0.2	14
118	The effect of thickness on vacuum infusion processing of aramid/epoxy composites for ballistic application. Journal of Composite Materials, 2019, 53, 383-391.	2.4	14
119	A geometric approach for filament winding pattern generation and study of the influence of the slippage coefficient. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	14
120	Creep and Residual Properties of Filament-Wound Composite Rings under Radial Compression in Harsh Environments. Polymers, 2021, 13, 33.	4.5	14
121	Experimental study on the low-velocity impact response of inter-ply S2-glass/aramid woven fabric hybrid laminates. Thin-Walled Structures, 2022, 177, 109458.	5.3	14
122	Resin transfer molding process: a numerical and experimental investigation. International Journal of Multiphysics, 2013, 7, 125-136.	0.1	13
123	Studies on thermal and viscoelastic properties of vinyl ester resin and its composites with glass fiber. Revista Materia, 2015, 20, 64-71.	0.2	13
124	Effect of sonication and clay content on the properties of unsaturated polyester/montmorillonite nanocomposites. Journal of Composite Materials, 2017, 51, 187-197.	2.4	13
125	Mechanical and ballistic analysis of aramid/vinyl ester composites. Journal of Composite Materials, 2018, 52, 289-299.	2.4	13
126	Degradation kinetics and lifetime prediction for polystyrene/nanocellulose nanocomposites. Journal of Thermal Analysis and Calorimetry, 2022, 147, 879-890.	3.6	13

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127	Composite spirals and rings under flexural loading: Experimental and numerical analysis. Journal of Composite Materials, 2020, 54, 2697-2705.	2.4	13
128	Enhancing thermal and dynamic-mechanical properties of epoxy reinforced by amino- ϵ -functionalized microcrystalline cellulose. Journal of Applied Polymer Science, 2021, 138, 51329.	2.6	13
129	Nanocomposite of photocurable epoxy-acrylate resin and carbon nanotubes: dynamic-mechanical, thermal and tribological properties. Materials Research, 2013, 16, 367-374.	1.3	12
130	Unrolling multi-walled carbon nanotubes with ionic liquids: application as fillers in epoxy-based nanocomposites. RSC Advances, 2014, 4, 43436-43443.	3.6	12
131	Production of sustainable polymeric composites using grape pomace biomass. Biomass Conversion and Biorefinery, 2022, 12, 5869-5880.	4.6	12
132	High-Velocity Impact Behavior of Aramid/S2-Glass Interply Hybrid Laminates. Applied Composite Materials, 2021, 28, 1899-1917.	2.5	12
133	Tribological performance of eco-friendly friction materials with rice husk. Wear, 2022, 500-501, 204374.	3.1	12
134	Influence of small rubber particles on the environmental stress cracking of high impact polystyrene. Journal of Applied Polymer Science, 2011, 121, 1697-1706.	2.6	11
135	Study of Composites Produced with Recovered Polypropylene and Piassava Fiber. Materials Research, 2017, 20, 144-150.	1.3	11
136	Compatibilization and mechanical properties of compression-molded polypropylene/high-impact polystyrene blends. Progress in Rubber, Plastics and Recycling Technology, 2018, 34, 117-127.	1.8	11
137	Mechanical and dynamic-mechanical properties of silanized graphene oxide/epoxy composites. Journal of Polymer Research, 2019, 26, 1.	2.4	11
138	Fast-growing pine wood modified by a two-step treatment based on heating and in situ polymerization of polystyrene. Construction and Building Materials, 2021, 302, 124422.	7.2	11
139	Use of polyester/glass fiber residues as fillers for composites. Journal of Applied Polymer Science, 2012, 124, 302-310.	2.6	10
140	Mechanical behavior and correlation between dynamic fragility and dynamic mechanical properties of curaua fiber composites. Polymer Composites, 2013, 35, n/a-n/a.	4.6	10
141	Fatigue damage and fatigue life diagrams of a carbon/epoxy cross ply laminate aged by hygrothermal exposure. Composites Part A: Applied Science and Manufacturing, 2019, 127, 105628.	7.6	10
142	Experimental investigation of transverse permeability applied to liquid molding. Polymer Composites, 2019, 40, 3938-3946.	4.6	10
143	Optimum slippage dependent, non-geodesic fiber path determination for a filament wound composite nozzle. European Journal of Mechanics, A/Solids, 2020, 82, 103994.	3.7	10
144	Effect of fibre bundle uncertainty on the tensile and shear behaviour of plain-woven composites. Composite Structures, 2021, 259, 113440.	5.8	10

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145	Processing of a LLDPE/HDPE pressure vessel liner by rotomolding. <i>Materials Research</i> , 2014, 17, 236-241.	1.3	9
146	Thermal and fire retardancy studies of clay-modified unsaturated polyester/glass fiber composites. <i>Polymer Composites</i> , 2017, 38, 2743-2752.	4.6	9
147	Effect of silane treatment on the Curaua fibre/polyester interface. <i>Plastics, Rubber and Composites</i> , 2019, 48, 160-167.	2.0	9
148	Rigid bio-based wood/polyurethane foam composites expanded under confinement. <i>Journal of Cellular Plastics</i> , 2021, 57, 757-768.	2.4	9
149	Thermal and microstructural characterization of epoxy-infiltrated hydroxyapatite composite. <i>Materials Research</i> , 2009, 12, 107-111.	1.3	8
150	Synthesis, characterization and evaluation of phosphorylated resins in the removal of Pb ²⁺ from aqueous solutions. <i>Polymer Bulletin</i> , 2011, 67, 237-249.	3.3	8
151	Sodium Borohydride as a Protective Agent for the Alkaline Treatment of Sisal Fibers for Polymer Composites. <i>Composite Interfaces</i> , 2011, 18, 407-418.	2.3	8
152	Glass fiber hybrid composites molded by RTM using a dispersion of carbon nanotubes/clay in epoxy. <i>Materials Research</i> , 2013, 16, 1128-1133.	1.3	8
153	In situ L-RTM manufacturing of sandwich panels with PET foam core reinforced by polymeric pins. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 241-254.	3.5	8
154	Grafting amount and structural characteristics of microcrystalline cellulose functionalized with different aminosilane contents. <i>Cellulose</i> , 2022, 29, 3209-3224.	4.9	8
155	Hybridization effect of functionalized microcrystalline cellulose and liquid acrylonitrile butadiene rubber on epoxy. <i>Journal of Composite Materials</i> , 2022, 56, 2867-2877.	2.4	8
156	Socketing of polyester fibre ropes with epoxy resins for deep-water mooring applications. <i>Polymer Testing</i> , 2006, 25, 1044-1051.	4.8	7
157	Tribology of composites produced with recycled GFRP waste. <i>Journal of Composite Materials</i> , 2015, 49, 2849-2858.	2.4	7
158	Effect of inter-laminar fibre orientation on the tensile properties of sisal fibre reinforced polyester composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 152, 012055.	0.6	7
159	Offloading marine hoses: Computational and experimental analyses. , 2019, , 389-416.		7
160	Development of multilaminar composites for vehicular ballistic protection using ultra-high molecular weight polyethylene laminates and aramid fabrics. <i>Journal of Composite Materials</i> , 2019, 53, 1907-1916.	2.4	7
161	Numerical Analysis of the Influence of Empty Channels Design on Performance of Resin Flow in a Porous Plate. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4054.	2.5	7
162	Experimental and artificial neural network approach for prediction of dynamic mechanical behavior of sisal/glass hybrid composites. <i>Polymers and Polymer Composites</i> , 2021, 29, S1033-S1043.	1.9	7

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163	Evaluation of Multilayer Thermoformed Films for Food Packaging. Polymer-Plastics Technology and Engineering, 2008, 47, 991-995.	1.9	6
164	Nanoreinforcements for Nanocomposite Materials. , 2011, , 119-131.		6
165	A numerical investigation of the resin flow front tracking applied to the RTM process. Materials Research, 2011, 14, 345-354.	1.3	6
166	Resin Transfer Molding Process: Fundamentals, Numerical Computation and Experiments. Advanced Structured Materials, 2012, , 121-151.	0.5	6
167	Resin Transfer Molding Process: A Numerical Investigation. Defect and Diffusion Forum, 0, 334-335, 193-198.	0.4	6
168	Algebraic rectilinear model for multilayer resin transfer molding injection. Journal of Reinforced Plastics and Composites, 2013, 32, 3-15.	3.1	6
169	Numerical Analysis of the Resin Transfer Molding Process via PAM-RTM Software. Defect and Diffusion Forum, 0, 365, 88-93.	0.4	6
170	Numerical and Experimental Analysis of the Tensile and Bending Behaviour of CFRP Cables. Polymers and Polymer Composites, 2017, 25, 643-650.	1.9	6
171	Transverse permeability determination and influence in resin flow through an orthotropic medium in the RTM process. Revista Materia, 2017, 22, .	0.2	6
172	Experimental design and theoretical analysis on the various tribological responses of curauÃ; polyester composites. Materials Research Express, 2019, 6, 125337.	1.6	6
173	Basalt fiber hybridization effects on the thermal degradation properties of curauÃ; fiber composites. Materials Today: Proceedings, 2020, 28, 258-260.	1.8	6
174	InfluÃªncia da Espessura nas Propriedades MecÃ¢nicas de CompÃ³sitos HÃbridos Interlaminares de CurauÃ; / Vidro / PoliÃ©ster. Polimeros, 2014, 24, 184-189.	0.7	6
175	Surface modification of carbon fiber with imidazolium ionic liquids. Composite Interfaces, 2022, 29, 915-927.	2.3	6
176	Desempenho de filmes multicamadas em embalagens termoformadas. Polimeros, 2007, 17, 188-193.	0.7	5
177	Two-dimensional control volume modeling of the resin infiltration of a porous medium with a heterogeneous permeability tensor. Materials Research, 2008, 11, 261-268.	1.3	5
178	Vegetable fibers as multifunctional materials. Revista Materia, 2010, 15, 355-363.	0.2	5
179	The effect of a sodium octacosanoate-based nucleating agent on the crystallization of thermoplastic polyurethanes. Polymer Engineering and Science, 2011, 51, 931-939.	3.1	5
180	The Effect of the Addition of Mg-Al LDH Intercalated with Dodecyl Sulfate on the Fire Retardancy Properties of Epoxy. Macromolecular Symposia, 2012, 319, 129-135.	0.7	5

#	ARTICLE	IF	CITATIONS
181	Composites of polyester+glass fiber residues vs. composites with mineral fillers. Composite Interfaces, 2012, 19, 511-522.	2.3	5
182	Sulfonation and characterization of styrene-indene copolymers for the development of proton conducting polymer membranes. Polimeros, 2012, 22, 395-400.	0.7	5
183	The novel use of sodium borohydride as a protective agent for the chemical treatment of vegetable fibers. Fibers and Polymers, 2012, 13, 641-646.	2.1	5
184	Application of calcium carbonate in resin transfer molding process: An experimental investigation. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 24-32.	0.9	5
185	Effect of curing temperature and layering pattern on performance studies: a novel hybrid composite. Journal of Polymer Engineering, 2015, 35, 127-134.	1.4	5
186	Numerical model updating applied to the simulation of carbon fiber-reinforced polymer cables under bending and tensile stress. Journal of Strain Analysis for Engineering Design, 2017, 52, 356-364.	1.8	5
187	Strength analysis of composite cables. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	5
188	Low velocity impact response of R-glass/epoxy composites produced by vacuum infusion. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2019, 2, 89-96.	2.1	5
189	The effect of fluorination of aramid fibers on vinyl ester composites. Polymer Composites, 2019, 40, 2095-2102.	4.6	5
190	Time-dependent properties of epoxy resin with imidazolium ionic liquid. Journal of Applied Polymer Science, 2021, 138, 51369.	2.6	5
191	Hemicellulose Removal in Curaua (Ananas erectifolius) Fibers for Polyester Composites. Nova Scientia, 2018, 10, 154-172.	0.1	5
192	Accelerated Ageing Effects on Short-Beam Strength Behavior of Pultruded CFRP Rods. Applied Composite Materials, 0, , 1.	2.5	5
193	Influence of hybridization on the mechanical and dynamic mechanical properties of aramid/S2-glass hybrid laminates. Materials Today Communications, 2022, 32, 104021.	1.9	5
194	Dynamic mechanical properties and the dynamic fragility concept applied to vegetal fiber on vegetal composite materials. Journal of Composite Materials, 2016, 50, 2469-2475.	2.4	4
195	Investigation to Appraise the Abrasive Water Jet Response of Curaua/Basalt Hybrid Polyester Composites. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2019, 9, 13-29.	0.4	4
196	Multiscale hybrid composites with carbon-based nanofillers. , 2019, , 449-470.		4
197	Production and characterization of cellulose nanocrystals/ acrylonitrile butadiene styrene nanocomposites. Journal of Composite Materials, 2020, 54, 4207-4214.	2.4	4
198	EPDM with Biochar, Carbon Black, Aramid Pulp and Ionic Liquid-compatible Aramid Pulp. Fibers and Polymers, 2021, 22, 1180-1188.	2.1	4

#	ARTICLE	IF	CITATIONS
199	Efeito de Aditivos Des aerantes nas Características de Compósitos de Epóxi/Fibras de Vidro. Polimeros, 2014, 24, 117-122.	0.7	4
200	Reuse of waste paper and rice hulls as filler in polymeric matrix composites. Revista Materia, 2017, 22, .	0.2	4
201	Comportamento térmico de compósitos de poliestireno reciclado reforçado com celulose de bagaço de cana. Revista Materia, 2019, 24, .	0.2	4
202	Composite for insole shoe assembly based on polyvinyl acetate and polyester fabric waste from the footwear industry. Polymer Composites, 2022, 43, 7360-7371.	4.6	4
203	Efeito da incorporação de talco nas características térmicas, mecânicas e dinâmico-mecânicas de poliuretanos termoplásticos. Revista Materia, 2011, 16, 597-605.	0.2	3
204	Effect of CaCO_3 Content in Resin Transfer Molding Process. Defect and Diffusion Forum, 0, 334-335, 188-192.	0.4	3
205	Gray optimization of process parameters of surface modification of coconut sheath reinforced polymer composites. Journal of Polymer Engineering, 2013, 33, 665-672.	1.4	3
206	Application of Calcium Carbonate in Resin Transfer Molding Process. Defect and Diffusion Forum, 0, 353, 39-43.	0.4	3
207	Análise numérica da pressão de ruptura de tubos à base de borracha e cordões poliméricos. Polimeros, 2015, 25, 109-116.	0.7	3
208	An Overview on Plant Fiber Technology: An Interdisciplinary Approach. , 2019, , 977-999.		3
209	Effect of carbonaceous nanofillers and triblock copolymers on the toughness of epoxy resin. Polymer Bulletin, 2020, 78, 5467.	3.3	3
210	Numerical-experimental structural instability analysis of composite tubes considering manufacturing parameters and imperfections. Polymer Composites, 2021, 42, 1530-1542.	4.6	3
211	Experimental damping ratio evaluation using Hilbert transform in filament-wound composite plates. Polymers and Polymer Composites, 2021, 29, S1578-S1587.	1.9	3
212	Inter and intralayer basalt hybrid effects on the static and vibrational behaviors of Brazilian curau/basalt hybrid composite. Materials Today: Proceedings, 2020, 33, 1212-1215.	1.8	3
213	Preparation and characterization of crosslinked resins containing ferrite particles. Polymer Engineering and Science, 2008, 48, 1878-1884.	3.1	2
214	Obtenção de um revestimento compósito de poliéster-uretana reforçado com alumina pela técnica de deposição por imersão sobre fibras de poliamida 6. Ceramica, 2009, 55, 379-384.	0.8	2
215	Resin Transfer Molding Process: A Numerical Analysis. Defect and Diffusion Forum, 2014, 353, 44-49.	0.4	2
216	Avaliação das características da resina epóxi com diferentes aditivos des aerantes. Polimeros, 2015, 25, 186-191.	0.7	2

#	ARTICLE	IF	CITATIONS
217	Effect of starch treatment and hybridisation on the mechanical properties of natural fibre composites. International Journal of Computer Aided Engineering and Technology, 2017, 9, 261.	0.2	2
218	Experimental evaluation of temperature effect on the transverse permeability of a fibrous preform. Materials Today: Proceedings, 2019, 8, 731-737.	1.8	2
219	Bending behavior of CFRP cables in the nonlinear displacement range. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	2
220	Hybrid composites: Experimental, numerical and analytical assessment aided by online software. Mechanics of Materials, 2020, 148, 103533.	3.2	2
221	Modeling of the resin transfer molding process including viscosity dependence with time and temperature. Polymer Composites, 2021, 42, 2795.	4.6	2
222	Spectroscopic analysis of chemically modified carbon fibres. Surface and Interface Analysis, 2021, 53, 901.	1.8	2
223	Short-beam shear fatigue behavior of round curved pultruded composite. Mechanics of Advanced Materials and Structures, 2022, 29, 5579-5587.	2.6	2
224	Indentation Creep Response and Rupture Mechanisms in GLARE: Experimental and Statistical Evaluation. Journal of Testing and Evaluation, 2021, 49, 1853-1863.	0.7	2
225	Geometrical evaluation of a resin infusion process by means of constructal design. International Journal of Heat and Technology, 2016, 34, S101-S108.	0.6	2
226	Energy conversion using Pd-based catalysts in direct ethanol fuel cell. Renewable Energy and Power Quality Journal, 0, , 242-345.	0.2	2
227	Processing, thermal and mechanical properties of composite laminates with natural fibers prepreps. Polymers and Polymer Composites, 2022, 30, 096739112210875.	1.9	2
228	Combined hygrothermal aging and mechanical loading effect on unidirectional glass/epoxy composites. Polymers and Polymer Composites, 2022, 30, 096739112210952.	1.9	2
229	A Methodology for the Evaluation of Mechanical Properties of Sausage Based on Tensile and Compression Tests. International Journal of Food Engineering, 2005, 1, .	1.5	1
230	Applying Computational Analysis in Studies of Resin Transfer Moulding. Defect and Diffusion Forum, 2012, 326-328, 158-163.	0.4	1
231	Metallic and composite cables: a brief review. International Journal of Computer Aided Engineering and Technology, 2018, 10, 179.	0.2	1
232	Micromechanics of Short-Fiber and Particulate Composites. , 2019, , 125-152.		1
233	Multi-component nanocomposites of epoxy/silsesquioxane reinforced with carbon fibers and carbon nanotubes processed by resin transfer molding. Polymer-Plastics Technology and Materials, 2020, 59, 517-526.	1.3	1
234	Tribological investigation on nano-graphene and curauÃi filled three-phase polymer composites. Materials Today: Proceedings, 2020, 28, 172-176.	1.8	1

#	ARTICLE	IF	CITATIONS
235	Tribological studies and modal analysis on biocomposite/PVC core sandwich panels. , 2021, , 301-319.		1
236	CEMENT COMPOSITES REINFORCED WITH TEOS-TREATED WOOD FIBRES. Cellulose Chemistry and Technology, 2021, 55, 141-147.	1.2	1
237	Biocarbons for Energy Conversion and Storage: DEFCs and Supercapacitors Applications. Renewable Energy and Power Quality Journal, 0, , 210-215.	0.2	1
238	Comparison of Non-Destructive Techniques for Impact Damage Area Assessment in Aramid/Epoxy Composites. , 0, , .		1
239	CURVED PULTRUDED UNIDIRECTIONAL CARBON FIBER COMPOSITE UNDER INTERLAMINAR SHEAR FATIGUE LOADING. , 0, , .		1
240	Does the viscoelastic behavior of fully cured epoxy depend on the thermal history during curing?. Journal of Composite Materials, 2022, 56, 3439-3453.	2.4	1
241	Evaluation of Compression Moulded Composites of Oxidised Polyacrylonitrile Fibres as a Friction Material for Automotive Brake Pads. , 1998, , .		0
242	Carbon nanotube hybrid polymer composites. , 2017, , 133-150.		0
243	CaCO ₃ Particle-Filled Polymer Composite Manufacturing via RTM Process: An Experimental Investigation. Defect and Diffusion Forum, 2019, 391, 30-35.	0.4	0
244	Composite materials for mooring applications: Manufacturing, material characterization, and design. , 2019, , 451-490.		0
245	A Revista Matéria e o 8º Congresso Brasileiro de Carbono. Revista Materia, 2021, 26, .	0.2	0
246	Evaluation of Flow-Mesh Influence in Resin Injection Processes. Applied Composite Materials, 2021, 28, 369-380.	2.5	0
247	Compósitos de Poliestireno e Argila Aniônica Funcionalizada com Cinamato com Propriedade de Absorção de UV. Polimeros, 2013, 23, 778-783.	0.7	0
248	The 3rd Brazilian Conference on Composite Materials - BCCM3. Revista Materia, 2017, 22, .	0.2	0
249	Numerical Analysis of Carbon Fiber Cables for Mooring Lines Under Tensile and Bending Loading. International Journal of Offshore and Polar Engineering, 2018, 28, 387-392.	0.8	0
250	VALIDAÇÃO DE DOIS MODELOS NUMÉRICOS (AXISSIMÉTRICO E TRIDIMENSIONAL) PARA SOLUÇÃO DE PROBLEMAS DE MOLDAGEM LÂQUIDA. Revista Mundi Engenharia Tecnologia E Gestão (ISSN 2525-4782), 2023, 4, .	0.0	0
251	Polyester/paper composites: study of manufacturing techniques for product development. Revista Materia, 2020, 25, .	0.2	0
252	Reaproveitamento de resíduo de placas de circuito impresso como cargas em compósitos de polipropileno. Revista Materia, 2020, 25, .	0.2	0