

Ana Barros-Timmons

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117
papers

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h-index

56
g-index

122
ext. papers

4,078
ext. citations

4.5
avg, IF

5.59
L-index

#	Paper	IF	Citations
117	Graphene oxide modified with PMMA via ATRP as a reinforcement filler. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9927		381
116	Polyurethane Foams: Past, Present, and Future. <i>Materials</i> , 2018 , 11,	3.5	218
115	Plasma surface modification of polyethylene. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003 , 222, 125-131	5.1	156
114	Production and characterization of a bioemulsifier from <i>Yarrowia lipolytica</i> . <i>Process Biochemistry</i> , 2006 , 41, 1894-1898	4.8	125
113	Phase change materials and carbon nanostructures for thermal energy storage: A literature review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 79, 1212-1228	16.2	119
112	Surface properties of polyethylene after low-temperature plasma treatment. <i>Colloid and Polymer Science</i> , 2003 , 281, 1025-1033	2.4	115
111	Bio-based polyurethane foams toward applications beyond thermal insulation. <i>Materials & Design</i> , 2015 , 76, 77-85		94
110	Polymer grafting from CdS quantum dots via AGET ATRP in miniemulsion. <i>Small</i> , 2007 , 3, 1230-6	11	91
109	Interactions of bioactive molecules & nanomaterials with Langmuir monolayers as cell membrane models. <i>Thin Solid Films</i> , 2015 , 593, 158-188	2.2	87
108	Processing and characterization of polyurethane nanocomposite foam reinforced with montmorillonite-carbon nanotube hybrids. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 44, 1-7	8.4	87
107	Novel SiO ₂ /cellulose nanocomposites obtained by in situ synthesis and via polyelectrolytes assembly. <i>Composites Science and Technology</i> , 2008 , 68, 1088-1093	8.6	86
106	Nanostructured composites obtained by ATRP sleeving of bacterial cellulose nanofibers with acrylate polymers. <i>Biomacromolecules</i> , 2013 , 14, 2063-73	6.9	67
105	Nanostructured bacterial cellulose-poly(4-styrene sulfonic acid) composite membranes with high storage modulus and protonic conductivity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7864-75	9.5	65
104	Surface modification of alumina nanoparticles with silane coupling agents. <i>Journal of the Brazilian Chemical Society</i> , 2010 , 21, 2238-2245	1.5	63
103	Oxypropylation of cork and the use of the ensuing polyols in polyurethane formulations. <i>Biomacromolecules</i> , 2002 , 3, 57-62	6.9	57
102	Synthetic hollow zinc oxide microparticles. <i>Materials Research Bulletin</i> , 2001 , 36, 1099-1108	5.1	54
101	Dielectric properties of polystyrene-CTO composite. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5321-5322	3.2	52

100	Sound absorption properties of polyurethane foams derived from crude glycerol and liquefied coffee grounds polyol. <i>Polymer Testing</i> , 2017 , 62, 13-22	4.5	50
99	Probing the interaction of oppositely charged gold nanoparticles with DPPG and DPPC Langmuir monolayers as cell membrane models. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 108, 120-6	6	50
98	Nanocompósitos de matriz polimérica: estratégias de síntese de materiais híbridos. <i>Química Nova</i> , 2004 , 27, 798-806	1.6	50
97	Antimicrobial bacterial cellulose nanocomposites prepared by in situ polymerization of 2-aminoethyl methacrylate. <i>Carbohydrate Polymers</i> , 2015 , 123, 443-53	10.3	49
96	Ecopolyol Production from Industrial Cork Powder via Acid Liquefaction Using Polyhydric Alcohols. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 846-854	8.3	44
95	Biofunctionalisation of colloidal gold nanoparticles via polyelectrolytes assemblies. <i>Colloid and Polymer Science</i> , 2014 , 292, 33-50	2.4	44
94	Cell surface characterization of <i>Yarrowia lipolytica</i> IMUFRJ 50682. <i>Yeast</i> , 2006 , 23, 867-77	3.4	41
93	Enhancement of physical and reaction to fire properties of crude glycerol polyurethane foams filled with expanded graphite. <i>Polymer Testing</i> , 2018 , 69, 199-207	4.5	40
92	Electrostatic interactions are not sufficient to account for chitosan bioactivity. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 246-51	9.5	39
91	3D printed cork/polyurethane composite foams. <i>Materials and Design</i> , 2019 , 179, 107905	8.1	36
90	Rigid polyurethane foams derived from cork liquefied at atmospheric pressure. <i>Polymer International</i> , 2015 , 64, 250-257	3.3	35
89	Insights into the physical properties of biobased polyurethane/expanded graphite composite foams. <i>Composites Science and Technology</i> , 2017 , 138, 24-31	8.6	32
88	Biocompatible bacterial cellulose-poly(2-hydroxyethyl methacrylate) nanocomposite films. <i>BioMed Research International</i> , 2013 , 2013, 698141	3	32
87	Cure and performance of castor oil polyurethane adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2019 , 95, 102413	3.4	31
86	Polymer encapsulation of CdE (E = S, se) quantum dot ensembles via in-situ radical polymerization in miniemulsion. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 766-71	1.3	31
85	N-Vinylformamide as a route to amine-containing latexes and microgels. <i>Colloid and Polymer Science</i> , 2004 , 282, 256-263	2.4	30
84	The oxypropylation of cork residues: preliminary results. <i>Bioresource Technology</i> , 2000 , 73, 187-189	11	30
83	Preparation and optical properties of CdSe/polymer nanocomposites. <i>Scripta Materialia</i> , 2000 , 43, 567-571	3.6	29

82	Evaluating the hazardous impact of ionic liquids - Challenges and opportunities. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125215	12.8	29
81	Spent coffee grounds as a renewable source for ecopolyols production. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1480-1488	3.5	28
80	Thermal Energy Storage and Mechanical Performance of Crude Glycerol Polyurethane Composite Foams Containing Phase Change Materials and Expandable Graphite. <i>Materials</i> , 2018 , 11,	3.5	27
79	Recycling of polyurethane scraps via acidolysis. <i>Chemical Engineering Journal</i> , 2020 , 395, 125102	14.7	25
78	Selection and Optimization of Culture Medium for Exopolysaccharide Production by <i>Coriolus (Trametes) Versicolor</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2005 , 21, 1499-1507	4.4	25
77	Langmuir monolayers of lignins obtained with different isolation methods. <i>Thin Solid Films</i> , 1999 , 354, 215-221	2.2	25
76	Preparation of nanocomposites by reversible addition-fragmentation chain transfer polymerization from the surface of quantum dots in miniemulsion. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 5367-5377	2.5	23
75	Polymer encapsulation effects on the magnetism of EuS nanocrystals. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4572		23
74	A green-emitting CdSe/poly(butyl acrylate) nanocomposite. <i>Nanotechnology</i> , 2005 , 16, 1969-1973	3.4	23
73	Surface Pressure and Surface Potential Isotherms of Ytterbium Bisphthalocyanine Langmuir Monolayers. <i>Langmuir</i> , 1999 , 15, 3944-3949	4	23
72	Studies on PLA grafting onto graphene oxide and its effect on the ensuing composite films. <i>Materials Chemistry and Physics</i> , 2015 , 166, 122-132	4.4	21
71	Statistical evaluation of the effect of formulation on the properties of crude glycerol polyurethane foams. <i>Polymer Testing</i> , 2016 , 56, 200-206	4.5	21
70	Functionalization of carbon nanofibers (CNFs) through atom transfer radical polymerization for the preparation of poly(tert-butyl acrylate)/CNF materials: Spectroscopic, thermal, morphological, and physical characterizations. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 3326-3335	2.5	20
69	Crystallization behaviour of new poly(tetramethyleneterephthalamide) nanocomposites containing SiO ₂ fillers with distinct morphologies. <i>Composites Part B: Engineering</i> , 2005 , 36, 51-59	10	20
68	Preparation and characterization of organosilicon thin films for selective adhesion of <i>Yarrowia lipolytica</i> yeast cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 82, 360-366	3.5	19
67	Understanding the interactions of imidazolium-based ionic liquids with cell membrane models. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29764-29777	3.6	19
66	Polymer@gold Nanoparticles Prepared via RAFT Polymerization for Opto-Biodetection. <i>Polymers</i> , 2018 , 10,	4.5	18
65	Effect of unrefined crude glycerol composition on the properties of polyurethane foams. <i>Journal of Cellular Plastics</i> , 2018 , 54, 633-649	1.5	17

64	Deposition of <i>Yarrowia lipolytica</i> on plasma prepared teflonlike thin films. <i>Surface Engineering</i> , 2008 , 24, 23-27	2.6	16
63	Development of polyurethane foam incorporating phase change material for thermal energy storage. <i>Journal of Energy Storage</i> , 2020 , 28, 101177	7.8	16
62	Utilization and characterization of amino resins for the production of wood-based panels with emphasis on particleboards (PB) and medium density fibreboards (MDF). A review. <i>Holzforschung</i> , 2018 , 72, 653-671	2	15
61	Langmuir-Blodgett manipulation of capped cadmium sulfide quantum dots. <i>Thin Solid Films</i> , 2001 , 389, 272-277	2.2	15
60	Investigation of the Adsorption of Amphipathic macroRAFT Agents onto Montmorillonite Clay. <i>Langmuir</i> , 2017 , 33, 9598-9608	4	14
59	3D Printed Thermoplastic Polyurethane Filled with Polyurethane Foams Residues. <i>Journal of Polymers and the Environment</i> , 2020 , 28, 1560-1570	4.5	13
58	Weak-gel formation in dispersions of silica particles in a matrix of a non-ionic polysaccharide: Structure and rheological characterization. <i>Carbohydrate Polymers</i> , 2010 , 82, 1219-1227	10.3	13
57	Hopping conduction on PPy/SiO ₂ nanocomposites obtained via in situ emulsion polymerization. <i>Journal of Materials Science</i> , 2008 , 43, 3333-3337	4.3	12
56	Interaction of Cationic, Anionic, and Nonionic MacroRAFT Homo- and Copolymers with Laponite Clay. <i>Langmuir</i> , 2019 , 35, 11512-11523	4	11
55	A Comparative Study of Chemical Routes for Coating Gold Nanoparticles via Controlled RAFT Emulsion Polymerization. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600202	3.1	11
54	Preparation and characterization of chitosan/SiO ₂ composite films. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2816-25	1.3	11
53	Luminescent SiO ₂ -coated Gd ₂ O ₃ :Eu ³⁺ nanorods/poly(styrene) nanocomposites by in situ polymerization. <i>Optical Materials</i> , 2010 , 32, 1622-1628	3.3	11
52	Attachment/detachment of <i>Saccharomyces cerevisiae</i> on plasma deposited organosilicon thin films. <i>European Physical Journal D</i> , 2006 , 56, B1256-B1262		11
51	Effect of colloidal silver and gold nanoparticles on the thermal behavior of poly(t-butyl acrylate) composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 231-236	5.1	10
50	ZnO nanostructures for photovoltaic cells. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1633-1636	1.3	10
49	Surface treatment of eucalyptus wood for improved HDPE composites properties. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48619	2.9	10
48	Piezoelectric poly(lactide) stereocomplexes with a cholinium organic ionic plastic crystal. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12134-12142	7.1	9
47	Adsorption study of a macro-RAFT agent onto SiO ₂ -coated Gd ₂ O ₃ :Eu ³⁺ nanorods: Requirements and limitations. <i>Applied Surface Science</i> , 2017 , 394, 519-527	6.7	9

46	Recycling of polyurethane by acidolysis: The effect of reaction conditions on the properties of the recovered polyol. <i>Polymer</i> , 2021 , 219, 123561	3.9	9
45	Biotinylation of optically responsive gold/polyelectrolyte nanostructures. <i>Gold Bulletin</i> , 2015 , 48, 3-11	1.6	7
44	Highly flexible glycol-urea-formaldehyde resins. <i>European Polymer Journal</i> , 2018 , 105, 167-176	5.2	7
43	Development of structural layers PVC incorporating phase change materials for thermal energy storage. <i>Applied Thermal Engineering</i> , 2020 , 179, 115707	5.8	7
42	Grafting Poly(Methyl Methacrylate) (PMMA) from Cork via Atom Transfer Radical Polymerization (ATRP) towards Higher Quality of Three-Dimensional (3D) Printed PMMA/Cork-PMMA Materials. <i>Polymers</i> , 2020 , 12,	4.5	7
41	Recycling of polyurethane wastes using different carboxylic acids via acidolysis to produce wood adhesives. <i>Journal of Polymer Science</i> , 2021 , 59, 697-705	2.4	7
40	Experimental and numerical analysis of the thermal performance of polyurethane foams panels incorporating phase change material. <i>Energy</i> , 2021 , 216, 119213	7.9	7
39	Statistical evaluation of the effect of urea-formaldehyde resins synthesis parameters on particleboard properties. <i>Polymer Testing</i> , 2018 , 68, 193-200	4.5	6
38	Blocked melamine-urea-formaldehyde resins and their usage in agglomerated cork panels. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46663	2.9	6
37	Insights into the photoluminescence properties of gel-like carbon quantum dots embedded in poly(methyl methacrylate) polymer. <i>Materials Today Communications</i> , 2019 , 18, 32-38	2.5	6
36	Partial replacement of melamine by benzoguanamine in MUF resins towards improved flexibility of agglomerated cork panels. <i>International Journal of Adhesion and Adhesives</i> , 2018 , 87, 142-150	3.4	6
35	3D scaffolds from vertically aligned carbon nanotubes/poly(methyl methacrylate) composites via atom transfer radical polymerization. <i>Materials Chemistry and Physics</i> , 2015 , 149-150, 378-384	4.4	5
34	Laccase-catalyzed oxidative modification of liginosulfonates from acidic sulfite pulping of eucalyptus wood. <i>Holzforchung</i> , 2020 , 74, 589-596	2	5
33	Effect of filler functionalization on thermo-mechanical properties of polyamide-12/carbon nanofibers composites: a study of filler-matrix molecular interactions. <i>Journal of Materials Science</i> , 2013 , 48, 8427-8437	4.3	5
32	Preparation and Characterization of Hybrid Organic/Inorganic Nanocomposites by In Situ Miniemulsion Polymerization. <i>Materials Science Forum</i> , 2006 , 514-516, 1201-1205	0.4	5
31	Optical properties of the synthetic nanocomposites SiO ₂ /CdS/poly(styrene-co-maleic anhydride) and SiO ₂ /CdS/poly(styrene-co-maleimide). <i>Journal of Nanoscience and Nanotechnology</i> , 2002 , 2, 177-81	1.3	5
30	Effect of different catalysts on the oxyalkylation of eucalyptus Lignoboost kraft lignin. <i>Holzforchung</i> , 2020 , 74, 567-576	2	5
29	Impact of the Synthesis Procedure on Urea-Formaldehyde Resins Prepared by Alkaline Acid Process. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5665-5676	3.9	4

28	Langmuir and Langmuir-Blodgett films of derivatives of olefin-maleic anhydride alternating copolymers prepared from olefins containing hydrophilic groups. <i>Polymer</i> , 1995 , 36, 1707-1714	3.9	4
27	Synthesis of SiO ₂ -coated Bi ₂ S ₃ /poly(styrene) nanocomposites by in-situ polymerization. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 414-20	1.3	4
26	Recycling of different types of polyurethane foam wastes via acidolysis to produce polyurethane coatings. <i>Sustainable Materials and Technologies</i> , 2021 , 29, e00330	5.3	4
25	Impact of alkaline-acid and strongly acid process on the synthesis of urea-formaldehyde resins and derived composites: a comparison study. <i>European Journal of Wood and Wood Products</i> , 2019 , 77, 1177-1187	2.1	3
24	Study of the synthesis parameters of a urea-formaldehyde resin synthesized according to alkaline-acid process. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 102, 102646	3.4	3
23	Size and shape-tuned overgrowth on Au nanorods regulated by polyallylamine. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 3373-5	1.3	3
22	Langmuir films from semi-amphiphilic sequence-controlled heterocyclic copolymers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 198-200, 313-321	5.1	3
21	Introducing flexibility in urea-formaldehyde resins: Copolymerization with polyetheramines. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 1834-1843	2.5	3
20	Polyamide 6/modified pine bark particle composites for additive manufacturing. <i>Journal of Materials Science</i> , 1	4.3	3
19	Impact of critical micelle concentration of macroRAFT agents on the encapsulation of colloidal Au nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2019 , 545, 251-258	9.3	2
18	Effects of resin content on mechanical properties of cork-based panels bound with melamine-urea-formaldehyde and polyurethane binders. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 101, 102632	3.4	2
17	Adhesion and Immobilization onto Residual Plastics. <i>Polymers</i> , 2020 , 12,	4.5	2
16	Enzymatic synthesis of poly(glycerol sebacate) pre-polymer with crude glycerol, by-product from biodiesel production 2018 ,		2
15	Langmuir monolayers of fractions of cork suberin extract. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 79, 516-20	6	2
14	Synthesis of Lignosulfonate-Based Dispersants for Application in Concrete Formulations. <i>Materials</i> , 2021 , 14,	3.5	2
13	Biofunctional Polymer Coated Au Nanoparticles Prepared via RAFT-Assisted Encapsulating Emulsion Polymerization and Click Chemistry. <i>Polymers</i> , 2020 , 12,	4.5	2
12	PU/Lignocellulosic Composites Produced from Recycled Raw Materials. <i>Journal of Polymers and the Environment</i> , 1	4.5	2
11	PU composites based on different types of textile fibers. <i>Journal of Composite Materials</i> , 002199832110316	10.3	2

10	Insights into PU/EVA Blends Produced Using Industrial Residues Towards Eco-efficient Materials. <i>Journal of Polymers and the Environment</i> ,1	4.5	2
9	Poly(l-lactic acid)/lithium ferrite composites: Electrical properties. <i>Polymer</i> , 2021 , 230, 124100	3.9	2
8	Langmuir films from tailor-made semi-amphiphilic alternating (AB) heterocyclic copolymers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 198-200, 331-338	5.1	1
7	Studies on the release of polymeric LangmuirBlodgett multilayers from the solid supports on which they were prepared. <i>Polymer</i> , 2002 , 43, 3519-3525	3.9	1
6	Lignosulfonate-Based Polyurethane Adhesives. <i>Materials</i> , 2021 , 14,	3.5	1
5	Improvement of viscoelastic, elastic and plastic properties of Poly(L-lactide)/Graphene Oxide-Graft-Poly(L-lactide) nanocomposites by modulation of grafted chain length. <i>Composites Science and Technology</i> , 2020 , 199, 108350	8.6	1
4	Lignosulfonate-Based Conducting Flexible Polymeric Membranes for Liquid Sensing Applications. <i>Materials</i> , 2021 , 14,	3.5	1
3	Enhanced compatibility between coconut fibers/PP via chemical modification for 3D printing. <i>Progress in Additive Manufacturing</i> ,1	5	0
2	Ionic LiquidPoly(lactic acid) Blends as Green Polymer Electrolyte Membranes. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 551-562	3.8	0
1	Organic -Inorganic Nanocomposites Derived from Polysaccharides: Challenges and Opportunities409-432		