

Laura H De Carvalho

List of Publications by Year in descending order

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83
papers

1,528
citations

331670

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361022

35
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86
all docs

86
docs citations

86
times ranked

1551
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of wettability and ageing conditions on the physical and mechanical properties of uniaxially oriented jute-roving-reinforced polyester composites. <i>Composites Science and Technology</i> , 2000, 60, 833-844.	7.8	217
2	Properties of Biodegradable Films Based on Poly(butylene Succinate) (PBS) and Poly(butylene Terephthalate) (PBT) Blends. <i>Journal of Applied Polymer Science</i> , 2019, 143, 4750-4760.	4.5	95
3	Mechanical properties of phenolic composites reinforced with jute/cotton hybrid fabrics. <i>Polymer Composites</i> , 2005, 26, 1-11.	4.6	81
4	Chain extension of virgin and recycled poly(ethylene terephthalate): Effect of processing conditions and reprocessing. <i>Polymer Degradation and Stability</i> , 2016, 124, 26-34.	5.8	61
5	Tailoring PBAT/PLA/Babassu films for suitability of agriculture mulch application. <i>Journal of Natural Fibers</i> , 2019, 16, 933-943.	3.1	51
6	Characterization of pristine and purified organobentonites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 563-569.	3.6	50
7	Chain extension in poly(butylene-adipate-terephthalate). Inline testing in a laboratory internal mixer. <i>Polymer Testing</i> , 2015, 42, 115-121.	4.8	48
8	Degradation and recovery in poly(butylene adipate-co-terephthalate)/thermoplastic starch blends. <i>Polymer Testing</i> , 2017, 58, 166-172.	4.8	48
9	Application of Infrared Spectroscopy to Analysis of Chitosan/Clay Nanocomposites. <i>Journal of Applied Polymer Science</i> , 2019, 143, 4750-4760.		45
10	Process simulation of laboratory internal mixers. <i>Polymer Testing</i> , 2016, 50, 94-100.	4.8	43
11	Curing behavior of a novolac-type phenolic resin analyzed by differential scanning calorimetry. <i>Journal of Applied Polymer Science</i> , 2003, 90, 1678-1682.	2.6	42
12	Degradation during processing in poly(butylene adipate-co-terephthalate)/vegetable fiber compounds estimated by torque rheometry. <i>Polymer Testing</i> , 2016, 55, 204-211.	4.8	33
13	Rheological and thermal characterization of PCL/PBAT blends. <i>Polymer Bulletin</i> , 2019, 76, 1573-1593.	3.3	33
14	Morphological, structural, thermal properties of a native starch obtained from babassu mesocarp for food packaging application. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15670-15678.	5.8	33
15	Fungal degradation of reprocessed PP/PBAT/thermoplastic starch blends. <i>Journal of Materials Research and Technology</i> , 2020, 9, 2338-2349.	5.8	33
16	PBAT/organoclay composite films: preparation and properties. <i>Polymer Bulletin</i> , 2017, 74, 4423-4436.	3.3	32
17	Compositos de matriz poliéster reforçados por fibras curtas de sisal. <i>Polimeros</i> , 1999, 9, 136-141.	0.7	30
18	Effect of Babassu Natural Filler on PBAT/PHB Biodegradable Blends: An Investigation of Thermal, Mechanical, and Morphological Behavior. <i>Materials</i> , 2018, 11, 820.	2.9	30

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19	Nonisothermal melt crystallization of PHB/babassu compounds. Journal of Thermal Analysis and Calorimetry, 2016, 126, 755-769.	3.6	26
20	Rheological, mechanical and morphological properties of poly(butylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (adipate-co-tereph Polymer Testing, 2018, 70, 281-288.	4.8	26
21	Biodegradation of mulch films from poly(butylene adipate co-terephthalate), carnauba wax, and sugarcane residue. Journal of Applied Polymer Science, 2019, 136, 48240.	2.6	25
22	PBAT/organoclay composite films”part 2: effect of UV aging on permeability, mechanical properties and biodegradation. Polymer Bulletin, 2019, 76, 291-301.	3.3	24
23	Clays for polymeric nanocomposites. Polymer Engineering and Science, 2011, 51, 559-572.	3.1	22
24	Degradation during processing of vegetable fiber compounds based on PBAT/PHB blends. Polymer Testing, 2018, 69, 266-275.	4.8	22
25	Effect of clay/water ratio during bentonite clay organophilization on the characteristics of the organobentonites and its polypropylene nanocomposites. Polymer Engineering and Science, 2009, 49, 1696-1702.	3.1	20
26	An experimental study of water absorption in polyester composites reinforced with macambira natural fiber. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 979-984.	0.9	20
27	Preparation and characterization of polymeric films based on PLA, PBAT and corn starch and babassu mesocarp starch by flat extrusion. Materials Research Express, 2021, 8, 035305.	1.6	17
28	Propriedades mec�nicas de tra�s�o de comp�sitos poli�ster/tecidos h�bridos sisal/vidro. Polimeros, 2006, 16, 33-37.	0.7	16
29	Effects of the type of processing on thermal, morphological and acoustic properties of syntactic foams. Composites Part B: Engineering, 2019, 173, 106933.	12.0	16
30	Thermal behavior of biodegradable bionanocomposites: influence of bentonite and vermiculite clays. Journal of Materials Research and Technology, 2019, 8, 3234-3243.	5.8	15
31	Thermal evaluation of PHB/PP-g-MA blends and PHB/PP-g-MA/vermiculite bionanocomposites after biodegradation test. Polymer Engineering and Science, 2016, 56, 555-560.	3.1	14
32	Effect of filler type on properties of PBAT/organoclay nanocomposites. Polymer Bulletin, 2020, 77, 901-917.	3.3	14
33	Characterization of Poly(Ethylene Terephthalate) by Torque Rheometry. Materials Research, 2021, 24, .	1.3	14
34	Polycaprolactone/babassu compounds: Rheological, thermal, and morphological characteristics. Polymer Composites, 2019, 40, E540.	4.6	13
35	Effect of composition on permeability, mechanical properties and biodegradation of PBAT/PCL blends films. Polymer Bulletin, 2022, 79, 5327-5338.	3.3	11
36	Crystallization behavior of polycaprolactone/babassu compounds. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2963-2972.	3.6	10

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37	Grafting of poly(methyl methacrylate) in aqueous slurries of wood pulp. <i>Journal of Applied Polymer Science</i> , 1984, 29, 2921-2927.	2.6	9
38	Influência da adição de uma carga nanoparticulada no desempenho de compósitos poliuretano/fibra de juta. <i>Polimeros</i> , 2007, 17, 10-15.	0.7	9
39	Sorção de água em compósitos de poliéster insaturado reforçados com tecido de juta e juta/vidro modelagem, simulação e experimentação. <i>Polimeros</i> , 2010, 20, 78-83.	0.7	9
40	Uso de argila organofílica na compatibilização de misturas PP/EPDM. <i>Polimeros</i> , 2011, 21, 421-428.	0.7	9
41	Deuterium magnetic resonance study of .alpha.,.omega.-dicarboxylic acid guests in disk micelles of varied bilayer thickness. <i>Journal of the American Chemical Society</i> , 1981, 103, 245-246.	13.7	8
42	Effect of Babassu Mesocarp Incorporation on the Biodegradation of a PBAT/TPS Blend. <i>Macromolecular Symposia</i> , 2019, 383, 1800043.	0.7	8
43	Rheological, thermal and morphological properties of polyethylene terephthalate/polyamide 6/rice husk ash composites. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50916.	2.6	8
44	Effect of Reprocessing Cycles on the Morphology and Mechanical Properties of a Poly(Propylene)/Poly(Hydroxybutyrate) Blend and its Nanocomposite. <i>Materials Research</i> , 2021, 24, .	1.3	8
45	Assessment of the Morphology and Interaction of PHBV/Clay Bionanocomposites: Uses as Food Packaging. <i>Macromolecular Symposia</i> , 2016, 367, 113-118.	0.7	7
46	Melt and cold crystallization in a poly(3-hydroxybutyrate) poly(butylene adipate-co-terephthalate) blend. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1341-1346.	3.6	7
47	Effect of Cis-1,3-docosamide in the Properties of Compatibilized Polypropylene/Clay Nanocomposites. <i>Macromolecular Symposia</i> , 2016, 367, 68-75.	0.7	6
48	PHB/Bentonite Compounds. Effect of Clay Modification and Thermal Aging on Properties. <i>Materials Research</i> , 2017, 20, 1503-1510.	1.3	6
49	Tayloring PS/PCL blends: characteristics of processing and properties. <i>REM: International Engineering Journal</i> , 2019, 72, 87-95.	0.4	6
50	Effects of weathering on mechanical and morphological properties cork filled green polyethylene eco-composites. <i>Polimeros</i> , 2020, 30, .	0.7	6
51	Influence of Carnauba Wax on Films of Poly (Butylene Adipate Co-Terephthalate) and Sugarcane Residue for Application in Soil Cover (Mulching). <i>Materials Research</i> , 2019, 22, .	1.3	6
52	Thermal and Rheological Characterization of Recycled PET/Virgin HDPE Blend Compatibilized with PE-g-MA and an Epoxy Chain Extender. <i>Polymers</i> , 2022, 14, 1144.	4.5	6
53	Caracterização de compósitos obtidos a partir de polímero biodegradável e casca de arroz utilizando duas técnicas de processamento. <i>Revista Materia</i> , 2016, 21, 391-406.	0.2	5
54	Evaluation of the morphology, mechanical and thermal properties of cork and green polyethylene ecocomposites. <i>Materials Research Express</i> , 2019, 6, 095331.	1.6	5

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55	Biodegradation Evaluation of Composites with Natural Fiber by Weight Loss and CO2 Production. Revista Virtual De Quimica, 2016, 8, 1115-1129.	0.4	5
56	Inflamabilidade de Nanocompósitos de Polipropileno/Argila Organofílica. Polimeros, 2014, 24, 307-313.	0.7	5
57	Efeitos das condições de preparação e de modificação de superfície de membranas de PEUAPM na separação água/óleo. Polimeros, 2009, 19, 72-78.	0.7	4
58	Biodegradability of and interaction in the packaging of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) vermiculite bionanocomposites. Journal of Applied Polymer Science, 2017, 134, .	2.6	4
59	The influence of natural clay and organoclay vermiculite on the formation process of bionanocomposites with poly (3-hydroxybutyrate-co-3-hydroxyvalerate). Revista Materia, 2017, 22, .	0.2	4
60	Development of a smart system for diagnosing the operating conditions of a helicopter prototype via vibrations analysis. Research, Society and Development, 2021, 10, e304101220546.	0.1	4
61	Efeito do Co-Intercalante CIS-13-Docosenamida na Morfologia e Propriedades Mecânicas de compósitos Polipropileno/Argila Organofílica. Polimeros, 2013, 23, 672-677.	0.7	4
62	Polystyrene modified by grafting. Journal of the Brazilian Chemical Society, 1997, 8, 197-202.	0.6	3
63	Desenvolvimento de filmes de nanocompósitos polipropileno/argila organofílica para embalagens. Polimeros, 2012, 22, 238-244.	0.7	3
64	Thermal stability of poly(3-hydroxybutyrate)/vegetable fiber composites. AIP Conference Proceedings, 2015, , .	0.4	3
65	Influência da argila vermiculita brasileira na biodegradação de filmes de PHB. Polimeros, 2015, 25, 483-491.	0.7	3
66	Mechanical behavior of composites reinforced with fibers caroa. Fibers and Polymers, 2016, 17, 1908-1915.	2.1	3
67	Influence of Gamma Radiation on the Properties of Biodegradable PBAT " Poly (butylene Adipate) Tj ETQq1 1 0.784314 rgBT /Overload 2000057.	0.7	3
68	Preparation of Syntactic Foams made from Green Polyethylene and Glass Microspheres: Morphological and Mechanical Characterization. Materials Research, 2019, 22, .	1.3	3
69	Influência da concentração e purificação da argila na estrutura e permeabilidade ao vapor de água de nanocompósitos PEBDL/bentonita. Polimeros, 2013, 23, 108-114.	0.7	3
70	Efeito de diferentes tipos de argilas e modificadores orgânicos na morfologia e propriedades térmicas dos nanocompósitos de PET. Polimeros, 2011, 21, 195-203.	0.7	2
71	Effect of water absorption on the mechanical properties of poly(3-hydroxybutyrate)/vegetable fiber composites. AIP Conference Proceedings, 2015, , .	0.4	2
72	Mulch films based on poly(butylene adipate-co-terephthalate)/carnauba wax/sugar cane residue: Effects on soil temperature and moisture. Journal of Composite Materials, 0, , 002199832110116.	2.4	2

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73	The effect of clay organophilization on wood plastic composite (WPC) based on recycled high density polyethylene (HDPE) and coir fiber. Progress in Rubber, Plastics and Recycling Technology, 2021, 37, 394-411.	1.8	2
74	Rheological, thermal and mechanical characterization of PBAT/PCL/Stearates blends. Research, Society and Development, 2022, 11, e47811326630.	0.1	2
75	Preparation of Biodegradable Polymer Nanocomposites and Vermiculite Clay by Melt Intercalation Technique. Materials Science Forum, 0, 775-776, 357-362.	0.3	1
76	Thermal properties of poly(3-hydroxybutyrate)/vegetable fiber composites. AIP Conference Proceedings, 2015, , .	0.4	1
77	Heat transfer coefficient in internal mixers for different polymers and processing conditions. Chemical Engineering Research and Design, 2019, 152, 466-473.	5.6	1
78	Disclosing the complex crystallization of PBAT/PLA/Babassu biocompounds through MDSC analysis. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	1
79	Rheological characteristics PBAT/organoclay compounds. REM: International Engineering Journal, 2019, 72, 243-250.	0.4	0
80	Eco-Friendly Metamaterial Antenna for 2.4GHz WLAN Applications. , 2020, , .		0
81	Resin flow analysis during RTM Manufacturing of GFRP composites containing embedded impermeable inserts. Research, Society and Development, 2021, 10, e10410615362.	0.1	0
82	AvaliaÃ§Ã£o do efeito do tratamento a plasma sobre a superfÃ¡cie de filmes de polietileno verde e argila vermiculita. Revista Materia, 2019, 24, .	0.2	0
83	Physical, Morphological, Structural, Thermal and Antimicrobial Characterization of Films based on Poly(Lactic Acid), Organophilic Montmorillonite and Oregano Essential Oil. Materials Research, 0, 25, .	1.3	0