

Maria C Paiva

List of Publications by Citations

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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.

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	Mechanical and morphological characterization of polymer/carbon nanocomposites from functionalized carbon nanotubes. <i>Carbon</i> , 2004 , 42, 2849-2854	10.4	261
84	Mechanical, surface and interfacial characterisation of pitch and PAN-based carbon fibres. <i>Carbon</i> , 2000 , 38, 1323-1337	10.4	177
83	Microstructure and mechanical properties of carbon nanotube reinforced cementitious composites developed using a novel dispersion technique. <i>Cement and Concrete Research</i> , 2015 , 73, 215-227	10.3	167
82	Alfa fibres: Mechanical, morphological and interfacial characterization. <i>Composites Science and Technology</i> , 2007 , 67, 1132-1138	8.6	131
81	Effects of plasma oxidation on the surface and interfacial properties of carbon fibres/polycarbonate composites. <i>Carbon</i> , 2001 , 39, 1057-1068	10.4	101
80	UV stabilization route for melt-processible PAN-based carbon fibers. <i>Carbon</i> , 2003 , 41, 1399-1409	10.4	72
79	Electrospun Nanocomposites Containing Cellulose and Its Derivatives Modified with Specialized Biomolecules for an Enhanced Wound Healing. <i>Nanomaterials</i> , 2020 , 10,	5.4	56
78	Dispersion and re-agglomeration phenomena during melt mixing of polypropylene with multi-wall carbon nanotubes. <i>Polymer Testing</i> , 2013 , 32, 701-707	4.5	55
77	Graphene-polymer nanocomposites for biomedical applications. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 687-700	3.2	51
76	Chitosan nanocomposites based on distinct inorganic fillers for biomedical applications. <i>Science and Technology of Advanced Materials</i> , 2016 , 17, 626-643	7.1	51
75	Controlled functionalization of carbon nanotubes by a solvent-free multicomponent approach. <i>ACS Nano</i> , 2010 , 4, 7379-86	16.7	49
74	Green synthesis of novel biocomposites from treated cellulosic fibers and recycled bio-plastic polylactic acid. <i>Journal of Cleaner Production</i> , 2017 , 164, 575-586	10.3	48
73	Unzipping of functionalized multiwall carbon nanotubes induced by STM. <i>Nano Letters</i> , 2010 , 10, 1764-811.5	11.5	48
72	Biodegradable polymer nanocomposites for ligament/tendon tissue engineering. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 23	9.4	44
71	The effect of flow type and chemical functionalization on the dispersion of carbon nanofiber agglomerates in polypropylene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 833-841	8.4	44
70	Liquid sensing properties of melt processed polypropylene/poly(E-caprolactone) blends containing multiwalled carbon nanotubes. <i>Composites Science and Technology</i> , 2011 , 71, 1451-1460	8.6	43
69	Electrically Conductive Polyetheretherketone Nanocomposite Filaments: From Production to Fused Deposition Modeling. <i>Polymers</i> , 2018 , 10,	4.5	39

68	A novel approach of developing micro crystalline cellulose reinforced cementitious composites with enhanced microstructure and mechanical performance. <i>Cement and Concrete Composites</i> , 2017 , 78, 146-161	8.6	33
67	Probing dispersion and re-agglomeration phenomena upon melt-mixing of polymer-functionalized graphite nanoplates. <i>Soft Matter</i> , 2016 , 12, 77-86	3.6	33
66	Dispersion and re-agglomeration of graphite nanoplates in polypropylene melts under controlled flow conditions. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 78, 143-151	8.4	29
65	Poly(lactic acid) composites with poly(lactic acid)-modified carbon nanotubes. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 3740-3750	2.5	29
64	Influence of thermal history on the results of fragmentation tests on high-modulus carbon-fibre/polycarbonate model composites. <i>Composites Science and Technology</i> , 1997 , 57, 839-843	8.6	28
63	The influence of carbon nanotube functionalization route on the efficiency of dispersion in polypropylene by twin-screw extrusion. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 2189-2198	8.4	26
62	Diels-Alder functionalized carbon nanotubes for bone tissue engineering: in vitro/in vivo biocompatibility and biodegradability. <i>Nanoscale</i> , 2015 , 7, 9238-51	7.7	23
61	Characterizing dispersion and long term stability of concentrated carbon nanotube aqueous suspensions for fabricating ductile cementitious composites. <i>Powder Technology</i> , 2017 , 307, 1-9	5.2	23
60	Enhanced electrochemical sensing of polyphenols by an oxygen-mediated surface. <i>RSC Advances</i> , 2015 , 5, 5024-5031	3.7	22
59	Efficient dispersion of multi-walled carbon nanotubes in aqueous solution by non-covalent interaction with perylene bisimides. <i>RSC Advances</i> , 2013 , 3, 24535	3.7	21
58	Enhancement in the performance of multi-walled carbon nanotube: Poly(methylmethacrylate) composite thin film ethanol sensors through appropriate nanotube functionalization. <i>Materials Science in Semiconductor Processing</i> , 2015 , 31, 166-174	4.3	18
57	Effects of Particle Size and Surface Chemistry on the Dispersion of Graphite Nanoplates in Polypropylene Composites. <i>Polymers</i> , 2018 , 10,	4.5	18
56	Functionalization of carbon nanofibres by 1,3-dipolar cycloaddition reactions and its effect on composite properties. <i>Composites Science and Technology</i> , 2007 , 67, 806-810	8.6	18
55	A comparative analysis of alternative models to predict the tensile strength of untreated and surface oxidised carbon fibers. <i>Carbon</i> , 2001 , 39, 1091-1101	10.4	18
54	Optimization of froth flotation procedure for poly(ethylene terephthalate) recycling industry. <i>Polymer Engineering and Science</i> , 2012 , 52, 157-164	2.3	17
53	A novel technique for the interfacial characterisation of glass fibre/polypropylene systems. <i>Polymer Testing</i> , 2003 , 22, 907-913	4.5	17
52	Dispersion of carbon nanotubes in polyamide 6 for microinjection moulding. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	16
51	Physical and mechanical characterization of nanocomposites with carbon nanotubes functionalized with the matrix polymer. <i>Composite Interfaces</i> , 2005 , 12, 757-768	2.3	16

50	Functionalization of PET and PA6.6 woven fabrics. <i>Applied Surface Science</i> , 2011 , 257, 7944-7951	6.7	13
49	The 1,3-dipolar cycloaddition reaction in the functionalization of carbon nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3441-5	1.3	13
48	Biomedical films of graphene nanoribbons and nanoflakes with natural polymers. <i>RSC Advances</i> , 2017 , 7, 27578-27594	3.7	12
47	Grafting of adipic anhydride to carbon nanotubes through a Diels-Alder cycloaddition/oxidation cascade reaction. <i>Carbon</i> , 2016 , 98, 421-431	10.4	12
46	Functionalization of carbon nanofibers by a Diels-Alder addition reaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3514-8	1.3	12
45	High performance free-standing films by layer-by-layer assembly of graphene flakes and ribbons with natural polymers. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7718-7730	7.3	12
44	The Diels-Alder cycloaddition reaction in the functionalization of carbon nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6234-8	1.3	11
43	Microinjection molding of polyamide 6. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 891-895	3.2	10
42	Tracking the progression of dispersion of graphite nanoplates in a polypropylene matrix by melt mixing. <i>Polymer Composites</i> , 2017 , 38, 947-954	3	9
41	Textile Sensor Applications with Composite Monofilaments of Polymer / Carbon Nanotubes. <i>Advances in Science and Technology</i> , 2012 , 80, 65-70	0.1	9
40	Potential of Graphene Polymer Composites for Ligament and Tendon Repair: A Review. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000492	3.5	9
39	3D printing of graphene-based polymeric nanocomposites for biomedical applications. <i>Functional Composite Materials</i> , 2021 , 2,	1.7	9
38	Development of Dispersion during Compounding and Extrusion of Polypropylene/Graphite Nanoplates Composites. <i>International Polymer Processing</i> , 2017 , 32, 614-622	1	8
37	3D-printed cryomilled poly(E-caprolactone)/graphene composite scaffolds for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 961-972	3.5	8
36	Probing the surface of oxidized carbon nanotubes by selective interaction with target molecules. <i>Electrochemistry Communications</i> , 2015 , 57, 22-26	5.1	7
35	Water Dispersible Few-Layer Graphene Stabilized by a Novel Pyrene Derivative at Micromolar Concentration. <i>Nanomaterials</i> , 2018 , 8,	5.4	6
34	Health and Safety Concerns Related to CNT and Graphene Products, and Related Composites. <i>Journal of Composites Science</i> , 2020 , 4, 106	3	6
33	Nanostructured Biopolymer/Few-Layer Graphene Freestanding Films with Enhanced Mechanical and Electrical Properties. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700316	3.9	5

32	Role of Carbonaceous Fragments on the Functionalization and Electrochemistry of Carbon Materials. <i>ChemElectroChem</i> , 2016 , 3, 2138-2145	4.3	5
31	Production of cellulose nanofibers from Alfa grass and application as reinforcement for polyvinyl alcohol. <i>Plastics, Rubber and Composites</i> , 2018 , 47, 297-305	1.5	5
30	Self-assembled functionalized graphene nanoribbons from carbon nanotubes. <i>ChemistryOpen</i> , 2015 , 4, 115-9	2.3	5
29	Flow Activation Volume in Composites of Polystyrene and Multiwall Carbon Nanotubes with and without Functionalization. <i>Macromolecules</i> , 2011 , 44, 9804-9813	5.5	5
28	An Environment Friendly Highly Sensitive Ethanol Vapor Sensor Based on Polymethylethacrylate: Functionalized-Multiwalled Carbon Nanotubes Composite. <i>Advanced Science, Engineering and Medicine</i> , 2013 , 5, 1062-1066	0.6	5
27	Laser welding of thermoplastics: An overview on lasers, materials, processes and quality. <i>Infrared Physics and Technology</i> , 2021 , 119, 103931	2.7	5
26	Evaluation of the role of carbon nanotubes on the electrical properties of poly(butylene terephthalate) nanocomposites for industrial applications. <i>Journal of Elastomers and Plastics</i> , 2019 , 51, 3-25	1.6	5
25	A Simple Method for Anchoring Silver and Copper Nanoparticles on Single Wall Carbon Nanotubes. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
24	Composite Films of Waterborne Polyurethane and Few-Layer Graphene Enhancing Barrier, Mechanical, and Electrical Properties. <i>Journal of Composites Science</i> , 2019 , 3, 35	3	4
23	Cellulose Acetate/Carbon Nanotube Composites by Melt Mixing. <i>Journal of Renewable Materials</i> , 2017 , 5, 145-153	2.4	4
22	Ribbon fibres from naphthalene-based mesophase: Surface studies and fibre/matrix interactions in polycarbonate composites. <i>Carbon</i> , 1998 , 36, 71-77	10.4	4
21	Poly(Lactic Acid)/Graphite Nanoplatelet Nanocomposite Filaments for Ligament Scaffolds. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
20	Poly(lactic Acid)/Carbon Nanoparticle Composite Filaments for Sensing. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2580	2.6	4
19	Few-layer graphene aqueous suspensions for polyurethane composite coatings. <i>MRS Advances</i> , 2017 , 2, 57-62	0.7	3
18	Carbon Nanofibres and Nanotubes for Composite Applications 2016 , 231-260		3
17	The solvent effect on the sidewall functionalization of multi-walled carbon nanotubes with maleic anhydride. <i>Carbon</i> , 2014 , 78, 401-414	10.4	3
16	Comparative analyses of the electrical properties and dispersion level of VGCNF and MWCNT: Epoxy composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1253-1261	2.6	3
15	The influence of melt mixing on the stability of cellulose acetate and its carbon nanotube composites. <i>Journal of Polymer Engineering</i> , 2016 , 36, 943-948	1.4	3

14	Melt mixing functionalized graphite nanoplates into PC/SAN blends 2017 ,		2
13	Mixed Carbon Nanomaterial/Epoxy Resin for Electrically Conductive Adhesives. <i>Journal of Composites Science</i> , 2020 , 4, 105	3	2
12	Rheologically Assisted Design of Conductive Adhesives for Stencil Printing on PCB.. <i>Materials</i> , 2021 , 14,	3.5	2
11	Advanced electrically conductive adhesives for high complexity PCB assembly 2019 ,		1
10	Microinjection molding of polyamide 6/carbon nanotube composites. <i>Nanocomposites</i> , 2015 , 1, 145-151	3.4	1
9	Organic functionalization of carbon nanofibers for composite applications. <i>Polymer Composites</i> , 2009 , 31, NA-NA	3	1
8	Interfacial studies of carbon fibre / polycarbonate composites using dynamic mechanical analysis. <i>E-Polymers</i> , 2005 , 5,	2.7	1
7	Could Alfa Fibers Substitute Glass Fibers in Composite Materials?. <i>International Polymer Processing</i> , 2019 , 34, 133-142	1	1
6	Bio-inspired deposition of electrochemically exfoliated graphene layers for electrical resistance heating applications. <i>Nano Express</i> , 2020 , 1, 030032	2	1
5	Insight into the Effects of Solvent Treatment of Natural Fibers Prior to Structural Composite Casting: Chemical, Physical and Mechanical Evaluation. <i>Fibers</i> , 2021 , 9, 54	3.7	1
4	Engineering hybrid textile braids for tendon and ligament repair application. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 52013	2.9	1
3	Assessment of English language performance scores and academic performance in an English-based curriculum for pharmacy students with English as a second language. <i>Currents in Pharmacy Teaching and Learning</i> , 2020 , 12, 423-428	1.5	0
2	The Potential of Beeswax Colloidal Emulsion/Films for Hydrophobization of Natural Fibers Prior to NTRM Manufacturing. <i>Key Engineering Materials</i> , 916, 82-90	0.4	0
1	Interfaces in Alfa Fibre-Polypropylene Matrix Composites. <i>Materials Science Forum</i> , 2008 , 587-588, 227-231		1