Maria C Paiva

List of Publications by Year
in descending order

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88 papers	2,709 citations	218592 26 h-index	189801 50 g-index
90 all docs	90 docs citations	90 times ranked	3475 citing authors

#	Article	IF	Citations
1	Mechanical and morphological characterization of polymerâ€“carbon nanocomposites from functionalized carbon nanotubes. Carbon, 2004, 42, 2849-2854.	5.4	287
2	Microstructure and mechanical properties of carbon nanotube reinforced cementitious composites developed using a novel dispersion technique. Cement and Concrete Research, 2015, 73, 215-227.	4.6	231
3	Mechanical, surface and interfacial characterisation of pitch and PAN-based carbon fibres. Carbon, 2000, 38, 1323-1337.	5.4	197
4	Alfa fibres: Mechanical, morphological and interfacial characterization. Composites Science and Technology, 2007, 67, 1132-1138.	3.8	169
5	Effects of plasma oxidation on the surface and interfacial properties of carbon fibres/polycarbonate composites. Carbon, 2001, 39, 1057-1068.	5.4	115
6	Electrospun Nanocomposites Containing Cellulose and Its Derivatives Modified with Specialized Biomolecules for an Enhanced Wound Healing. Nanomaterials, 2020, 10, 557.	1.9	97
7	Biodegradable polymer nanocomposites for ligament/tendon tissue engineering. Journal of Nanobiotechnology, 2020, 18, 23.	4.2	91
8	UV stabilization route for melt-processible PAN-based carbon fibers. Carbon, 2003, 41, 1399-1409.	5.4	80
9	Electrically Conductive Polyetheretherketone Nanocomposite Filaments: From Production to Fused Deposition Modeling. Polymers, 2018, 10, 925.	2.0	71
10	Grapheneâ€polymer nanocomposites for biomedical applications. Polymers for Advanced Technologies, 2018, 29, 687-700.	1.6	70
11	Chitosan nanocomposites based on distinct inorganic fillers for biomedical applications. Science and Technology of Advanced Materials, 2016, 17, 626-643.	2.8	66
12	Dispersion and re-agglomeration phenomena during melt mixing of polypropylene with multi-wall carbon nanotubes. Polymer Testing, 2013, 32, 701-707.	2.3	63
13	Green synthesis of novel biocomposites from treated cellulosic fibers and recycled bio-plastic polylactic acid. Journal of Cleaner Production, 2017, 164, 575-586.	4.6	61
14	Controlled Functionalization of Carbon Nanotubes by a Solvent-free Multicomponent Approach. ACS Nano, 2010, 4, 7379-7386.	7.3	57
15	Unzipping of Functionalized Multiwall Carbon Nanotubes Induced by STM. Nano Letters, 2010, 10, 1764-1768.	4.5	50
16	Liquid sensing properties of melt processed polypropylene/poly(Ìµ-caprolactone) blends containing multiwalled carbon nanotubes. Composites Science and Technology, 2011, 71, 1451-1460.	3.8	50
17	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.	3.8	49
18	A novel approach of developing micro crystalline cellulose reinforcedÂcementitious composites with enhanced microstructureÂand mechanical performance. Cement and Concrete Composites, 2017, 78, 146-161.	4.6	44

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19	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.	3.8	35
20	Probing dispersion and re-agglomeration phenomena upon melt-mixing of polymer-functionalized graphite nanoplates. Soft Matter, 2016, 12, 77-86.	1.2	34
21	Poly(lactic acid) composites with poly(lactic acid)â€modified carbon nanotubes. Journal of Polymer Science Part A, 2013, 51, 3740-3750.	2.5	33
22	Characterizing dispersion and long term stability of concentrated carbon nanotube aqueous suspensions for fabricating ductile cementitious composites. Powder Technology, 2017, 307, 1-9.	2.1	30
23	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.	3.8	29
24	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.	3.8	28
25	Enhanced electrochemical sensing of polyphenols by an oxygen-mediated surface. RSC Advances, 2015, 5, 5024-5031.	1.7	28
26	Dielsâ€“Alder functionalized carbon nanotubes for bone tissue engineering: in vitro/in vivo biocompatibility and biodegradability. Nanoscale, 2015, 7, 9238-9251.	2.8	26
27	3D printing of graphene-based polymeric nanocomposites for biomedical applications. Functional Composite Materials, 2021, 2, .	0.9	26
28	Effects of Particle Size and Surface Chemistry on the Dispersion of Graphite Nanoplates in Polypropylene Composites. Polymers, 2018, 10, 222.	2.0	25
29	Functionalization of carbon nanofibres by 1,3-dipolar cycloaddition reactions and its effect on composite properties. Composites Science and Technology, 2007, 67, 806-810.	3.8	23
30	Optimization of froth flotation procedure for poly(ethylene terephthalate) recycling industry. Polymer Engineering and Science, 2012, 52, 157-164.	1.5	23
31	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.	1.9	23
32	Health and Safety Concerns Related to CNT and Graphene Products, and Related Composites. Journal of Composites Science, 2020, 4, 106.	1.4	23
33	Dispersion of carbon nanotubes in polyamide 6 for microinjection moulding. Journal of Polymer Research, 2013, 20, 1.	1.2	22
34	Efficient dispersion of multi-walled carbon nanotubes in aqueous solution by non-covalent interaction with perylene bisimides. RSC Advances, 2013, 3, 24535.	1.7	22
35	<scp>3D</scp>â€printed cryomilled poly(Îµâ€caprolactone)/graphene composite scaffolds for bone tissue regeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 961-972.	1.6	20
36	Laser welding of thermoplastics: An overview on lasers, materials, processes and quality. Infrared Physics and Technology, 2021, 119, 103931.	1.3	20

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37	A comparative analysis of alternative models to predict the tensile strength of untreated and surface oxidised carbon fibers. Carbon, 2001, 39, 1091-1101.	5.4	19
38	A novel technique for the interfacial characterisation of glass fibreâ€“polypropylene systems. Polymer Testing, 2003, 22, 907-913.	2.3	19
39	The 1,3-Dipolar Cycloaddition Reaction in the Functionalization of Carbon Nanofibers. Journal of Nanoscience and Nanotechnology, 2007, 7, 3441-3445.	0.9	18
40	Physical and mechanical characterization of nanocomposites with carbon nanotubes functionalized with the matrix polymer. Composite Interfaces, 2005, 12, 757-768.	1.3	17
41	Functionalization of PET and PA6.6 woven fabrics. Applied Surface Science, 2011, 257, 7944-7951.	3.1	15
42	Biomedical films of graphene nanoribbons and nanoflakes with natural polymers. RSC Advances, 2017, 7, 27578-27594.	1.7	15
43	Grafting of adipic anhydride to carbon nanotubes through a Diels-Alder cycloaddition/oxidation cascade reaction. Carbon, 2016, 98, 421-431.	5.4	14
44	Functionalization of Carbon Nanofibers by a Diels-Alder Addition Reaction. Journal of Nanoscience and Nanotechnology, 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. Journal of Materials Chemistry B, 2016, 4, 7718-7730.	2.9	13
46	Production of cellulose nanofibers from Alfa grass and application as reinforcement for polyvinyl alcohol. Plastics, Rubber and Composites, 2018, 47, 297-305.	0.9	13
47	The Diels-Alder Cycloaddition Reaction in the Functionalization of Carbon Nanofibers. Journal of Nanoscience and Nanotechnology, 2009, 9, 6234-6238.	0.9	12
48	Textile Sensor Applications with Composite Monofilaments of Polymer / Carbon Nanotubes. Advances in Science and Technology, 2012, 80, 65-70.	0.2	12
49	Microinjection molding of polyamide 6. Polymers for Advanced Technologies, 2014, 25, 891-895.	1.6	12
50	Potential of Grapheneâ€“Polymer Composites for Ligament and Tendon Repair: A Review. Advanced Engineering Materials, 2020, 22, 2000492.	1.6	12
51	Insight into the Effects of Solvent Treatment of Natural Fibers Prior to Structural Composite Casting: Chemical, Physical and Mechanical Evaluation. Fibers, 2021, 9, 54.	1.8	11
52	Tracking the progression of dispersion of graphite nanoplates in a polypropylene matrix by melt mixing. Polymer Composites, 2017, 38, 947-954.	2.3	10
53	A Simple Method for Anchoring Silver and Copper Nanoparticles on Single Wall Carbon Nanotubes. Nanomaterials, 2019, 9, 1416.	1.9	10
54	Development of Dispersion during Compounding and Extrusion of Polypropylene/Graphite Nanoplates Composites. International Polymer Processing, 2017, 32, 614-622.	0.3	9

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55	Water Dispersible Few-Layer Graphene Stabilized by a Novel Pyrene Derivative at Micromolar Concentration. Nanomaterials, 2018, 8, 675.	1.9	9
56	Probing the surface of oxidized carbon nanotubes by selective interaction with target molecules. Electrochemistry Communications, 2015, 57, 22-26.	2.3	8
57	Composite Films of Waterborne Polyurethane and Few-Layer Grapheneâ€"Enhancing Barrier, Mechanical, and Electrical Properties. Journal of Composites Science, 2019, 3, 35.	1.4	8
58	Polylactic Acid/Carbon Nanoparticle Composite Filaments for Sensing. Applied Sciences (Switzerland), 2021, 11, 2580.	1.3	8
59	Role of Carbonaceous Fragments on the Functionalization and Electrochemistry of Carbon Materials. ChemElectroChem, 2016, 3, 2138-2145.	1.7	7
60	Poly(Lactic Acid)/Graphite Nanoplatelet Nanocomposite Filaments for Ligament Scaffolds. Nanomaterials, 2021, 11, 2796.	1.9	7
61	Organic functionalization of carbon nanofibers for composite applications. Polymer Composites, 2010, 31, 369-376.	2.3	6
62	Selfâ€Assembled Functionalized Graphene Nanoribbons from Carbon Nanotubes. ChemistryOpen, 2015, 4, 115-119.	0.9	6
63	Carbon Nanofibres and Nanotubes for Composite Applications. Textile Science and Clothing Technology, 2016, , 231-260.	0.4	6
64	Nanostructured Biopolymer/Fewâ€Layer Graphene Freestanding Films with Enhanced Mechanical and Electrical Properties. Macromolecular Materials and Engineering, 2018, 303, 1700316.	1.7	6
65	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.	0.3	6
66	Flow Activation Volume in Composites of Polystyrene and Multiwall Carbon Nanotubes with and without Functionalization. Macromolecules, 2011, 44, 9804-9813.	2.2	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 2 51, 3-25.	0.7	5
68	Mixed Carbon Nanomaterial/Epoxy Resin for Electrically Conductive Adhesives. Journal of Composites Science, 2020, 4, 105.	1.4	5
69	Rheologically Assisted Design of Conductive Adhesives for Stencil Printing on PCB. Materials, 2021, 14, 7734.	1.3	5
70	Ribbon fibres from naphthalene-based mesophase: Surface studies and fibre/matrix interactions in polycarbonate composites. Carbon, 1998, 36, 71-77.	5.4	4
71	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.	2.4	4
72	The solvent effect on the sidewall functionalization of multi-walled carbon nanotubes with maleic anhydride. Carbon, 2014, 78, 401-414.	5.4	4

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73	Few-layer graphene aqueous suspensions for polyurethane composite coatings. MRS Advances, 2017, 2, 57-62.	0.5	4
74	Cellulose Acetate/Carbon Nanotube Composites by Melt Mixing. Journal of Renewable Materials, 2017, 5, 145-153.	1.1	4
75	Advanced electrically conductive adhesives for high complexity PCB assembly. AIP Conference Proceedings, 2019, , .	0.3	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.	0.4	4
77	Engineering hybrid textile braids for tendon and ligament repair application. Journal of Applied Polymer Science, 2022, 139, 52013.	1.3	4
78	Interfacial studies of carbon fibre / polycarbonate composites using dynamic mechanical analysis. E-Polymers, 2005, 5, .	1.3	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.	0.6	3
80	Melt mixing functionalized graphite nanoplates into PC/SAN blends. AIP Conference Proceedings, 2017, , .	0.3	3
81	Could Alfa Fibers Substitute Glass Fibers in Composite Materials?. International Polymer Processing, 2019, 34, 133-142.	0.3	2
82	Development of electrically conductive polymer nanocomposites for the automotive cable industry. Polimeros, 2021, 31, .	0.2	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.	2.2	1
85	Bio-inspired deposition of electrochemically exfoliated graphene layers for electrical resistance heating applications. Nano Express, 2020, 1, 030032.	1.2	1
86	Hybrid structures for Achilles' tendon repair. Polymers for Advanced Technologies, 0, , .	1.6	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, , .	0.3	0