

Ajf Carvalho

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

3,532
citations

31
h-index

58
g-index

109
ext. papers

3,868
ext. citations

5.5
avg, IF

5.51
L-index

#	Paper	IF	Citations
96	Cellulose nanofibers production using a set of recombinant enzymes. <i>Carbohydrate Polymers</i> , 2021 , 256, 117510	10.3	12
95	Low permeable hydrophobic nanofibrillated cellulose films modified by dipping and heating processing technique. <i>Cellulose</i> , 2021 , 28, 1617-1632	5.5	4
94	Poly-(lactic acid) and fibrin bioactive cellularized scaffold for use in bone regenerative medicine: Proof of concept. <i>Journal of Bioactive and Compatible Polymers</i> , 2021 , 36, 171-184	2	
93	TEMPO-oxidized cellulose poly-ionic drawn fiber, a cell support system proof of concept. <i>Journal of Materials Science</i> , 2021 , 56, 16661-16670	4.3	
92	Non-freezing water sorbed on microcrystalline cellulose studied by high-resolution thermogravimetric analysis. <i>Cellulose</i> , 2021 , 28, 10117	5.5	0
91	Conjugation of folic acid with TEMPO-oxidized cellulose hydrogel for doxorubicin administration. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021 , 2, 100019	1.7	
90	TEMPO-Oxidized Cellulose Nanofibers In Vitro Cyto-genotoxicity Studies. <i>BioNanoScience</i> , 2020 , 10, 766-772	3.72	6
89	The contribution of bisfurfurylamine to the development and properties of polyureas. <i>Polymer International</i> , 2020 , 69, 688-692	3.3	4
88	Nanochitins of Varying Aspect Ratio and Properties of Microfibers Produced by Interfacial Complexation with Seaweed Alginate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1137-1145	8.3	15
87	Thermally reversible nanocellulose hydrogels synthesized via the furan/maleimide Diels-Alder click reaction in water. <i>International Journal of Biological Macromolecules</i> , 2019 , 141, 493-498	7.9	14
86	Thermoformed Polypropylene Composite Reinforced with Cotton Fabric. <i>Macromolecular Symposia</i> , 2019 , 383, 1800068	0.8	
85	Water-Based Processing of Fiberboard of Acrylic Resin Composites Reinforced With Cellulose Wood Pulp and Cellulose Nanofibrils. <i>Journal of Renewable Materials</i> , 2019 , 7, 403-413	2.4	1
84	Wood pulp fiber modification by layer-by-layer (LBL) self-assembly of chitosan/carboxymethyl cellulose complex: Confocal microscopy characterization. <i>Journal of Molecular Liquids</i> , 2019 , 273, 368-373	6	7
83	Thermoplastic blends of chitosan: A method for the preparation of high thermally stable blends with polyesters. <i>Carbohydrate Polymers</i> , 2018 , 191, 44-52	10.3	23
82	Characterization of thermally crosslinkable polyester films by thermomechanical analysis: a versatile and very sensitive technique for the evaluation of low crosslinking degree in polymers. <i>Polymer International</i> , 2018 , 67, 1011-1015	3.3	0
81	Macromolecular materials based on the application of the Diels-Alder reaction to natural polymers and plant oils. <i>European Journal of Lipid Science and Technology</i> , 2018 , 120, 1700091	3	30
80	Microfibrillated Cellulose from Sugarcane Bagasse as a Biorefinery Product for Ethanol Production. <i>Journal of Renewable Materials</i> , 2018 , 6, 195-202	2.4	7

79	Polystyrene/cellulose nanofibril composites: Fiber dispersion driven by nanoemulsion flocculation. <i>Journal of Molecular Liquids</i> , 2018 , 272, 387-394	6	9
78	Nanocomposites of acid free CNC and HDPE: Dispersion from solvent driven by fast crystallization/gelation. <i>Journal of Molecular Liquids</i> , 2018 , 266, 233-241	6	6
77	Continuous microfiber drawing by interfacial charge complexation between anionic cellulose nanofibers and cationic chitosan. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13098-13103	13	48
76	Furan-modified natural rubber: A substrate for its reversible crosslinking and for clicking it onto nanocellulose. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 762-768	7.9	18
75	Low-cost, environmentally friendly route for producing CFRP laminates with microfibrillated cellulose interphase. <i>EXPRESS Polymer Letters</i> , 2017 , 11, 47-59	3.4	14
74	TEMPO-oxidized cellulose nanofibers as interfacial strengthener in continuous-fiber reinforced polymer composites. <i>Materials and Design</i> , 2017 , 133, 340-348	8.1	22
73	Progress of Polymers from Renewable Resources: Furans, Vegetable Oils, and Polysaccharides. <i>Chemical Reviews</i> , 2016 , 116, 1637-69	68.1	495
72	Biomedical Applications for Thermoplastic Starch 2016 , 1-23		3
71	Water Susceptibility and Mechanical Properties of Thermoplastic Starch/Pectin Blends Reactively Extruded with Edible Citric Acid. <i>Materials Research</i> , 2016 , 19, 138-142	1.5	11
70	A minimalist furan/haleimide AB-type monomer and its thermally reversible Diels/Alder polymerization. <i>RSC Advances</i> , 2016 , 6, 45696-45700	3.7	11
69	The potential of TEMPO-oxidized nanofibrillar cellulose beads for cell delivery applications. <i>Cellulose</i> , 2016 , 23, 3399-3405	5.5	14
68	Low-cost, environmentally friendly route to produce glass fiber-reinforced polymer composites with microfibrillated cellulose interphase. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	6
67	Thermoreversible crosslinked thermoplastic starch. <i>Polymer International</i> , 2015 , 64, 1366-1372	3.3	9
66	A new approach to blending starch with natural rubber. <i>Polymer International</i> , 2015 , 64, 605-610	3.3	17
65	Recycling tires? Reversible crosslinking of poly(butadiene). <i>Advanced Materials</i> , 2015 , 27, 2242-5	24	105
64	Ternary melt blends of poly(lactic acid)/poly(vinyl alcohol)-chitosan. <i>Industrial Crops and Products</i> , 2015 , 72, 159-165	5.9	14
63	Two alternative approaches to the Diels/Alder polymerization of tung oil. <i>RSC Advances</i> , 2014 , 4, 26829	3.7	26
62	TPS Nanocomposite reinforced with MFC by melting process. <i>Materials Research</i> , 2014 , 17, 807-810	1.5	5

61	Nanocelluloses from Eucalyptus Wood Pulp. <i>Journal of Renewable Materials</i> , 2014 , 2, 118-122	2.4	2
60	Starch: Major Sources, Properties and Applications as Thermoplastic Materials 2013 , 129-152		6
59	Sleeving nanocelluloses by admicellar polymerization. <i>Journal of Colloid and Interface Science</i> , 2013 , 408, 256-8	9.3	12
58	Newspaper fiber-reinforced thermoplastic starch biocomposites obtained by melt processing: Evaluation of the mechanical, thermal and water sorption properties. <i>Industrial Crops and Products</i> , 2013 , 44, 300-305	5.9	34
57	Starch-g-Copolymers: Synthesis, Properties and Applications 2013 , 59-109		7
56	Simple green approach to reinforce natural rubber with bacterial cellulose nanofibers. <i>Biomacromolecules</i> , 2013 , 14, 2667-74	6.9	57
55	A straightforward double coupling of furan moieties onto epoxidized triglycerides: synthesis of monomers based on two renewable resources. <i>Green Chemistry</i> , 2013 , 15, 1514	10	25
54	High Lithium Ion Electroinsertion Rate into Self-Assembled Films Formed from TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16774-16782	3.8	7
53	Effect of a Polymeric Protective Coating on Optical and Electrical Properties of Poly(p-phenylene vinylene) Derivatives. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-5	3.2	
52	Electrical characterization of poly(amide-imide) for application in organic field effect devices. <i>Organic Electronics</i> , 2012 , 13, 2109-2117	3.5	9
51	Compatible blends of thermoplastic starch and hydrolyzed ethylene-vinyl acetate copolymers. <i>Carbohydrate Polymers</i> , 2012 , 90, 34-40	10.3	30
50	LDPE/EVA Composites for Antimicrobial Properties. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 556, 168-175	0.5	6
49	Natural fiber-reinforced thermoplastic starch composites obtained by melt processing. <i>Composites Science and Technology</i> , 2012 , 72, 858-863	8.6	125
48	Compatible ternary blends of chitosan/poly(vinyl alcohol)/poly(lactic acid) produced by oil-in-water emulsion processing. <i>Biomacromolecules</i> , 2011 , 12, 907-14	6.9	69
47	Blendas compatíveis de amido termoplástico e polietileno de baixa densidade compatibilizadas com óleo cérico. <i>Polimeros</i> , 2011 , 21, 353-360	1.6	15
46	Starch as Source of Polymeric Materials 2011 , 81-98		5
45	Thermoplastic starch modified during melt processing with organic acids: The effect of molar mass on thermal and mechanical properties. <i>Industrial Crops and Products</i> , 2011 , 33, 152-157	5.9	50
44	Composite materials of thermoplastic starch and fibers from the ethanol/water fractionation of bagasse. <i>Industrial Crops and Products</i> , 2011 , 33, 739-746	5.9	48

43	Dynamic formation of SEBS copolymer submicrometric structures. <i>Polymer</i> , 2010 , 51, 4145-4151	3.9	2
42	Adsorption of chitosan on spin-coated cellulose films. <i>Carbohydrate Polymers</i> , 2010 , 80, 65-70	10.3	54
41	Polymeric coatings for photostability enhancement of poly(p-phenylene vinylene) derivative films. <i>Polymer International</i> , 2010 , 59, 637-641	3.3	9
40	Thermally stimulated depolarization current studies of sulfonated polystyrene ionomers. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 947-953	2.6	3
39	Starch: Major Sources, Properties and Applications as Thermoplastic Materials 2008 , 321-342		40
38	Soda-Treated Sisal/Polypropylene Composites. <i>Journal of Polymers and the Environment</i> , 2008 , 16, 35-39	4.5	36
37	Blocked diisocyanates as reactive coupling agents: Application to pine fiber/polypropylene composites. <i>Carbohydrate Polymers</i> , 2008 , 74, 106-113	10.3	48
36	Incorporation of azobenzene chromophore into poly(amide-imide). <i>Journal of Applied Polymer Science</i> , 2007 , 103, 841-847	2.9	5
35	Blocked isocyanates as coupling agents for cellulose-based composites. <i>Carbohydrate Polymers</i> , 2007 , 68, 537-543	10.3	63
34	The effect of glycerol/sugar/water and sugar/water mixtures on the plasticization of thermoplastic cassava starch. <i>Carbohydrate Polymers</i> , 2007 , 69, 619-624	10.3	105
33	Preparation and characterization of thermoplastic starch/zein blends. <i>Materials Research</i> , 2007 , 10, 227-231	3.1	70
32	Mechanical and morphological characterization of starch/zein blends plasticized with glycerol. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 4133-4139	2.9	73
31	Physicochemical properties and sensing ability of metallophthalocyanines/chitosan nanocomposites. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 22690-4	3.4	62
30	Trapping of charge carriers in colloidal particles of self-assembled films from TiO ₂ and poly(vinyl sulfonic acid). <i>Journal of Physical Chemistry B</i> , 2006 , 110, 24612-20	3.4	9
29	Effect of ion concentration of ionomer in electron injection layer of polymer light-emitting devices. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1686-1690	3.9	2
28	Photoinduced birefringence in blends of a polyurethane bearing azobenzene moieties and a poly(amide-imide). <i>Polymer International</i> , 2006 , 55, 1069-1074	3.3	2
27	The effect of plasticizers on thermoplastic starch compositions obtained by melt processing. <i>Carbohydrate Polymers</i> , 2006 , 63, 417-424	10.3	217
26	Self-organization of triblock copolymer patterns obtained by drying and dewetting. <i>European Physical Journal E</i> , 2006 , 20, 309-15	1.5	10

25	Electrical properties of polymer/metal interface in polymer light-emitting devices: electron injection barrier suppression. <i>Journal of Materials Science</i> , 2006 , 41, 2767-2770	4.3	4
24	Preparation and Characterisation of Thermoplastic Starches from Cassava Starch, Cassava Root and Cassava Bagasse. <i>Macromolecular Symposia</i> , 2005 , 229, 266-275	0.8	33
23	Layer-by-Layer Hybrid Films Incorporating WO ₃ , TiO ₂ , and Chitosan. <i>Chemistry of Materials</i> , 2005 , 17, 6739-6745	9.6	44
22	Thermoplastic starch modification during melt processing: Hydrolysis catalyzed by carboxylic acids. <i>Carbohydrate Polymers</i> , 2005 , 62, 387-390	10.3	59
21	Polymer light emitting devices with Langmuir-Blodgett (LB) films: Enhanced performance due to an electron-injecting layer of ionomers. <i>Chemical Physics Letters</i> , 2005 , 408, 31-36	2.5	22
20	Surface chemical modification of thermoplastic starch: reactions with isocyanates, epoxy functions and stearyl chloride. <i>Industrial Crops and Products</i> , 2005 , 21, 331-336	5.9	50
19	Morphological, mechanical and thermal properties of nylon 6/ABS blends using glycidyl methacrylate-methyl methacrylate copolymers. <i>Journal of Materials Science</i> , 2005 , 40, 4239-4246	4.3	9
18	Estudo comparativo de amidos termoplásticos derivados do milho com diferentes teores de amilose. <i>Polimeros</i> , 2005 , 15, 268-273	1.6	28
17	Compatibilizaçã de blendas de poliamida 6/ABS usando os copolímeros acrílicos reativos MMA-GMA e MMA-MA. Parte 2: Comportamento termomecânico e morfológico das blendas. <i>Polimeros</i> , 2004 , 14, 22-30	1.6	6
16	Thermal properties of nylon6/ABS polymer blends: Compatibilizer effect. <i>Journal of Materials Science</i> , 2004 , 39, 1173-1178	4.3	32
15	Characterization of indium-tin-oxide films treated by different procedures: effect of treatment time in aqua regia solution. <i>Materials Science and Engineering C</i> , 2004 , 24, 595-599	8.3	8
14	Synthesis of Poly(styrene-co-methyl methacrylate)-Based Ionomers and Their Langmuir and Langmuir-Blodgett (LB) Film Formation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7033-7039	3.4	10
13	Compatibilizaçã de blendas de poliamida 6/ABS usando os copolímeros acrílicos reativos MMA-GMA e MMA-MA. Parte 1: Comportamento reológico e propriedades mecânicas das blendas. <i>Polimeros</i> , 2003 , 13, 205-211	1.6	11
12	Morphological, mechanical and rheological properties of nylon 6/acrylonitrile-butadiene-styrene blends compatibilized with MMA/MA copolymers. <i>Journal of Materials Science</i> , 2003 , 38, 3515-3520	4.3	35
11	Acrylonitrile-Butadiene-Styrene toughened nylon 6: The influences of compatibilizer on morphology and impact properties. <i>Journal of Applied Polymer Science</i> , 2003 , 87, 842-847	2.9	31
10	Morphology of nylon 6/acrylonitrile-butadiene-styrene blends compatibilized by a methyl methacrylate/maleic anhydride copolymer. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 3512-3518	2.9	5
9	Effect of compatibilizer in acrylonitrile-butadiene-styrene toughened nylon 6 blends: Ductile-Brittle transition temperature. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 2643-2647	2.9	22
8	Size exclusion chromatography characterization of thermoplastic starch composites 1. Influence of plasticizer and fibre content. <i>Polymer Degradation and Stability</i> , 2003 , 79, 133-138	4.7	55

7	Thermoplastic starch/natural rubber blends. <i>Carbohydrate Polymers</i> , 2003 , 53, 95-99	10.3	132
6	Effect of Sulfonation Level on Solubility and Viscosity Behavior of Low to Medium Charged Sulfonated Polystyrenes. <i>Macromolecules</i> , 2003 , 36, 5304-5310	5.5	16
5	Wood pulp reinforced thermoplastic starch composites. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2002 , 51, 647-660	3	56
4	Thermoplastic starchâcellulosic fibers composites: preliminary results. <i>Carbohydrate Polymers</i> , 2001 , 45, 183-188	10.3	365
3	A first insight on composites of thermoplastic starch and kaolin. <i>Carbohydrate Polymers</i> , 2001 , 45, 189-194	10.3	218
2	Caracterizaã de gãs termorreversíveis de SEBS. <i>Polimeros</i> , 2000 , 10, 01-07	1.6	2
1	The influence of chitosan, cellulose and alginate chemical nature on mineral matrix formation. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1-11	3	0