

Roberto A Lopez-Anido

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1773915/publications.pdf>

Version: 2024-02-01

57
papers

1,377
citations

331670

21
h-index

361022

35
g-index

58
all docs

58
docs citations

58
times ranked

1209
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing the interlayer tensile strength of 3D printed short carbon fiber reinforced PETG and PLA composites via annealing. <i>Additive Manufacturing</i> , 2019, 30, 100922.	3.0	117
2	On the Mechanics of Thin-Walled Laminated Composite Beams. <i>Journal of Composite Materials</i> , 1993, 27, 806-829.	2.4	100
3	Progressive failure analysis of three-dimensional woven carbon composites in single-bolt, double-shear bearing. <i>Composites Part B: Engineering</i> , 2016, 84, 266-276.	12.0	86
4	Water absorption of wood polypropylene composite sheet piles and its influence on mechanical properties. <i>Construction and Building Materials</i> , 2011, 25, 3977-3988.	7.2	84
5	Structural health monitoring of marine composite structural joints using embedded fiber Bragg grating strain sensors. <i>Composite Structures</i> , 2009, 89, 224-234.	5.8	83
6	Experimental investigation of three-dimensional woven composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 73, 242-259.	7.6	82
7	Experimental characterization of FRP composite-wood pile structural response by bending tests. <i>Marine Structures</i> , 2003, 16, 257-274.	3.8	49
8	Bending behavior of concrete-filled tubular FRP arches for bridge structures. <i>Construction and Building Materials</i> , 2012, 37, 432-439.	7.2	47
9	Structural Characterization of Hybrid Fiber-Reinforced Polymer-Glulam Panels for Bridge Decks. <i>Journal of Composites for Construction</i> , 2002, 6, 194-203.	3.2	44
10	Time and temperature dependent response of a wood-polypropylene composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 834-842.	7.6	44
11	Bond durability characterization of preservative treated wood and E-glass/phenolic composite interfaces. <i>Composites Science and Technology</i> , 2003, 63, 979-991.	7.8	43
12	Structural performance of hybrid SPFs-LSL cross-laminated timber panels. <i>Construction and Building Materials</i> , 2017, 149, 156-163.	7.2	43
13	Carbon fiber-vinyl ester composite reinforcement of wood using the VARTM/SCRIMP fabrication process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004, 35, 1257-1265.	7.6	41
14	Flexure creep properties of E-glass reinforced polymers. <i>Composite Structures</i> , 2003, 62, 247-253.	5.8	36
15	Finite element analysis of thermoplastic polymer extrusion 3D printed material for mechanical property prediction. <i>Additive Manufacturing</i> , 2018, 22, 187-196.	3.0	35
16	Glass-transition temperature based on dynamic mechanical thermal analysis techniques as an indicator of the adhesive performance of vinyl ester resin. <i>Journal of Applied Polymer Science</i> , 2005, 97, 2221-2229.	2.6	33
17	Behavior of three-dimensional woven carbon composites in single-bolt bearing. <i>Composite Structures</i> , 2015, 127, 175-184.	5.8	30
18	Repair of Wood Piles Using Prefabricated Fiber-Reinforced Polymer Composite Shells. <i>Journal of Performance of Constructed Facilities</i> , 2005, 19, 78-87.	2.0	27

#	ARTICLE	IF	CITATIONS
19	Interlaminar fracture toughness of woven E-glass fabric composites. <i>Journal of Composite Materials</i> , 2012, 46, 1583-1592.	2.4	27
20	Warping Solution for Shear Lag in Thin-Walled Orthotropic Composite Beams. <i>Journal of Engineering Mechanics - ASCE</i> , 1996, 122, 449-457.	2.9	26
21	Monitoring fungal degradation of E-glass/phenolic fiber reinforced polymer (FRP) composites used in wood reinforcement. <i>International Biodeterioration and Biodegradation</i> , 2003, 51, 157-165.	3.9	24
22	Experimental Evaluation of Stiffness of Laminated Composite Beam Elements under Flexure. <i>Journal of Reinforced Plastics and Composites</i> , 1995, 14, 349-361.	3.1	22
23	Resistance welding of glass fiber reinforced PET: Effect of weld pressure and heating element geometry. <i>Journal of Reinforced Plastics and Composites</i> , 2016, 35, 974-985.	3.1	18
24	Freeze-Thaw Resistance of Fiber-Reinforced Polymer Composites Adhesive Bonds with Underwater Curing Epoxy. <i>Journal of Materials in Civil Engineering</i> , 2004, 16, 283-286.	2.9	16
25	Fiber Reinforced Polymer Composite-Wood Pile Interface Characterization by Push-Out Tests. <i>Journal of Composites for Construction</i> , 2004, 8, 360-368.	3.2	14
26	Finite element modeling of 3D-printed part with cellular internal structure using homogenized properties. <i>Progress in Additive Manufacturing</i> , 2019, 4, 143-154.	4.8	14
27	Experimental investigation of the hygrothermal creep strain of wood-plastic composite lumber made from thermally modified wood. <i>Journal of Thermoplastic Composite Materials</i> , 2020, 33, 1248-1268.	4.2	14
28	Assessment of Wood Pile Deterioration due to Marine Organisms. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2004, 130, 70-76.	1.2	13
29	Discrete-Event Simulation Thermal Model for Extrusion-Based Additive Manufacturing of PLA and ABS. <i>Materials</i> , 2020, 13, 4985.	2.9	13
30	Comparison of the fatigue behaviors of FRP bridge decks and reinforced concrete conventional decks under extreme environmental conditions. <i>Journal of Mechanical Science and Technology</i> , 2003, 17, 1-10.	0.4	12
31	Elasto-Plastic Finite Element Modeling of Short Carbon Fiber Reinforced 3D Printed Acrylonitrile Butadiene Styrene Composites. <i>Jom</i> , 2020, 72, 475-484.	1.9	12
32	Flexural Creep Behavior of High-Density Polyethylene Lumber and Wood Plastic Composite Lumber Made from Thermally Modified Wood. <i>Polymers</i> , 2020, 12, 262.	4.5	10
33	Numerical Modeling and Experimental Investigation of Effective Elastic Properties of the 3D Printed Gyroid Infill. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2180.	2.5	10
34	Effects of Fiber Orientation on the Coefficient of Thermal Expansion of Fiber-Filled Polymer Systems in Large Format Polymer Extrusion-Based Additive Manufacturing. <i>Materials</i> , 2022, 15, 2764.	2.9	10
35	Structural Performance of Wood Plastic Composite Sheet Piling. <i>Journal of Materials in Civil Engineering</i> , 2010, 22, 1235-1243.	2.9	9
36	Probabilistic Finite Element Analysis of ASTM D6641 Compression Test for Marine Grade Polymer Matrix Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2009, 28, 897-911.	3.1	8

#	ARTICLE	IF	CITATIONS
37	The effect of edge gaps on shear strength and rolling shear modulus of cross laminated timber panels. <i>Construction and Building Materials</i> , 2020, 259, 119710.	7.2	8
38	Structural Performance of HDPE and WPC Lumber Components Used in Aquacultural Geodesic Spherical Cages. <i>Polymers</i> , 2020, 12, 26.	4.5	7
39	Electron microprobe imaging for the characterization of polymer matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004, 35, 1075-1080.	7.6	6
40	Mechanical Property Characterization of Fiber-Reinforced Polymer Wood-Polypropylene Composite Panels Manufactured Using a Double Belt Pressing Technology. <i>Journal of Materials in Civil Engineering</i> , 2012, 24, 1193-1200.	2.9	6
41	Strain rate and temperature effects of polymer foam core material. <i>Journal of Sandwich Structures and Materials</i> , 2014, 16, 66-87.	3.5	6
42	Experimental and numerical investigation of splicing of concrete-filled fiber-reinforced polymer tubes. <i>Construction and Building Materials</i> , 2018, 173, 461-473.	7.2	6
43	Macroapproach Closed-Form Series Solution for Orthotropic Plates. <i>Journal of Structural Engineering</i> , 1995, 121, 420-432.	3.4	5
44	Development of Thermoplastic Composite Reinforced Ultra-High-Performance Concrete Panels for Impact Resistance. <i>Materials</i> , 2021, 14, 2490.	2.9	5
45	Modeling the hygrothermal creep behavior of wood plastic composite (WPC) lumber made from thermally modified wood. <i>Journal of Thermoplastic Composite Materials</i> , 2020, 33, 1109-1124.	4.2	4
46	Modeling the Long-Term Deformation of a Geodesic Spherical Frame Structure Made from Wood Plastic Composite Lumber. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5017.	2.5	4
47	Integration of Material Characterization, Thermoforming Simulation, and As-Formed Structural Analysis for Thermoplastic Composites. <i>Polymers</i> , 2022, 14, 1877.	4.5	4
48	Effect of Strain Rate on Flexural Properties of Wood Plastic Composite Sheet Pile. <i>Forest Products Journal</i> , 2010, 60, 465-472.	0.4	3
49	A Note on Reinforcement of Polymer Matrix Composites Using Carbon Residues Derived From Woody Biomass. <i>Journal of Composite Materials</i> , 2010, 44, 1883-1892.	2.4	2
50	Variability in the Material Properties of Polymer Matrix Composites for Marine Structures. <i>Journal of ASTM International</i> , 2010, 7, 1-18.	0.2	2
51	Integrated Monitoring System for Carbon Composite Strands in Cable-Stayed Bridge, Penobscot Narrows, Maine. <i>Transportation Research Record</i> , 2008, 2050, 177-186.	1.9	1
52	Scale and manufacturing effects on tensile strength of marine grade sandwich composite panel joints. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 1983-2008.	3.5	1
53	Withdrawal Capacity of Plain, Annular Shank, and Helical Shank Nail Fasteners in Spruce-Pine-Fir Lumber. <i>Forest Products Journal</i> , 2013, 63, 213-220.	0.4	1
54	Postbuckling of One-Dimensional Elements with Thin-Walled Angle Section Using Simplified Models*. <i>Mechanics Based Design of Structures and Machines</i> , 1996, 24, 475-497.	0.6	0

#	ARTICLE	IF	CITATIONS
55	Multi-Scale Analyzer for Assessing Processing Uncertainty on Marine Composite Structures. , 2005, , .		0
56	Effect of Resin Cure Recipe and Ambient Processing Temperature on the Material Properties of Marine Grade Polymer Matrix Composite Materials. Materials Performance and Characterization, 2013, 2, 20120003.	0.3	0
57	Comparison of Surface Treatments for Secondarily Bonded Joints of Marine Grade Composites. Materials Performance and Characterization, 2019, 8, 20180085.	0.3	0