Paula A.A.P. Marques

List of Publications by Citations

111 papers	4,154 citations	31 h-index	63 g-index
117 ext. papers	4,684 ext. citations	6.2 avg, IF	5.46 L-index

#	Paper	IF	Citations
111	Surface Modification of Graphene Nanosheets with Gold Nanoparticles: The Role of Oxygen Moieties at Graphene Surface on Gold Nucleation and Growth. *Chemistry of Materials*, **2009**, 21, 4796-4802	9.6	763
110	Graphene oxide modified with PMMA via ATRP as a reinforcement filler. *Journal of Materials Chemistry*, **2010**, 20, 9927		381
109	Antibacterial activity of nanocomposites of silver and bacterial or vegetable cellulosic fibers. *Acta Biomaterialia*, **2009**, 5, 2279-89	10.8	234
108	Nano-graphene oxide: a potential multifunctional platform for cancer therapy. *Advanced Healthcare Materials*, **2013**, 2, 1072-90	10.1	128
107	Endocytic mechanisms of graphene oxide nanosheets in osteoblasts, hepatocytes and macrophages. *ACS Applied Materials & Interfaces*, **2014**, 6, 13697-706	9.5	125
106	The effects of graphene oxide nanosheets localized on F-actin filaments on cell-cycle alterations. *Biomaterials*, **2013**, 34, 1562-9	15.6	120
105	Phase change materials and carbon nanostructures for thermal energy storage: A literature review. *Renewable and Sustainable Energy Reviews*, **2017**, 79, 1212-1228	16.2	119
104	Titanium dioxide/cellulose nanocomposites prepared by a controlled hydrolysis method. *Composites Science and Technology*, **2006**, 66, 1038-1044	8.6	108
103	Graphene oxide versus functionalized carbon nanotubes as a reinforcing agent in a PMMA/HA bone cement. *Nanoscale*, **2012**, 4, 2937-45	7.7	100
102	Surface modification of cellulosic fibres for multi-purpose TiO2 based nanocomposites. *Composites Science and Technology*, **2009**, 69, 1051-1056	8.6	95
101	An overview of graphene materials: Properties, applications and toxicity on aquatic environments. *Science of the Total Environment*, **2018**, 631-632, 1440-1456	10.2	92
100	Novel SiO2/cellulose nanocomposites obtained by in situ synthesis and via polyelectrolytes assembly. *Composites Science and Technology*, **2008**, 68, 1088-1093	8.6	86
99	Silver-bacterial cellulosic sponges as active SERS substrates. *Journal of Raman Spectroscopy*, **2008**, 39, 439-443	2.3	83
98	Superhydrophobic cellulose nanocomposites. *Journal of Colloid and Interface Science*, **2008**, 324, 42-6	9.3	82
97	Breakdown into nanoscale of graphene oxide: confined hot spot atomic reduction and fragmentation. *Scientific Reports*, **2014**, 4, 6735	4.9	79
96	Optimized graphene oxide foam with enhanced performance and high selectivity for mercury removal from water. *Journal of Hazardous Materials*, **2016**, 301, 453-61	12.8	70
95	Electrostatic assembly and growth of gold nanoparticles in cellulosic fibres. *Journal of Colloid and Interface Science*, **2007**, 312, 506-12	9.3	69

94	TiO2/graphene and TiO2/graphene oxide nanocomposites for photocatalytic applications: A computer modeling and experimental study. *Composites Part B: Engineering*, **2018**, 145, 39-46	10	66
93	TiO2/graphene oxide immobilized in P(VDF-TrFE) electrospun membranes with enhanced visible-light-induced photocatalytic performance. *Journal of Materials Science*, **2016**, 51, 6974-6986	4.3	59
92	Growth, Structural, and Optical Characterization of ZnO-Coated Cellulosic Fibers. *Crystal Growth and Design*, **2009**, 9, 386-390	3.5	55
91	Synthesis and characterization of new CaCO3/cellulose nanocomposites prepared by controlled hydrolysis of dimethylcarbonate. *Carbohydrate Polymers*, **2010**, 79, 1150-1156	10.3	50
90	The fluorapatite-anorthite system in biomedicine. *Biomaterials*, **2003**, 24, 1317-31	15.6	50
89	In vitro evaluation of graphene oxide nanosheets on immune function. *Journal of Colloid and Interface Science*, **2014**, 432, 221-8	9.3	48
88	Cell uptake survey of pegylated nanographene oxide. *Nanotechnology*, **2012**, 23, 465103	3.4	46
87	Inorganic plasma with physiological CO2/HCO3- buffer. *Biomaterials*, **2003**, 24, 1541-8	15.6	46
86	Mineralisation of two phosphate ceramics in HBSS: role of albumin. *Biomaterials*, **2003**, 24, 451-60	15.6	41
85	Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets. *Nanoscale*, **2010**, 2, 700-8	7.7	38
84	Mimicking nature: Fabrication of 3D anisotropic electrospun polycaprolactone scaffolds for cartilage tissue engineering applications. *Composites Part B: Engineering*, **2018**, 154, 99-107	10	36
83	Graphene: The Missing Piece for Cancer Diagnosis?. *Sensors*, **2016**, 16,	3.8	35
82	Integrated biomimetic carbon nanotube composites for in vivo systems. *Nanoscale*, **2010**, 2, 2855-63	7.7	32
81	Agglomerated cork: A way to tailor its mechanical properties. *Composite Structures*, **2017**, 178, 277-287	5.3	31
80	Graphene oxide and hydroxyapatite as fillers of polylactic acid nanocomposites: preparation and characterization. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 6686-92	1.3	30
79	Selective two-photon absorption in carbon dots: a piece of the photoluminescence emission puzzle. *Nanoscale*, **2018**, 10, 12505-12514	7.7	28
78	Evaluation of the in vitro biocompatibility of PMMA/high-load HA/carbon nanostructures bone cement formulations. *Journal of Materials Science: Materials in Medicine*, **2013**, 24, 2787-96	4.5	27
77	Unveiling the chemistry behind the green synthesis of metal nanoparticles. *ChemSusChem*, **2014**, 7, 2704-31	8.1	26

76	The effect of ball milling time and rotational speed on ultra high molecular weight polyethylene reinforced with multiwalled carbon nanotubes. *Polymer Composites*, **2016**, 37, 1128-1136	3	26
75	Electrostatic self-assembled graphene oxide-collagen scaffolds towards a three-dimensional microenvironment for biomimetic applications. *RSC Advances*, **2016**, 6, 49039-49051	3.7	26
74	Mineralisation of two calcium phosphate ceramics in biological model fluids. *Journal of Materials Chemistry*, **2003**, 13, 1484-1490		25
73	Bacterial cellulose/graphene oxide aerogels with enhanced dimensional and thermal stability. *Carbohydrate Polymers*, **2020**, 230, 115598	10.3	24
72	Demystifying the morphology and size control on the biosynthesis of gold nanoparticles using Eucalyptus globulus bark extract. *Industrial Crops and Products*, **2017**, 105, 83-92	5.9	23
71	Three-dimensional graphene oxide: a promising green and sustainable catalyst for oxidation reactions at room temperature. *Chemical Communications*, **2014**, 50, 7673-6	5.8	23
70	Electrospinning of bioactive polycaprolactone-gelatin nanofibres with increased pore size for cartilage tissue engineering applications. *Journal of Biomaterials Applications*, **2020**, 35, 471-484	2.9	22
69	Local mechanical and electromechanical properties of the P(VDF-TrFE)-graphene oxide thin films. *Applied Surface Science*, **2017**, 421, 42-51	6.7	21
68	Triggering cell death by nanographene oxide mediated hyperthermia. *Nanotechnology*, **2014**, 25, 035101	3.4	19
67	An overview of luminescent bio-based composites. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	19
66	Synthesis and Characterisation of Silicon-Substituted Hydroxyapatite. *Key Engineering Materials*, **2000**, 192-195, 247-250	0.4	19
65	Novel hybrids based on graphene quantum dots covalently linked to glycol corroles for multiphoton bioimaging. *Carbon*, **2020**, 166, 164-174	10.4	19
64	Bio-based synthesis of oxidation resistant copper nanowires using an aqueous plant extract. *Journal of Cleaner Production*, **2019**, 221, 122-131	10.3	18
63	Oxidative stress, metabolic and histopathological alterations in mussels exposed to remediated seawater by GO-PEI after contamination with mercury. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2020**, 243, 110674	2.6	17
62	Graphene oxide/polyethyleneimine aerogel for high-performance mercury sorption from natural waters. *Chemical Engineering Journal*, **2020**, 398, 125587	14.7	16
61	Development of polyurethane foam incorporating phase change material for thermal energy storage. *Journal of Energy Storage*, **2020**, 28, 101177	7.8	16
60	Biocompatible hybrids based on nanographene oxide covalently linked to glycolporphyrins: Synthesis, characterization and biological evaluation. *Carbon*, **2018**, 135, 202-214	10.4	15
59	Functionalized Graphene Nanocomposites **2011**,		15

58	3D Reduced Graphene Oxide Scaffolds with a Combinatorial Fibrous-Porous Architecture for Neural Tissue Engineering. *ACS Applied Materials & Interfaces*, **2020**, 12, 38962-38975	9.5	15
57	Characterization and physical properties of aluminium foam–polydimethylsiloxane nanocomposite hybrid structures. *Composite Structures*, **2019**, 230, 111521	5.3	14
56	TiO2–GO nanocomposite as an efficient catalyst to photodegrade formalin in aquaculture's waters, under solar light. *Environmental Science: Water Research and Technology*, **2020**, 6, 1018-1027	4.2	14
55	Graphene-Enriched Agglomerated Cork Material and Its Behaviour under Quasi-Static and Dynamic Loading. *Materials*, **2019**, 12,	3.5	13
54	Reductive nanometric patterning of graphene oxide paper using electron beam lithography. *Carbon* , **2018**, 129, 63-75	10.4	13
53	Highly Electroconductive Nanopapers Based on Nanocellulose and Copper Nanowires: A New Generation of Flexible and Sustainable Electrical Materials. *ACS Applied Materials & Interfaces*, **2020**, 12, 34208-34216	9.5	11
52	Photoluminescent bimetallic-3-hydroxypicolinate/graphene oxide nanocomposite. *RSC Advances*, **2012**, 2, 9443	3.7	11
51	Direct nucleation of silver nanoparticles on graphene sheet. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 6731-6	1.3	11
50	Self-assembled diphenylalanine peptide microtubes covered by reduced graphene oxide/spiky nickel nanocomposite: An integrated nanobiomaterial for multifunctional applications. *Materials and Design*, **2018**, 142, 149-157	8.1	10
49	Biochemical and behavioral responses of zebrafish embryos to magnetic graphene/nickel nanocomposites. *Ecotoxicology and Environmental Safety*, **2019**, 186, 109760	7	10
48	Improving hydraulic permeability, mechanical properties, and chemical functionality of cellulose acetate-based membranes by co-polymerization with tetraethyl orthosilicate and 3-(aminopropyl)triethoxysilane. *Carbohydrate Polymers*, **2021**, 261, 117813	10.3	10
47	Characterization of Graphene Oxide Coatings onto Optical Fibers for Sensing Applications. *Materials Today: Proceedings*, **2015**, 2, 171-177	1.4	9
46	Multifunctional hybrid structures made of open-cell aluminum foam impregnated with cellulose/graphene nanocomposites. *Carbohydrate Polymers*, **2020**, 238, 116197	10.3	9
45	Mineralisation of bioceramics in simulated plasma with physiological CO2/HCO3 buffer and albumin. *Journal of Materials Chemistry*, **2004**, 14, 1861-1866		9
44	Green Graphene-Chitosan Sorbent Materials for Mercury Water Remediation. *Nanomaterials*, **2020**, 10,	5.4	9
43	Hybrid Structures Made of Polyurethane/Graphene Nanocomposite Foams Embedded within Aluminum Open-Cell Foam. *Metals*, **2020**, 10, 768	2.3	8
42	Characterization of commercial graphene-based materials for application in thermoplastic nanocomposites. *Materials Today: Proceedings*, **2020**, 20, 383-390	1.4	8
41	Preparation and Characterization of Graphene Oxide Aerogels: Exploring the Limits of Supercritical CO Fabrication Methods. *Chemistry - A European Journal*, **2018**, 24, 15903-15911	4.8	8

40	Structural Interpretation of the In Vitro Reactivity of SiO2-MgO-Na2O Glasses. *Key Engineering Materials*, **2003**, 240-242, 217-220	0.4	8
39	Microfabrication of a biomimetic arcade-like electrospun scaffold for cartilage tissue engineering applications. *Journal of Materials Science: Materials in Medicine*, **2020**, 31, 69	4.5	8
38	Mechanical, Thermal, and Acoustic Properties of Aluminum Foams Impregnated with Epoxy/Graphene Oxide Nanocomposites. *Metals*, **2019**, 9, 1214	2.3	8
37	Pressure dependent luminescence in titanium dioxide particles modified with europium ions. *Sensors and Actuators B: Chemical*, **2016**, 234, 137-144	8.5	7
36	Development of structural layers PVC incorporating phase change materials for thermal energy storage. *Applied Thermal Engineering*, **2020**, 179, 115707	5.8	7
35	The Role of Temperature on the Impact of Remediated Water towards Marine Organisms. *Water (Switzerland)*, **2020**, 12, 2148	3	7
34	Experimental and numerical analysis of the thermal performance of polyurethane foams panels incorporating phase change material. *Energy*, **2021**, 216, 119213	7.9	7
33	Thermal characterization of polyurethane foams with phase change material. *Ciência & Tecnologia Dos Materiais*, **2017**, 29, 1-7		6
32	Do biomedical engineers dream of graphene sheets?. *Biomaterials Science*, **2019**, 7, 1228-1239	7.4	6
31	Graphene Derivatives in Biopolymer-Based Composites for Food Packaging Applications. *Nanomaterials*, **2020**, 10,	5.4	6
30	Calcium and Magnesium Phosphates: Normal and Pathological Mineralization71-123		5
29	Boosting in vitro cartilage tissue engineering through the fabrication of polycaprolactone-gelatin 3D scaffolds with specific depth-dependent fiber alignments and mechanical stimulation. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 117, 104373	4.1	5
28	Polysaccharide Based Hybrid Materials. *Springer Briefs in Molecular Science*, **2018**,	0.6	5
27	Biotoxicity study of bone cement based on a functionalised multi-walled carbon nanotube-reinforced PMMA/HAp nanocomposite. *International Journal of Nano and Biomaterials*, **2009**, 2, 442	0.2	4
26	Ultraviolet Functionalization of Electrospun Scaffolds to Activate Fibrous Runways for Targeting Cell Adhesion. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 159	5.8	3
25	A Multifactorial Approach to Untangle Graphene Oxide (GO) Nanosheets Effects on Plants: Plant Growth-Promoting Bacteria Inoculation, Bacterial Survival, and Drought. *Nanomaterials*, **2021**, 11,	5.4	3
24	Preparation, Stability and Local Piezoelectrical Properties of P(VDF-TrFE)/Graphene Oxide Composite Fibers. *Journal of Carbon Research*, **2019**, 5, 48	3.3	2
23	Local nanoelectromechanical properties of multiferroics Gd-doped BiFeO3-BaTiO3 solid solution. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 6639-44	1.3	2

22	Hydrogencarbonate as a Biological Buffer in Simulated Plasma. *Key Engineering Materials*, **2000**, 192-195, 27-30	0.4	2
21	Graphene-based Materials in Health and Environment. *Carbon Nanostructures*, **2016**,	0.6	2
20	High affinity of 3D spongin scaffold towards Hg(II) in real waters. *Journal of Hazardous Materials*, **2021**, 407, 124807	12.8	2
19	Water softening using graphene oxide/biopolymer hybrid nanomaterials. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105045	6.8	2
18	Multiscale Sensing of Bone-Implant Loosening for Multifunctional Smart Bone Implants: Using Capacitive Technologies for Precision Controllability.. *Sensors*, **2022**, 22,	3.8	2
17	Nanoengineered nickel/reduced graphene oxide composites: Control of interfacial nanostructure for tunable electrophysical properties. *Applied Surface Science*, **2019**, 498, 143781	6.7	1
16	Surface Modification of Natural and Synthetic Polymeric Fibers for TiO2-Based Nanocomposites **2015**, 191-220		1
15	Automated high-throughput screening of carbon nanotube-based bio-nanocomposites for bone cement applications. *Pure and Applied Chemistry*, **2011**, 83, 2063-2069	2.1	1
14	Ceramics In Vitro Mineralisation Protocols: a Supersaturation Problem. *Key Engineering Materials*, **2003**, 254-256, 143-146	0.4	1
13	Benefits in the Macrophage Response Due to Graphene Oxide Reduction by Thermal Treatment. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
12	How efficient is graphene-based nanocomposite to adsorb Hg from seawater. A laboratory assay to assess the toxicological impacts induced by remediated water towards marine bivalves. *Chemosphere*, **2021**, 277, 130160	8.4	1
11	Potentialities of polymeric electrospun membranes decorated with silver nanoparticles and graphene oxide for biodetection by SERS. *Ciência & Tecnologia Dos Materiais*, **2014**, 26, 102-107		0
10	Effects of graphene oxide nanosheets in the polychaete Hediste diversicolor: Behavioural, physiological and biochemical responses.. *Environmental Pollution*, **2022**, 118869	9.3	0
9	Bio-electrospraying assessment toward in situ chondrocyte-laden electrospun scaffold fabrication.. *Journal of Tissue Engineering*, **2022**, 13, 20417314211069342	7.5	0
8	Biomimetic Graphene/Spongin Scaffolds for Improved Osteoblasts Bioactivity via Dynamic Mechanical Stimulation. *Macromolecular Bioscience*, **2021**, 22, e2100311	5.5	0
7	Stimulus Responsive Graphene Scaffolds for Tissue Engineering. *Carbon Nanostructures*, **2016**, 219-256	0.6	0
6	Multi-layered electrospinning and electrospraying approach: Effect of polymeric supplements on chondrocyte suspension.. *Journal of Biomaterials Applications*, **2021**, 8853282211064403	2.9	0
5	Supramolecular Graphene-Based Systems for Drug Delivery **2019**, 443-479		

4	Graphene Oxide: A Unique Nano-Platform to Build Advanced Multifunctional Composites **2016**, 193-236	
3	Mineralization of Titanium Substrates with Different Structures and Surface Finish, Pre-Incubated in Albumin. *Materials Science Forum*, **2006**, 514-516, 1049-1053	0.4
2	The influence of salinity on the toxicity of remediated seawater.. *Environmental Science and Pollution Research*, **2022**, 1	5.1
1	Polysaccharides-Based Hybrids with Graphene. *Springer Briefs in Molecular Science*, **2018**, 69-93	0.6