Maria C Paiva

List of Publications by Year in Descending Order

85 papers	2,102 citations	23 h-index	44 g-index
90 ext. papers	2,403 ext. citations	4.8 avg, IF	5.12 L-index

#	Paper	IF	Citations
85	Engineering hybrid textile braids for tendon and ligament repair application. *Journal of Applied Polymer Science*, **2022**, 139, 52013	2.9	1
84	Poly(Lactic Acid)/Graphite Nanoplatelet Nanocomposite Filaments for Ligament Scaffolds. *Nanomaterials*, **2021**, 11,	5.4	4
83	Laser welding of thermoplastics: An overview on lasers, materials, processes and quality. *Infrared Physics and Technology*, **2021**, 119, 103931	2.7	5
82	Polylactic Acid/Carbon Nanoparticle Composite Filaments for Sensing. *Applied Sciences (Switzerland)*, **2021**, 11, 2580	2.6	4
81	3D printing of graphene-based polymeric nanocomposites for biomedical applications. *Functional Composite Materials*, **2021**, 2,	1.7	9
80	3D-printed cryomilled poly(ε-caprolactone)/graphene composite scaffolds for bone tissue regeneration. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2021**, 109, 961-972	3.5	8
79	Insight into the Effects of Solvent Treatment of Natural Fibers Prior to Structural Composite Casting: Chemical, Physical and Mechanical Evaluation. *Fibers*, **2021**, 9, 54	3.7	1
78	Rheologically Assisted Design of Conductive Adhesives for Stencil Printing on PCB.. *Materials*, **2021**, 14,	3.5	2
77	Electrospun Nanocomposites Containing Cellulose and Its Derivatives Modified with Specialized Biomolecules for an Enhanced Wound Healing. *Nanomaterials*, **2020**, 10,	5.4	56
76	Biodegradable polymer nanocomposites for ligament/tendon tissue engineering. *Journal of Nanobiotechnology*, **2020**, 18, 23	9.4	44
75	Assessment of English language performance scores and academic performance in an English-based curriculum for pharmacy students with English as a second language. *Currents in Pharmacy Teaching and Learning*, **2020**, 12, 423-428	1.5	0
74	Bio-inspired deposition of electrochemically exfoliated graphene layers for electrical resistance heating applications. *Nano Express*, **2020**, 1, 030032	2	1
73	Mixed Carbon Nanomaterial/Epoxy Resin for Electrically Conductive Adhesives. *Journal of Composites Science*, **2020**, 4, 105	3	2
72	Potential of Graphene–Polymer Composites for Ligament and Tendon Repair: A Review. *Advanced Engineering Materials*, **2020**, 22, 2000492	3.5	9
71	Health and Safety Concerns Related to CNT and Graphene Products, and Related Composites. *Journal of Composites Science*, **2020**, 4, 106	3	6
70	A Simple Method for Anchoring Silver and Copper Nanoparticles on Single Wall Carbon Nanotubes. *Nanomaterials*, **2019**, 9,	5.4	4
69	Composite Films of Waterborne Polyurethane and Few-Layer Graphene–Enhancing Barrier, Mechanical, and Electrical Properties. *Journal of Composites Science*, **2019**, 3, 35	3	4

68	Advanced electrically conductive adhesives for high complexity PCB assembly **2019**,		1
67	Could Alfa Fibers Substitute Glass Fibers in Composite Materials?. *International Polymer Processing*, **2019**, 34, 133-142	1	1
66	Evaluation of the role of carbon nanotubes on the electrical properties of poly(butylene terephthalate) nanocomposites for industrial applications. *Journal of Elastomers and Plastics*, **2019**, 51, 3-25	1.6	5
65	Nanostructured Biopolymer/Few-Layer Graphene Freestanding Films with Enhanced Mechanical and Electrical Properties. *Macromolecular Materials and Engineering*, **2018**, 303, 1700316	3.9	5
64	Graphene-polymer nanocomposites for biomedical applications. *Polymers for Advanced Technologies*, **2018**, 29, 687-700	3.2	51
63	Effects of Particle Size and Surface Chemistry on the Dispersion of Graphite Nanoplates in Polypropylene Composites. *Polymers*, **2018**, 10,	4.5	18
62	Electrically Conductive Polyetheretherketone Nanocomposite Filaments: From Production to Fused Deposition Modeling. *Polymers*, **2018**, 10,	4.5	39
61	Production of cellulose nanofibers from Alfa grass and application as reinforcement for polyvinyl alcohol. *Plastics, Rubber and Composites*, **2018**, 47, 297-305	1.5	5
60	Water Dispersible Few-Layer Graphene Stabilized by a Novel Pyrene Derivative at Micromolar Concentration. *Nanomaterials*, **2018**, 8,	5.4	6
59	Tracking the progression of dispersion of graphite nanoplates in a polypropylene matrix by melt mixing. *Polymer Composites*, **2017**, 38, 947-954	3	9
58	A novel approach of developing micro crystalline cellulose reinforced cementitious composites with enhanced microstructure and mechanical performance. *Cement and Concrete Composites*, **2017**, 78, 146-161	8.6	33
57	Biomedical films of graphene nanoribbons and nanoflakes with natural polymers. *RSC Advances*, **2017**, 7, 27578-27594	3.7	12
56	Few-layer graphene aqueous suspensions for polyurethane composite coatings. *MRS Advances*, **2017**, 2, 57-62	0.7	3
55	Green synthesis of novel biocomposites from treated cellulosic fibers and recycled bio-plastic polylactic acid. *Journal of Cleaner Production*, **2017**, 164, 575-586	10.3	48
54	Characterizing dispersion and long term stability of concentrated carbon nanotube aqueous suspensions for fabricating ductile cementitious composites. *Powder Technology*, **2017**, 307, 1-9	5.2	23
53	Cellulose Acetate/Carbon Nanotube Composites by Melt Mixing. *Journal of Renewable Materials*, **2017**, 5, 145-153	2.4	4
52	Melt mixing functionalized graphite nanoplates into PC/SAN blends **2017**,		2
51	Development of Dispersion during Compounding and Extrusion of Polypropylene/Graphite Nanoplates Composites. *International Polymer Processing*, **2017**, 32, 614-622	1	8

50	Role of Carbonaceous Fragments on the Functionalization and Electrochemistry of Carbon Materials. *ChemElectroChem*, **2016**, 3, 2138-2145	4.3	5
49	Chitosan nanocomposites based on distinct inorganic fillers for biomedical applications. *Science and Technology of Advanced Materials*, **2016**, 17, 626-643	7.1	51
48	Grafting of adipic anhydride to carbon nanotubes through a Diels-Alder cycloaddition/oxidation cascade reaction. *Carbon*, **2016**, 98, 421-431	10.4	12
47	Carbon Nanofibres and Nanotubes for Composite Applications **2016**, 231-260		3
46	Probing dispersion and re-agglomeration phenomena upon melt-mixing of polymer-functionalized graphite nanoplates. *Soft Matter*, **2016**, 12, 77-86	3.6	33
45	High performance free-standing films by layer-by-layer assembly of graphene flakes and ribbons with natural polymers. *Journal of Materials Chemistry B*, **2016**, 4, 7718-7730	7.3	12
44	The influence of melt mixing on the stability of cellulose acetate and its carbon nanotube composites. *Journal of Polymer Engineering*, **2016**, 36, 943-948	1.4	3
43	Diels-Alder functionalized carbon nanotubes for bone tissue engineering: in vitro/in vivo biocompatibility and biodegradability. *Nanoscale*, **2015**, 7, 9238-51	7.7	23
42	Microstructure and mechanical properties of carbon nanotube reinforced cementitious composites developed using a novel dispersion technique. *Cement and Concrete Research*, **2015**, 73, 215-227	10.3	167
41	Dispersion and re-agglomeration of graphite nanoplates in polypropylene melts under controlled flow conditions. *Composites Part A: Applied Science and Manufacturing*, **2015**, 78, 143-151	8.4	29
40	Enhanced electrochemical sensing of polyphenols by an oxygen-mediated surface. *RSC Advances*, **2015**, 5, 5024-5031	3.7	22
39	Enhancement in the performance of multi-walled carbon nanotube: Poly(methylmethacrylate) composite thin film ethanol sensors through appropriate nanotube functionalization. *Materials Science in Semiconductor Processing*, **2015**, 31, 166-174	4.3	18
38	Probing the surface of oxidized carbon nanotubes by selective interaction with target molecules. *Electrochemistry Communications*, **2015**, 57, 22-26	5.1	7
37	Self-assembled functionalized graphene nanoribbons from carbon nanotubes. *ChemistryOpen*, **2015** , 4, 115-9	2.3	5
36	Microinjection molding of polyamide 6/carbon nanotube composites. *Nanocomposites*, **2015**, 1, 145-151	3.4	1
35	The solvent effect on the sidewall functionalization of multi-walled carbon nanotubes with maleic anhydride. *Carbon*, **2014**, 78, 401-414	10.4	3
34	Microinjection molding of polyamide 6. *Polymers for Advanced Technologies*, **2014**, 25, 891-895	3.2	10
33	Poly(lactic acid) composites with poly(lactic acid)-modified carbon nanotubes. *Journal of Polymer Science Part A*, **2013**, 51, 3740-3750	2.5	29

32	Dispersion of carbon nanotubes in polyamide 6 for microinjection moulding. *Journal of Polymer Research*, **2013**, 20, 1	2.7	16
31	Efficient dispersion of multi-walled carbon nanotubes in aqueous solution by non-covalent interaction with perylene bisimides. *RSC Advances*, **2013**, 3, 24535	3.7	21
30	Dispersion and re-agglomeration phenomena during melt mixing of polypropylene with multi-wall carbon nanotubes. *Polymer Testing*, **2013**, 32, 701-707	4.5	55
29	An Environment Friendly Highly Sensitive Ethanol Vapor Sensor Based on Polymethylethacrylate: Functionalized-Multiwalled Carbon Nanotubes Composite. *Advanced Science, Engineering and Medicine*, **2013**, 5, 1062-1066	0.6	5
28	The effect of flow type and chemical functionalization on the dispersion of carbon nanofiber agglomerates in polypropylene. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 833-841	8.4	44
27	The influence of carbon nanotube functionalization route on the efficiency of dispersion in polypropylene by twin-screw extrusion. *Composites Part A: Applied Science and Manufacturing*, **2012** , 43, 2189-2198	8.4	26
26	Optimization of froth flotation procedure for poly(ethylene terephthalate) recycling industry. *Polymer Engineering and Science*, **2012**, 52, 157-164	2.3	17
25	Comparative analyses of the electrical properties and dispersion level of VGCNF and MWCNT: Epoxy composites. *Journal of Polymer Science, Part B: Polymer Physics*, **2012**, 50, 1253-1261	2.6	3
24	Textile Sensor Applications with Composite Monofilaments of Polymer / Carbon Nanotubes. *Advances in Science and Technology*, **2012**, 80, 65-70	0.1	9
23	Liquid sensing properties of melt processed polypropylene/poly(ε-caprolactone) blends containing multiwalled carbon nanotubes. *Composites Science and Technology*, **2011**, 71, 1451-1460	8.6	43
22	Flow Activation Volume in Composites of Polystyrene and Multiwall Carbon Nanotubes with and without Functionalization. *Macromolecules*, **2011**, 44, 9804-9813	5.5	5
21	Functionalization of PET and PA6.6 woven fabrics. *Applied Surface Science*, **2011**, 257, 7944-7951	6.7	13
20	Unzipping of functionalized multiwall carbon nanotubes induced by STM. *Nano Letters*, **2010**, 10, 1764-8	11.5	48
19	Controlled functionalization of carbon nanotubes by a solvent-free multicomponent approach. *ACS Nano*, **2010**, 4, 7379-86	16.7	49
18	The Diels-Alder cycloaddition reaction in the functionalization of carbon nanofibers. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 6234-8	1.3	11
17	Organic functionalization of carbon nanofibers for composite applications. *Polymer Composites*, **2009**, 31, NA-NA	3	1
16	Interfaces in Alfa Fibre-Polypropylene Matrix Composites. *Materials Science Forum*, **2008**, 587-588, 227-231	0.4	
15	Functionalization of carbon nanofibres by 1,3-dipolar cycloaddition reactions and its effect on composite properties. *Composites Science and Technology*, **2007**, 67, 806-810	8.6	18

14	Alfa fibres: Mechanical, morphological and interfacial characterization. *Composites Science and Technology*, **2007**, 67, 1132-1138	8.6	131
13	The 1,3-dipolar cycloaddition reaction in the functionalization of carbon nanofibers. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 3441-5	1.3	13
12	Functionalization of carbon nanofibers by a Diels-Alder addition reaction. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 3514-8	1.3	12
11	Physical and mechanical characterization of nanocomposites with carbon nanotubes functionalized with the matrix polymer. *Composite Interfaces*, **2005**, 12, 757-768	2.3	16
10	Interfacial studies of carbon fibre / polycarbonate composites using dynamic mechanical analysis. *E-Polymers*, **2005**, 5,	2.7	1
9	Mechanical and morphological characterization of polymer□carbon nanocomposites from functionalized carbon nanotubes. *Carbon*, **2004**, 42, 2849-2854	10.4	261
8	UV stabilization route for melt-processible PAN-based carbon fibers. *Carbon*, **2003**, 41, 1399-1409	10.4	72
7	A novel technique for the interfacial characterisation of glass fibre□polypropylene systems. *Polymer Testing*, **2003**, 22, 907-913	4.5	17
6	Effects of plasma oxidation on the surface and interfacial properties of carbon fibres/polycarbonate composites. *Carbon*, **2001**, 39, 1057-1068	10.4	101
5	A comparative analysis of alternative models to predict the tensile strength of untreated and surface oxidised carbon fibers. *Carbon*, **2001**, 39, 1091-1101	10.4	18
4	Mechanical, surface and interfacial characterisation of pitch and PAN-based carbon fibres. *Carbon*, **2000**, 38, 1323-1337	10.4	177
3	Ribbon fibres from naphthalene-based mesophase: Surface studies and fibre/matrix interactions in polycarbonate composites. *Carbon*, **1998**, 36, 71-77	10.4	4
2	Influence of thermal history on the results of fragmentation tests on high-modulus carbon-fibre/polycarbonate model composites. *Composites Science and Technology*, **1997**, 57, 839-843	8.6	28
1	The Potential of Beeswax Colloidal Emulsion/Films for Hydrophobization of Natural Fibers Prior to NTRM Manufacturing. *Key Engineering Materials*,916, 82-90	0.4	0