

Maria C Paiva

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,709
citations

218677

26
h-index

189892

50
g-index

90
all docs

90
docs citations

90
times ranked

3475
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical and morphological characterization of polymer-carbon nanocomposites from functionalized carbon nanotubes. <i>Carbon</i> , 2004, 42, 2849-2854.	10.3	287
2	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.	11.0	231
3	Mechanical, surface and interfacial characterisation of pitch and PAN-based carbon fibres. <i>Carbon</i> , 2000, 38, 1323-1337.	10.3	197
4	Alfa fibres: Mechanical, morphological and interfacial characterization. <i>Composites Science and Technology</i> , 2007, 67, 1132-1138.	7.8	169
5	Effects of plasma oxidation on the surface and interfacial properties of carbon fibres/polycarbonate composites. <i>Carbon</i> , 2001, 39, 1057-1068.	10.3	115
6	Electrospun Nanocomposites Containing Cellulose and Its Derivatives Modified with Specialized Biomolecules for an Enhanced Wound Healing. <i>Nanomaterials</i> , 2020, 10, 557.	4.1	97
7	Biodegradable polymer nanocomposites for ligament/tendon tissue engineering. <i>Journal of Nanobiotechnology</i> , 2020, 18, 23.	9.1	91
8	UV stabilization route for melt-processible PAN-based carbon fibers. <i>Carbon</i> , 2003, 41, 1399-1409.	10.3	80
9	Electrically Conductive Polyetheretherketone Nanocomposite Filaments: From Production to Fused Deposition Modeling. <i>Polymers</i> , 2018, 10, 925.	4.5	71
10	Graphene-polymer nanocomposites for biomedical applications. <i>Polymers for Advanced Technologies</i> , 2018, 29, 687-700.	3.2	70
11	Chitosan nanocomposites based on distinct inorganic fillers for biomedical applications. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 626-643.	6.1	66
12	Dispersion and re-agglomeration phenomena during melt mixing of polypropylene with multi-wall carbon nanotubes. <i>Polymer Testing</i> , 2013, 32, 701-707.	4.8	63
13	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.	9.3	61
14	Controlled Functionalization of Carbon Nanotubes by a Solvent-free Multicomponent Approach. <i>ACS Nano</i> , 2010, 4, 7379-7386.	14.6	57
15	Unzipping of Functionalized Multiwall Carbon Nanotubes Induced by STM. <i>Nano Letters</i> , 2010, 10, 1764-1768.	9.1	50
16	Liquid sensing properties of melt processed polypropylene/poly(μ -caprolactone) blends containing multiwalled carbon nanotubes. <i>Composites Science and Technology</i> , 2011, 71, 1451-1460.	7.8	50
17	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.	7.6	49
18	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.	10.7	44

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19	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.	7.6	35
20	Probing dispersion and re-agglomeration phenomena upon melt-mixing of polymer-functionalized graphite nanoplates. <i>Soft Matter</i> , 2016, 12, 77-86.	2.7	34
21	Poly(lactic acid) composites with poly(lactic acid)-modified carbon nanotubes. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3740-3750.	2.3	33
22	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.	4.2	30
23	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.	7.6	29
24	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.	7.8	28
25	Enhanced electrochemical sensing of polyphenols by an oxygen-mediated surface. <i>RSC Advances</i> , 2015, 5, 5024-5031.	3.6	28
26	Diels-Alder functionalized carbon nanotubes for bone tissue engineering: in vitro/in vivo biocompatibility and biodegradability. <i>Nanoscale</i> , 2015, 7, 9238-9251.	5.6	26
27	3D printing of graphene-based polymeric nanocomposites for biomedical applications. <i>Functional Composite Materials</i> , 2021, 2, .	1.4	26
28	Effects of Particle Size and Surface Chemistry on the Dispersion of Graphite Nanoplates in Polypropylene Composites. <i>Polymers</i> , 2018, 10, 222.	4.5	25
29	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.	7.8	23
30	Optimization of froth flotation procedure for poly(ethylene terephthalate) recycling industry. <i>Polymer Engineering and Science</i> , 2012, 52, 157-164.	3.1	23
31	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.	4.0	23
32	Health and Safety Concerns Related to CNT and Graphene Products, and Related Composites. <i>Journal of Composites Science</i> , 2020, 4, 106.	3.0	23
33	Dispersion of carbon nanotubes in polyamide 6 for microinjection moulding. <i>Journal of Polymer Research</i> , 2013, 20, 1.	2.4	22
34	Efficient dispersion of multi-walled carbon nanotubes in aqueous solution by non-covalent interaction with perylene bisimides. <i>RSC Advances</i> , 2013, 3, 24535.	3.6	22
35	3D-printed cryomilled poly(ϵ -caprolactone)/graphene composite scaffolds for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 961-972.	3.4	20
36	Laser welding of thermoplastics: An overview on lasers, materials, processes and quality. <i>Infrared Physics and Technology</i> , 2021, 119, 103931.	2.9	20

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37	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.	10.3	19
38	A novel technique for the interfacial characterisation of glass fibre/polypropylene systems. <i>Polymer Testing</i> , 2003, 22, 907-913.	4.8	19
39	The 1,3-Dipolar Cycloaddition Reaction in the Functionalization of Carbon Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3441-3445.	0.9	18
40	Physical and mechanical characterization of nanocomposites with carbon nanotubes functionalized with the matrix polymer. <i>Composite Interfaces</i> , 2005, 12, 757-768.	2.3	17
41	Functionalization of PET and PA6.6 woven fabrics. <i>Applied Surface Science</i> , 2011, 257, 7944-7951.	6.1	15
42	Biomedical films of graphene nanoribbons and nanoflakes with natural polymers. <i>RSC Advances</i> , 2017, 7, 27578-27594.	3.6	15
43	Grafting of adipic anhydride to carbon nanotubes through a Diels-Alder cycloaddition/oxidation cascade reaction. <i>Carbon</i> , 2016, 98, 421-431.	10.3	14
44	Functionalization of Carbon Nanofibers by a Diels-Alder Addition Reaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3514-3518.	0.9	13
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.	5.8	13
46	Production of cellulose nanofibers from Alfa grass and application as reinforcement for polyvinyl alcohol. <i>Plastics, Rubber and Composites</i> , 2018, 47, 297-305.	2.0	13
47	The Diels-Alder Cycloaddition Reaction in the Functionalization of Carbon Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6234-6238.	0.9	12
48	Textile Sensor Applications with Composite Monofilaments of Polymer / Carbon Nanotubes. <i>Advances in Science and Technology</i> , 2012, 80, 65-70.	0.2	12
49	Microinjection molding of polyamide 6. <i>Polymers for Advanced Technologies</i> , 2014, 25, 891-895.	3.2	12
50	Potential of Graphene/Polymer Composites for Ligament and Tendon Repair: A Review. <i>Advanced Engineering Materials</i> , 2020, 22, 2000492.	3.5	12
51	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.	4.0	11
52	Tracking the progression of dispersion of graphite nanoplates in a polypropylene matrix by melt mixing. <i>Polymer Composites</i> , 2017, 38, 947-954.	4.6	10
53	A Simple Method for Anchoring Silver and Copper Nanoparticles on Single Wall Carbon Nanotubes. <i>Nanomaterials</i> , 2019, 9, 1416.	4.1	10
54	Development of Dispersion during Compounding and Extrusion of Polypropylene/Graphite Nanoplates Composites. <i>International Polymer Processing</i> , 2017, 32, 614-622.	0.5	9

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55	Water Dispersible Few-Layer Graphene Stabilized by a Novel Pyrene Derivative at Micromolar Concentration. <i>Nanomaterials</i> , 2018, 8, 675.	4.1	9
56	Probing the surface of oxidized carbon nanotubes by selective interaction with target molecules. <i>Electrochemistry Communications</i> , 2015, 57, 22-26.	4.7	8
57	Composite Films of Waterborne Polyurethane and Few-Layer Graphene—Enhancing Barrier, Mechanical, and Electrical Properties. <i>Journal of Composites Science</i> , 2019, 3, 35.	3.0	8
58	Polylactic Acid/Carbon Nanoparticle Composite Filaments for Sensing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2580.	2.5	8
59	Role of Carbonaceous Fragments on the Functionalization and Electrochemistry of Carbon Materials. <i>ChemElectroChem</i> , 2016, 3, 2138-2145.	3.4	7
60	Poly(Lactic Acid)/Graphite Nanoplatelet Nanocomposite Filaments for Ligament Scaffolds. <i>Nanomaterials</i> , 2021, 11, 2796.	4.1	7
61	Organic functionalization of carbon nanofibers for composite applications. <i>Polymer Composites</i> , 2010, 31, 369-376.	4.6	6
62	Self-Assembled Functionalized Graphene Nanoribbons from Carbon Nanotubes. <i>ChemistryOpen</i> , 2015, 4, 115-119.	1.9	6
63	Carbon Nanofibres and Nanotubes for Composite Applications. <i>Textile Science and Clothing Technology</i> , 2016, , 231-260.	0.5	6
64	Nanostructured Biopolymer/Few-Layer Graphene Freestanding Films with Enhanced Mechanical and Electrical Properties. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700316.	3.6	6
65	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.	0.3	6
66	Flow Activation Volume in Composites of Polystyrene and Multiwall Carbon Nanotubes with and without Functionalization. <i>Macromolecules</i> , 2011, 44, 9804-9813.	4.8	5
67	Evaluation of the role of carbon nanotubes on the electrical properties of poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 51, 3-25.	1.5	5
68	Mixed Carbon Nanomaterial/Epoxy Resin for Electrically Conductive Adhesives. <i>Journal of Composites Science</i> , 2020, 4, 105.	3.0	5
69	Rheologically Assisted Design of Conductive Adhesives for Stencil Printing on PCB. <i>Materials</i> , 2021, 14, 7734.	2.9	5
70	Ribbon fibres from naphthalene-based mesophase: Surface studies and fibre/matrix interactions in polycarbonate composites. <i>Carbon</i> , 1998, 36, 71-77.	10.3	4
71	Comparative analyses of the electrical properties and dispersion level of VGCF and MWCNT: Epoxy composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1253-1261.	2.1	4
72	The solvent effect on the sidewall functionalization of multi-walled carbon nanotubes with maleic anhydride. <i>Carbon</i> , 2014, 78, 401-414.	10.3	4

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73	Few-layer graphene aqueous suspensions for polyurethane composite coatings. MRS Advances, 2017, 2, 57-62.	0.9	4
74	Cellulose Acetate/Carbon Nanotube Composites by Melt Mixing. Journal of Renewable Materials, 2017, 5, 145-153.	2.2	4
75	Advanced electrically conductive adhesives for high complexity PCB assembly. AIP Conference Proceedings, 2019, , .	0.4	4
76	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.	1.0	4
77	Engineering hybrid textile braids for tendon and ligament repair application. Journal of Applied Polymer Science, 2022, 139, 52013.	2.6	4
78	Interfacial studies of carbon fibre / polycarbonate composites using dynamic mechanical analysis. E-Polymers, 2005, 5, .	3.0	3
79	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
80	Melt mixing functionalized graphite nanoplates into PC/SAN blends. AIP Conference Proceedings, 2017, , .	0.4	3
81	Could Alfa Fibers Substitute Glass Fibers in Composite Materials?. International Polymer Processing, 2019, 34, 133-142.	0.5	2
82	Development of electrically conductive polymer nanocomposites for the automotive cable industry. Polimeros, 2021, 31, .	0.7	2
83	The Potential of Beeswax Colloidal Emulsion/Films for Hydrophobization of Natural Fibers Prior to NTRM Manufacturing. Key Engineering Materials, 0, 916, 82-90.	0.4	2
84	Microinjection molding of polyamide 6/carbon nanotube composites. Nanocomposites, 2015, 1, 145-151.	4.2	1
85	Bio-inspired deposition of electrochemically exfoliated graphene layers for electrical resistance heating applications. Nano Express, 2020, 1, 030032.	2.4	1
86	Hybrid structures for Achilles' tendon repair. Polymers for Advanced Technologies, 0, , .	3.2	1
87	Interfaces in Alfa Fibre-Polypropylene Matrix Composites. Materials Science Forum, 2008, 587-588, 227-231.	0.3	0
88	Morphology evolution during manufacture and extrusion of polypropylene/graphite nanoplates composites. AIP Conference Proceedings, 2015, , .	0.4	0