

# Ana Barros-Timmons

## List of Publications by Year in descending order

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119  
papers

4,655  
citations

109264

35  
h-index

110317

64  
g-index

123  
all docs

123  
docs citations

123  
times ranked

5888  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyurethane Foams: Past, Present, and Future. <i>Materials</i> , 2018, 11, 1841.	1.3	463
2	Graphene oxide modified with PMMA via ATRP as a reinforcement filler. <i>Journal of Materials Chemistry</i> , 2010, 20, 9927.	6.7	423
3	Plasma surface modification of polyethylene. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 222, 125-131.	2.3	172
4	Phase change materials and carbon nanostructures for thermal energy storage: A literature review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 1212-1228.	8.2	161
5	Production and characterization of a bioemulsifier from <i>Yarrowia lipolytica</i> . <i>Process Biochemistry</i> , 2006, 41, 1894-1898.	1.8	156
6	Surface properties of polyethylene after low-temperature plasma treatment. <i>Colloid and Polymer Science</i> , 2003, 281, 1025-1033.	1.0	124
7	Bio-based polyurethane foams toward applications beyond thermal insulation. <i>Materials &amp; Design</i> , 2015, 76, 77-85.	5.1	120
8	Interactions of bioactive molecules & nanomaterials with Langmuir monolayers as cell membrane models. <i>Thin Solid Films</i> , 2015, 593, 158-188.	0.8	114
9	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.	3.8	105
10	Polymer Grafting from CdS Quantum Dots via AGET ATRP in Miniemulsion. <i>Small</i> , 2007, 3, 1230-1236.	5.2	100
11	Novel SiO <sub>2</sub> /cellulose nanocomposites obtained by in situ synthesis and via polyelectrolytes assembly. <i>Composites Science and Technology</i> , 2008, 68, 1088-1093.	3.8	97
12	Evaluating the hazardous impact of ionic liquids – Challenges and opportunities. <i>Journal of Hazardous Materials</i> , 2021, 412, 125215.	6.5	82
13	Nanostructured Bacterial Cellulose-Poly(4-styrene sulfonic acid) Composite Membranes with High Storage Modulus and Protonic Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 7864-7875.	4.0	81
14	Nanostructured Composites Obtained by ATRP Sleeving of Bacterial Cellulose Nanofibers with Acrylate Polymers. <i>Biomacromolecules</i> , 2013, 14, 2063-2073.	2.6	73
15	Surface modification of alumina nanoparticles with silane coupling agents. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 2238-2245.	0.6	69
16	Recycling of polyurethane scraps via acidolysis. <i>Chemical Engineering Journal</i> , 2020, 395, 125102.	6.6	67
17	Sound absorption properties of polyurethane foams derived from crude glycerol and liquefied coffee grounds polyol. <i>Polymer Testing</i> , 2017, 62, 13-22.	2.3	64
18	Oxypropylation of Cork and the Use of the Ensuing Polyols in Polyurethane Formulations. <i>Biomacromolecules</i> , 2002, 3, 57-62.	2.6	63

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19	Synthetic hollow zinc oxide microparticles. <i>Materials Research Bulletin</i> , 2001, 36, 1099-1108.	2.7	60
20	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, 120-126.	2.5	60
21	Dielectric properties of polystyrene/CCTO composite. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5321-5322.	1.5	59
22	Ecopolyol Production from Industrial Cork Powder via Acid Liquefaction Using Polyhydric Alcohols. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 846-854.	3.2	58
23	Nanocompósitos de matriz polimérica: estratégias de síntese de materiais híbridos. <i>Quimica Nova</i> , 2004, 27, 798-806.	0.3	55
24	Antimicrobial bacterial cellulose nanocomposites prepared by in situ polymerization of 2-aminoethyl methacrylate. <i>Carbohydrate Polymers</i> , 2015, 123, 443-453.	5.1	55
25	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.	2.3	55
26	3D printed cork/polyurethane composite foams. <i>Materials and Design</i> , 2019, 179, 107905.	3.3	55
27	Cure and performance of castor oil polyurethane adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2019, 95, 102413.	1.4	53
28	Biofunctionalisation of colloidal gold nanoparticles via polyelectrolytes assemblies. <i>Colloid and Polymer Science</i> , 2014, 292, 33-50.	1.0	52
29	Cell surface characterization of <i>Yarrowia lipolytica</i> IMUFRI 50682. <i>Yeast</i> , 2006, 23, 867-877.	0.8	49
30	Insights into the physical properties of biobased polyurethane/expanded graphite composite foams. <i>Composites Science and Technology</i> , 2017, 138, 24-31.	3.8	49
31	Electrostatic Interactions Are Not Sufficient to Account for Chitosan Bioactivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 246-251.	4.0	43
32	Rigid polyurethane foams derived from cork liquefied at atmospheric pressure. <i>Polymer International</i> , 2015, 64, 250-257.	1.6	39
33	Polymer Encapsulation of CdE (E = S, Se) Quantum Dot Ensembles via <i>In-Situ</i> Radical Polymerization in Miniemulsion. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 766-771.	0.9	38
34	Biocompatible Bacterial Cellulose-Poly(2-hydroxyethyl methacrylate) Nanocomposite Films. <i>BioMed Research International</i> , 2013, 2013, 1-14.	0.9	38
35	Spent coffee grounds as a renewable source for ecopolyols production. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1480-1488.	1.6	38
36	The oxypropylation of cork residues: preliminary results. <i>Bioresource Technology</i> , 2000, 73, 187-189.	4.8	34

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37	Preparation and optical properties of CdSe/polymer nanocomposites. <i>Scripta Materialia</i> , 2000, 43, 567-571.	2.6	34
38	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.	1.7	34
39	Thermal Energy Storage and Mechanical Performance of Crude Glycerol Polyurethane Composite Foams Containing Phase Change Materials and Expandable Graphite. <i>Materials</i> , 2018, 11, 1896.	1.3	32
40	N-Vinylformamide as a route to amine-containing latexes and microgels. <i>Colloid and Polymer Science</i> , 2004, 282, 256-263.	1.0	31
41	Statistical evaluation of the effect of formulation on the properties of crude glycerol polyurethane foams. <i>Polymer Testing</i> , 2016, 56, 200-206.	2.3	30
42	Polymer encapsulation effects on the magnetism of EuS nanocrystals. <i>Journal of Materials Chemistry</i> , 2008, 18, 4572.	6.7	29
43	3D Printed Thermoplastic Polyurethane Filled with Polyurethane Foams Residues. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1560-1570.	2.4	28
44	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.	2.0	27
45	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.	0.9	27
46	Understanding the interactions of imidazolium-based ionic liquids with cell membrane models. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29764-29777.	1.3	27
47	Recycling of polyurethane by acidolysis: The effect of reaction conditions on the properties of the recovered polyol. <i>Polymer</i> , 2021, 219, 123561.	1.8	27
48	Langmuir monolayers of lignins obtained with different isolation methods. <i>Thin Solid Films</i> , 1999, 354, 215-221.	0.8	26
49	Recycling of polyurethane wastes using different carboxylic acids via acidolysis to produce wood adhesives. <i>Journal of Polymer Science</i> , 2021, 59, 697-705.	2.0	26
50	Crystallization behaviour of new poly(tetramethyleneterephthalamide) nanocomposites containing SiO <sub>2</sub> fillers with distinct morphologies. <i>Composites Part B: Engineering</i> , 2005, 36, 51-59.	5.9	25
51	A green-emitting CdSe/poly(butyl acrylate) nanocomposite. <i>Nanotechnology</i> , 2005, 16, 1969-1973.	1.3	25
52	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	25
53	Polymer@gold Nanoparticles Prepared via RAFT Polymerization for Opto-Biodetection. <i>Polymers</i> , 2018, 10, 189.	2.0	25
54	Surface Pressure and Surface Potential Isotherms of Ytterbium Bisphthalocyanine Langmuir Monolayers. <i>Langmuir</i> , 1999, 15, 3944-3949.	1.6	23

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55	Development of polyurethane foam incorporating phase change material for thermal energy storage. <i>Journal of Energy Storage</i> , 2020, 28, 101177.	3.9	23
56	Effect of unrefined crude glycerol composition on the properties of polyurethane foams. <i>Journal of Cellular Plastics</i> , 2018, 54, 633-649.	1.2	22
57	Experimental and numerical analysis of the thermal performance of polyurethane foams panels incorporating phase change material. <i>Energy</i> , 2021, 216, 119213.	4.5	22
58	Recycling of different types of polyurethane foam wastes via acidolysis to produce polyurethane coatings. <i>Sustainable Materials and Technologies</i> , 2021, 29, e00330.	1.7	22
59	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.	1.6	21
60	Functionalization of carbon nanofibers (CNFs) through atom transfer radical polymerization for the preparation of poly( <i>tert</i> -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
61	Interaction of Cationic, Anionic, and Nonionic MacroRAFT Homo- and Copolymers with Laponite Clay. <i>Langmuir</i> , 2019, 35, 11512-11523.	1.6	18
62	Langmuir-Blodgett manipulation of capped cadmium sulfide quantum dots. <i>Thin Solid Films</i> , 2001, 389, 272-277.	0.8	17
63	Deposition of <i>Yarrowia lipolytica</i> on plasma prepared teflonlike thin films. <i>Surface Engineering</i> , 2008, 24, 23-27.	1.1	17
64	Investigation of the Adsorption of Amphiphatic macroRAFT Agents onto Montmorillonite Clay. <i>Langmuir</i> , 2017, 33, 9598-9608.	1.6	17
65	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.	5.1	16
66	Preparation and Characterization of Chitosan/SiO <sub>2</sub> Composite Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2816-2825.	0.9	16
67	Grafting Poly(Methyl Methacrylate) (PMMA) from Cork via Atom Transfer Radical Polymerization (ATRP) towards Higher Quality of Three-Dimensional (3D) Printed PMMA/Cork-g-PMMA Materials. <i>Polymers</i> , 2020, 12, 1867.	2.0	15
68	Hopping conduction on PPy/SiO <sub>2</sub> nanocomposites obtained via in situ emulsion polymerization. <i>Journal of Materials Science</i> , 2008, 43, 3333-3337.	1.7	14
69	Surface treatment of eucalyptus wood for improved HDPE composites properties. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48619.	1.3	14
70	Luminescent SiO <sub>2</sub> -coated Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanorods/poly(styrene) nanocomposites by in situ polymerization. <i>Optical Materials</i> , 2010, 32, 1622-1628.	1.7	13
71	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.	1.2	13
72	Attachment/detachment of <i>Saccharomyces cerevisiae</i> on plasma deposited organosilicon thin films. <i>European Physical Journal D</i> , 2006, 56, B1256-B1262.	0.4	12

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73	ZnO nanostructures for photovoltaic cells. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1633-1636.	0.7	12
74	Adsorption study of a macro-RAFT agent onto SiO <sub>2</sub> -coated Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanorods: Requirements and limitations. <i>Applied Surface Science</i> , 2017, 394, 519-527.	3.1	12
75	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.	2.3	11
76	Piezoelectric poly(lactide) stereocomplexes with a cholinium organic ionic plastic crystal. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12134-12142.	2.7	11
77	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.	0.9	11
78	Development of structural layers PVC incorporating phase change materials for thermal energy storage. <i>Applied Thermal Engineering</i> , 2020, 179, 115707.	3.0	11
79	Effect of different catalysts on the oxyalkylation of eucalyptus Lignoboost® kraft lignin. <i>Holzforschung</i> , 2020, 74, 567-576.	0.9	11
80	Synthesis of Lignosulfonate-Based Dispersants for Application in Concrete Formulations. <i>Materials</i> , 2021, 14, 7388.	1.3	11
81	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.	1.4	10
82	Highly flexible glycol-urea-formaldehyde resins. <i>European Polymer Journal</i> , 2018, 105, 167-176.	2.6	10
83	Chemically modified bamboo fiber/ABS composites for high-quality additive manufacturing. <i>Polymer Journal</i> , 2021, 53, 1459-1467.	1.3	10
84	Statistical evaluation of the effect of urea-formaldehyde resins synthesis parameters on particleboard properties. <i>Polymer Testing</i> , 2018, 68, 193-200.	2.3	9
85	Lignosulfonate-Based Polyurethane Adhesives. <i>Materials</i> , 2021, 14, 7072.	1.3	9
86	Biotinylation of optically responsive gold/polyelectrolyte nanostructures. <i>Gold Bulletin</i> , 2015, 48, 3-11.	1.1	8
87	Blocked melamine-urea-formaldehyde resins and their usage in agglomerated cork panels. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46663.	1.3	8
88	<i>Yarrowia lipolytica</i> Adhesion and Immobilization onto Residual Plastics. <i>Polymers</i> , 2020, 12, 649.	2.0	8
89	Laccase-catalyzed oxidative modification of lignosulfonates from acidic sulfite pulping of eucalyptus wood. <i>Holzforschung</i> , 2020, 74, 589-596.	0.9	8
90	PU/Lignocellulosic Composites Produced from Recycled Raw Materials. <i>Journal of Polymers and the Environment</i> , 0, 1.	2.4	8

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91	Impact of the Synthesis Procedure on Urea-Formaldehyde Resins Prepared by Alkaline Acid Process. Industrial & Engineering Chemistry Research, 2019, 58, 5665-5676.	1.8	7
92	Insights into PU/EVA Blends Produced Using Industrial Residues Towards Eco-efficient Materials. Journal of Polymers and the Environment, 2022, 30, 1451-1461.	2.4	7
93	Oxyalkylation of Lignoblast, Kraft Lignin with Propylene Carbonate: Design of Experiments towards Synthesis Optimization. Materials, 2022, 15, 1925.	1.3	7
94	Enzymatic synthesis of poly(glycerol sebacate) pre-polymer with crude glycerol, by-product from biodiesel production. AIP Conference Proceedings, 2018, , .	0.3	6
95	PU composites based on different types of textile fibers. Journal of Composite Materials, 2021, 55, 3615-3626.	1.2	6
96	Enhanced compatibility between coconut fibers/PP via chemical modification for 3D printing. Progress in Additive Manufacturing, 2022, 7, 213-223.	2.5	6
97	Langmuir and Langmuir-Blodgett films of derivatives of $\alpha$ -olefin-maleic anhydride alternating copolymers prepared from olefins containing hydrophilic groups. Polymer, 1995, 36, 1707-1714.	1.8	5
98	Optical Properties of the Synthetic Nanocomposites SiO <sub>2</sub> /CdS/Poly(styrene-co-maleic anhydride) and SiO <sub>2</sub> /CdS/Poly(styrene-co-maleimide). Journal of Nanoscience and Nanotechnology, 2002, 2, 177-181.	0.9	5
99	Preparation and Characterization of Hybrid Organic/Inorganic Nanocomposites by In Situ Miniemulsion Polymerization. Materials Science Forum, 2006, 514-516, 1201-1205.	0.3	5
100	Effect of filler functionalization on thermo-mechanical properties of polyamide-12/carbon nanofibers composites: a study of filler-matrix molecular interactions. Journal of Materials Science, 2013, 48, 8427-8437.	1.7	5
101	3D scaffolds from vertically aligned carbon nanotubes/poly(methyl methacrylate) composites via atom transfer radical polymerization. Materials Chemistry and Physics, 2015, 149-150, 378-384.	2.0	5
102	Introducing flexibility in urea-formaldehyde resins: Copolymerization with polyetheramines. Journal of Polymer Science Part A, 2018, 56, 1834-1843.	2.5	5
103	Study of the synthesis parameters of a urea-formaldehyde resin synthesized according to alkaline-acid process. International Journal of Adhesion and Adhesives, 2020, 102, 102646.	1.4	5
104	Polyamide 6/modified pine bark particle composites for additive manufacturing. Journal of Materials Science, 0, , 1.	1.7	5
105	Synthesis of SiO <sub>2</sub> -Coated Bi <sub>2</sub> S <sub>3</sub> /Poly(styrene) Nanocomposites by In-Situ Polymerization. Journal of Nanoscience and Nanotechnology, 2006, 6, 414-420.	0.9	5
106	Langmuir films from semi-amphiphilic sequence-controlled heterocyclic copolymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 313-321.	2.3	4
107	Impact of critical micelle concentration of macroRAFT agents on the encapsulation of colloidal Au nanoparticles. Journal of Colloid and Interface Science, 2019, 545, 251-258.	5.0	4
108	Effects of resin content on mechanical properties of cork-based panels bound with melamine-urea-formaldehyde and polyurethane binders. International Journal of Adhesion and Adhesives, 2020, 101, 102632.	1.4	4

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109	Poly(L-lactic acid)/lithium ferrite composites: Electrical properties. <i>Polymer</i> , 2021, 230, 124100.	1.8	4
110	Size and Shape-Tuned Overgrowth on Au Nanorods Regulated by Polyallylamine. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3373-3375.	0.9	3
111	Langmuir monolayers of fractions of cork suberin extract. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 79, 516-520.	2.5	3
112	Impact of alkaline 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.	1.3	3
113	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.	3.8	3
114	Biofunctional Polymer Coated Au Nanoparticles Prepared via RAFT-Assisted Encapsulating Emulsion Polymerization and Click Chemistry. <i>Polymers</i> , 2020, 12, 1442.	2.0	3
115	Modified cork/SEBS composites for 3D printed elastomers. <i>Polymers for Advanced Technologies</i> , 2022, 33, 1881-1891.	1.6	3
116	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.	2.3	2
117	Studies on the release of polymeric Langmuir-Blodgett multilayers from the solid supports on which they were prepared. <i>Polymer</i> , 2002, 43, 3519-3525.	1.8	1
118	Lignosulfonate-Based Conducting Flexible Polymeric Membranes for Liquid Sensing Applications. <i>Materials</i> , 2021, 14, 5331.	1.3	1
119	Ionic Liquid-Poly(lactic acid) Blends as Green Polymer Electrolyte Membranes. <i>Journal of Physical Chemistry C</i> , 2022, 126, 551-562.	1.5	1