

Mirta I Aranguren

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119
papers

6,254
citations

38
h-index

77
g-index

121
ext. papers

6,739
ext. citations

3.6
avg, IF

5.69
L-index

#	Paper	IF	Citations
119	Review: current international research into cellulose nanofibres and nanocomposites. <i>Journal of Materials Science</i> , 2010 , 45, 1-33	4.3	1760
118	Effect of reinforcing fillers on the rheology of polymer melts. <i>Journal of Rheology</i> , 1992 , 36, 1165-1182	4.1	230
117	Cellulose micro/nanocrystals reinforced polyurethane. <i>Journal of Materials Research</i> , 2006 , 21, 870-881	2.5	193
116	Physico-Mechanical Properties of Biodegradable Starch Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2009 , 294, 169-177	3.9	185
115	Effect of glycerol on the morphology of nanocomposites made from thermoplastic starch and starch nanocrystals. <i>Carbohydrate Polymers</i> , 2011 , 84, 203-210	10.3	165
114	Polyelectrolyte films based on chitosan/olive oil and reinforced with cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2014 , 101, 1018-26	10.3	163
113	A short review on novel biocomposites based on plant oil precursors. <i>European Polymer Journal</i> , 2013 , 49, 1243-1256	5.2	161
112	Characterization of nanocellulose- reinforced shape memory polyurethanes. <i>Polymer International</i> , 2008 , 57, 651-659	3.3	146
111	Crystallization of polydimethylsiloxane: effect of silica filler and curing. <i>Polymer</i> , 1998 , 39, 4897-4903	3.9	125
110	Polyurethane Foams Obtained from Castor Oil-based Polyol and Filled with Wood Flour. <i>Journal of Composite Materials</i> , 2009 , 43, 3057-3072	2.7	120
109	Mechanical characterization of polypropylene-wood flour composites. <i>Journal of Applied Polymer Science</i> , 2003 , 88, 1420-1428	2.9	110
108	Modified woodflour as thermoset fillersPart I. Effect of the chemical modification and percentage of filler on the mechanical properties. <i>Polymer</i> , 2001 , 42, 815-825	3.9	99
107	Modified woodflour as thermoset fillers. <i>Thermochimica Acta</i> , 2001 , 372, 45-57	2.9	96
106	A comparison between the physico-chemical properties of tuber and cereal starches. <i>Food Research International</i> , 2009 , 42, 976-982	7	93
105	Thermal and dynamic mechanical characterization of polypropylene-woodflour composites. <i>Polymer Engineering and Science</i> , 2002 , 42, 733-742	2.3	90
104	Moisture diffusion in polyester-woodflour composites. <i>Polymer</i> , 1999 , 40, 7313-7320	3.9	90
103	Dependence of the mechanical properties of woodflour-polymer composites on the moisture content. <i>Journal of Applied Polymer Science</i> , 1998 , 68, 2069-2076	2.9	89

102	Characterization of chitosan/caseinate films. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 1080-1090	2.9	88
101	Polyurethanes from tung oil: Polymer characterization and composites. <i>Polymer Engineering and Science</i> , 2009 , 49, 685-692	2.3	83
100	Compounding Fumed Silicas into Polydimethylsiloxane: Bound Rubber and Final Aggregate Size. <i>Journal of Colloid and Interface Science</i> , 1997 , 195, 329-37	9.3	76
99	Caseinate films modified with tung oil. <i>Food Hydrocolloids</i> , 2010 , 24, 800-808	10.6	74
98	Rheology of particle suspensions in viscoelastic media. Wood flour-polypropylene melt. <i>Rheologica Acta</i> , 2004 , 43, 293-303	2.3	69
97	Liquid rubber modified vinyl ester resins: fracture and mechanical behavior. <i>Polymer</i> , 2001 , 42, 3723-3730	9.9	64
96	Nanocomposites made from cellulose nanocrystals and tailored segmented polyurethanes. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 1215-1225	2.9	61
95	Mechanical properties of linseed oil monoglyceride maleate/styrene copolymers. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 825-836	2.9	61
94	Analysis of the creep behavior of polypropylene-woodflour composites. <i>Polymer Engineering and Science</i> , 2004 , 44, 1594-1603	2.3	58
93	High-strength composites based on tung oil polyurethane and wood flour: Effect of the filler concentration on the mechanical properties. <i>Polymer Engineering and Science</i> , 2009 , 49, 713-721	2.3	55
92	Effect of the nano-cellulose content on the properties of reinforced polyurethanes. A study using mechanical tests and positron annihilation spectroscopy. <i>Polymer Testing</i> , 2013 , 32, 115-122	4.5	54
91	Castor oil-based polyurethanes containing cellulose nanocrystals. <i>Polymer Engineering and Science</i> , 2011 , 51, 1389-1396	2.3	53
90	Biodegradation of a vegetable oil based polyurethane and wood flour composites. <i>Polymer Testing</i> , 2012 , 31, 7-15	4.5	51
89	Biodegradable materials from grafting of modified PLA onto starch nanocrystals. <i>Polymer Degradation and Stability</i> , 2012 , 97, 2021-2026	4.7	51
88	Water vapor absorption and permeability of films based on chitosan and sodium caseinate. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 2777-2784	2.9	51
87	Polyaniline-modified cellulose nanofibrils as reinforcement of a smart polyurethane. <i>Polymer International</i> , 2011 , 60, 743-750	3.3	49
86	Composites from sawdust and unsaturated polyester. <i>Journal of Applied Polymer Science</i> , 1996 , 61, 119-124	2.9	46
85	Nanocomposites with superparamagnetic behavior based on a vegetable oil and magnetite nanoparticles. <i>European Polymer Journal</i> , 2014 , 53, 90-99	5.2	43

84	Microfoams based on castor oil polyurethanes and vegetable fibers. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 2791-2800	2.9	43
83	Polymeric networks based on tung oil: Reaction and modification with green oil monomers. <i>European Polymer Journal</i> , 2015 , 67, 551-560	5.2	41
82	Mechanical properties of woodflour/linseed oil resin composites. <i>Polymer International</i> , 2005 , 54, 829-833	3.3	39
81	Preparation and characterization of conductive nanostructured particles based on polyaniline and cellulose nanofibers. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 1641-8	8.9	36
80	Rapeseed oil-based polyurethane foams modified with glycerol and cellulose micro/nanocrystals. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	35
79	Kinetic and statistical aspects of the formation of polyurethanes from toluene diisocyanate. <i>Polymer</i> , 1986 , 27, 425-430	3.9	35
78	Recent developments in plant oil based functional materials. <i>Polymer International</i> , 2016 , 65, 28-38	3.3	34
77	Rheological study of the curing kinetics of epoxy/phenol novolac resin. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 4430-4439	2.9	34
76	Shape memory segmented polyurethanes: dependence of behavior on nanocellulose addition and testing conditions. <i>Polymer International</i> , 2012 , 61, 321-327	3.3	32
75	Vegetable oil/styrene thermoset copolymers with shape memory behavior and damping capacity. <i>Polymer International</i> , 2012 , 61, 735-742	3.3	32
74	Rheological and Mechanical Properties of Filled Rubber: Silica-Silicone. <i>Rubber Chemistry and Technology</i> , 1994 , 67, 820-833	1.7	32
73	Synthesis and characterization of a waterborne polyurethane made from castor oil and tartaric acid. <i>European Polymer Journal</i> , 2018 , 102, 151-160	5.2	29
72	Composite films based on shape memory polyurethanes and nanostructured polyaniline or cellulose/polyaniline particles. <i>Synthetic Metals</i> , 2012 , 162, 1654-1664	3.6	28
71	Epoxy-based divinyl ester resin/styrene copolymers: Composition dependence of the mechanical and thermal properties. <i>Journal of Applied Polymer Science</i> , 1997 , 66, 1059-1066	2.9	28
70	Nanocomposites of Waterborne Polyurethane Reinforced with Cellulose Nanocrystals from Sisal Fibres. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 1869-1880	4.5	26
69	Effect of crosslinking on the properties of sodium caseinate films. <i>Journal of Applied Polymer Science</i> , 2010 , 116, 18-26	2.9	26
68	Thermal degradation of a phenolic resin, vegetable fibers, and derived composites. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 2977-2985	2.9	25
67	Ageing of thermosets based on tung oil/styrene/divinylbenzene. <i>Polymer Testing</i> , 2013 , 32, 249-255	4.5	23

66	Influence of fiber volume fraction and aspect ratio in resin matrix composites. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 2714-2722	2.9	23
65	Modulus of polybutadiene networks made by hydrosilation crosslinking. <i>Macromolecules</i> , 1988 , 21, 2484-2491	5.3	23
64	Polyurethane-ductilized epoxy resins. <i>Journal of Applied Polymer Science</i> , 1998 , 68, 1781-1789	2.9	22
63	Curing kinetics of divinyl ester resins with styrene. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 1044-1053	5.3	22
62	Waterborne polyurethane nanocomposites based on vegetable oil and microfibrillated cellulose. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	21
61	EPR spectroscopy applied to the study of the TEMPO mediated oxidation of nanocellulose. <i>Carbohydrate Polymers</i> , 2016 , 136, 744-9	10.3	20
60	Statistics of novolacs. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1984 , 23, 370-374		20
59	Cellulose nanocrystals in aqueous suspensions: rheology of lyotropic chiral liquid crystals. <i>Cellulose</i> , 2019 , 26, 2317-2332	5.5	18
58	Bio-based waterborne polyurethanes reinforced with cellulose nanocrystals as coating films. <i>Progress in Organic Coatings</i> , 2020 , 144, 105649	4.8	17
57	Some aspects of curing novolac with hexamethylenetetramine. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1982 , 20, 311-318		17
56	Linseed Oil-Based Polyurethane Rigid Foams: Synthesis and Characterization. <i>Journal of Renewable Materials</i> , 2015 , 3, 3-13	2.4	16
55	Effect of natural rubber on wood-reinforced tannin composites. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1825-1832	2.9	16
54	Rubber modified vinyl ester resins of different molecular weights. <i>Journal of Materials Science</i> , 2002 , 37, 4117-4126	4.3	16
53	Composites from PMMA modified thermosets and chemically treated woodflour. <i>Polymer Engineering and Science</i> , 2003 , 43, 999-1010	2.3	16
52	FTIR spectroscopy applied to woodflour. <i>Composite Interfaces</i> , 1996 , 4, 119-132	2.3	16
51	Poly(methyl methacrylate)-modified vinyl ester thermosets: Morphology, volume shrinkage, and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 4007-4017	2.9	15
50	Thermal and mechanical properties of woodflour/tannin adhesive composites. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 3074-3082	2.9	15
49	Morphology of rubber-modified vinyl ester resins cured at different temperatures. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 274-283	2.9	15

48	Lignocellulosic materials and unsaturated polyester matrix composites: Interfacial modifications. <i>Composite Interfaces</i> , 2005 , 12, 3-24	2.3	14
47	Physical and mechanical properties of a vegetable oil based nanocomposite. <i>European Polymer Journal</i> , 2018 , 98, 116-124	5.2	14
46	Resin-Bisal and Wood Flour Composites Made from Unsaturated Polyester Thermosets. <i>Composite Interfaces</i> , 2009 , 16, 639-657	2.3	13
45	Thermodynamic, morphological, mechanical and fracture properties of poly(methyl methacrylate)(PMMA) modified divinylester(DVE)/styrene(St) thermosets. <i>Polymer</i> , 2005 , 46, 2306-2319 ^{3,9}	3.9	13
44	Wood Flour [Recycled Polyol Based Polyurethane Lightweight Composites. <i>Journal of Composite Materials</i> , 2009 , 43, 2871-2884	2.7	12
43	Aging study of linseed oil resin/styrene thermosets and their composites with wood flour. <i>Polymer International</i> , 2007 , 56, 875-881	3.3	12
42	Quasibinary and quasiternary styrene, dimethacrylate resin, and CTBN (or VTBN) liquid rubber systems: phase diagrams, interaction parameters and cured materials morphologies. <i>Polymer</i> , 2001 , 42, 6503-6513	3.9	12
41	Plant Oil-Based Waterborne Polyurethanes: A Brief Review. <i>Journal of Renewable Materials</i> , 2020 , 8, 579-601	2.4	12
40	Composite films obtained from a waterborne biopolyurethane. Incorporation of tartaric acid and nanocellulose. <i>Industrial Crops and Products</i> , 2019 , 142, 111879	5.9	12
39	Moisture dependence of the properties of composites made from tung oil based polyurethane and wood flour. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	11
38	Study of nanoreinforced shape memory polymers processed by casting and extrusion. <i>Polymer Composites</i> , 2011 , 32, 455-463	3	11
37	Curing kinetics of epoxy-urethane copolymers. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 1771-1779	2.9	11
36	Epoxy-urethane copolymers: Relation between morphology and properties. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 2544-2552	2.9	11
35	Comparative effects of two different crosslinkers on the properties of vegetable oil-based polyurethanes. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48741	2.9	11
34	Creep behavior of wood flour composites made from linseed oil-based polyester thermosets. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 2626-2633	2.9	10
33	Vegetable Oil Based-Polymers Reinforced with Wood Flour. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 484, 143/[509]-150/[516]	0.5	10
32	Structural properties of vegetable oil thermosets: Effect of crosslinkers, modifiers and oxidative aging. <i>European Polymer Journal</i> , 2020 , 124, 109470	5.2	10
31	Magnetism and structure of nanocomposites made from magnetite and vegetable oil based polymeric matrices. <i>Materials Chemistry and Physics</i> , 2016 , 175, 81-91	4.4	9

30	Chemical and mechanical characterization of two South-American plant fibers for polymer reinforcement: Caranday Palm and Phormium. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 2236-2245	2.9	9
29	PMMA-modified divinylester/styrene resins: Phase diagrams and morphologies. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 4539-4549	2.9	9
28	Toughening of wood particle composites Effects of sisal fibers. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 1982-1987	2.9	9
27	AFM fracture surface study of vinyl ester and unsaturated polyester based thermosets. <i>Journal of Materials Science</i> , 2006 , 41, 6154-6158	4.3	9
26	Composites made from a soybean oil biopolyurethane and cellulose nanocrystals. <i>Polymer Engineering and Science</i> , 2018 , 58, 125-132	2.3	8
25	Reactivity ratios and copolymer composition evolution during styrene/dimethacrylate free-radical crosslinking copolymerization. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 3081-3091	2.9	8
24	Maleic anhydride grafting of polypropylene: peroxide and solvent effects. <i>Plastics, Rubber and Composites</i> , 2006 , 35, 117-123	1.5	8
23	Composites Made from Lignocellulosics and Thermoset Polymers. <i>Molecular Crystals and Liquid Crystals</i> , 2000 , 353, 95-108		7
22	Statistical aspects for the production of novolacs. <i>Polymer</i> , 1982 , 23, 263-266	3.9	7
21	Nanocellulose reinforced polyurethane obtained from hydroxylated soybean oil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 111, 012011	0.4	7
20	Natural Composites: Polymeric Matrices Based on Vegetable Resources. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 448, 145/[747]-159/[761]	0.5	6
19	Cellulose nanocrystals suspensions: Liquid crystal anisotropy, rheology and films iridescence. <i>Carbohydrate Polymers</i> , 2021 , 261, 117848	10.3	6
18	Moisture absorption effects on the thermal and mechanical properties of wood flour/linseed oil resin composites. <i>Polymer International</i> , 2007 , 56, 779-786	3.3	5
17	Interfacial Interactions in Silica Reinforced Silicones. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 170, 303		5
16	Magnetic Remote Activation of Shape Recovery in Nanocomposites Based on Tung Oil and Styrene. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800311	1.6	5
15	Free-radical polymerization induced macrophase separation in poly(methyl methacrylate)/dimethacrylate blends: Experiment and modeling. <i>European Polymer Journal</i> , 2013 , 49, 3956-3965	5.2	4
14	Nanocelluloses Reinforced Bio-Waterborne Polyurethane. <i>Polymers</i> , 2021 , 13, 2853	4.5	4
13	Polyurethane Composites Synthesized Using Natural Oil-Based Polyols and Sisal Fibers. <i>Journal of Renewable Materials</i> , 2018 , 6, 426-437	2.4	4

12	Analysis of a styrene-divinylester copolymerization: reaction heats, double bond conversions and average sequence lengths. <i>Polymer</i> , 2000 , 41, 3317-3329	3.9	3
11	Synthesis and Characterization of Polyurethane Rigid Foams from Soybean Oil-Based Polyol and Glycerol. <i>Journal of Renewable Materials</i> , 2016 , 4, 275-284	2.4	3
10	Effect of the composition and chemical aging in tung oil-styrene networks: Free volume and dynamic-mechanical properties. <i>European Polymer Journal</i> , 2017 , 87, 231-240	5.2	2
9	Responsive Nanocellulose Composites. <i>Materials and Energy</i> , 2014 , 181-199		2
8	Smart and structural thermosets from the cationic copolymerization of a vegetable oil. <i>Journal of Applied Polymer Science</i> , 2011 , 124, n/a-n/a	2.9	2
7	Natural Fiber-Polypropylene Composites Made from Caranday Palm. <i>Journal of Renewable Materials</i> , 2016 , 4, 101-112	2.4	2
6	Spectroscopy Studies of Cellulose Nanofiber- and Cellulose Nanocrystal-Based Nanocomposites 2017 , 581-608		1
5	Spectroscopic Characterization of Renewable Nanoparticles and Their Composites 2013 , 509-540		1
4	Curing of epoxy-urethane copolymers in a heated mold: Effect of the curing conditions on the phase-separation process. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 889-900	2.9	1
3	Solid "Green" Polyurethanes Based on Rapeseed Oil Polyol and Modified with Glycerol and Microcellulose. <i>Journal of Renewable Materials</i> , 2016 , 4, 266-274	2.4	1
2	Nanocomposites Based on Waterborne Polyurethane Matrix and Fe ₃ O ₄ Nanoparticles: Synthesis and Characterization. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100381	3.5	0
1	Selected Topics on Polypropylene/Wood Flour Composites: Thermal, Mechanical, and Time-Dependent Response 150-177		