Filipe V Ferreira

List of Publications by Citations

36 papers	1,395 citations	19 h-index	36 g-index
36 ext. papers	1,732 ext. citations	4.5 avg, IF	5.07 L-index

#	Paper	IF	Citations
36	An overview on properties and applications of poly(butylene adipate-co-terephthalate)–PBAT based composites. *Polymer Engineering and Science*, **2019**, 59, E7-E15	2.3	137
35	Mechanical, rheological and degradation properties of PBAT nanocomposites reinforced by functionalized cellulose nanocrystals. *European Polymer Journal*, **2017**, 97, 356-365	5.2	112
34	How do cellulose nanocrystals affect the overall properties of biodegradable polymer nanocomposites: A comprehensive review. *European Polymer Journal*, **2018**, 108, 274-285	5.2	104
33	Isolation and surface modification of cellulose nanocrystals from sugarcane bagasse waste: From a micro- to a nano-scale view. *Applied Surface Science*, **2018**, 436, 1113-1122	6.7	94
32	Functionalized graphene oxide as reinforcement in epoxy based nanocomposites. *Surfaces and Interfaces*, **2018**, 10, 100-109	4.1	80
31	Porous nanocellulose gels and foams: Breakthrough status in the development of scaffolds for tissue engineering. *Materials Today*, **2020**, 37, 126-141	21.8	76
30	Polymer Composites Reinforced with Natural Fibers and Nanocellulose in the Automotive Industry: A Short Review. *Journal of Composites Science*, **2019**, 3, 51	3	73
29	Functionalized cellulose nanocrystals as reinforcement in biodegradable polymer nanocomposites. *Polymer Composites*, **2018**, 39, E9-E29	3	73
28	Effects of octadecylamine functionalization of carbon nanotubes on dispersion, polarity, and mechanical properties of CNT/HDPE nanocomposites. *Journal of Materials Science*, **2018**, 53, 14311-14327	4.3	70
27	Dodecylamine functionalization of carbon nanotubes to improve dispersion, thermal and mechanical properties of polyethylene based nanocomposites. *Applied Surface Science*, **2017**, 410, 267-277	6.7	67
26	Correlation of surface treatment, dispersion and mechanical properties of HDPE/CNT nanocomposites. *Applied Surface Science*, **2016**, 389, 921-929	6.7	54
25	Nanocellulose/bioactive glass cryogels as scaffolds for bone regeneration. *Nanoscale*, **2019**, 11, 19842-19849	7.7	51
24	Carbon nanotube functionalized with dodecylamine for the effective dispersion in solvents. *Applied Surface Science*, **2015**, 357, 2154-2159	6.7	47
23	Functionalization of Multi-Walled Carbon Nanotube and Mechanical Property of Epoxy-Based Nanocomposite. *Journal of Aerospace Technology and Management*, **2015**, 7, 289-293	0.7	45
22	Biodegradable PBAT-Based Nanocomposites Reinforced with Functionalized Cellulose Nanocrystals from Pseudobombax munguba: Rheological, Thermal, Mechanical and Biodegradability Properties. *Journal of Polymers and the Environment*, **2019**, 27, 757-766	4.5	36
21	Influence of carbon nanotube concentration and sonication temperature on mechanical properties of HDPE/CNT nanocomposites. *Fullerenes Nanotubes and Carbon Nanostructures*, **2017**, 25, 531-539	1.8	33
20	Functionalizing Graphene and Carbon Nanotubes. *SpringerBriefs in Applied Sciences and Technology*, **2016**,	0.4	28

19	Silver nanoparticles coated with dodecanethiol used as fillers in non-cytotoxic and antifungal PBAT surface based on nanocomposites. *Materials Science and Engineering C*, **2019**, 98, 800-807	8.3	27
18	Environmentally friendly polymer composites based on PBAT reinforced with natural fibers from the amazon forest. *Polymer Composites*, **2019**, 40, 3351-3360	3	23
17	LDPE-based composites reinforced with surface modified cellulose fibres: 3D morphological and morphometrical analyses to understand the improved mechanical performance. *European Polymer Journal*, **2019**, 117, 105-113	5.2	19
16	Cellulose nanocrystal-based poly(butylene adipate-co-terephthalate) nanocomposites covered with antimicrobial silver thin films. *Polymer Engineering and Science*, **2019**, 59, E356	2.3	19
15	How Do CNT affect the branch and crosslink reactions in CNT-epoxy. *Materials Research Express*, **2017**, 4, 105101	1.7	18
14	Evaluation of effectiveness of 45S5 bioglass doped with niobium for repairing critical-sized bone defect in in vitro and in vivo models. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 446-457	5.4	17
13	A Combined Computational and Experimental Study on the Polymerization of ε-Caprolactone. *Industrial & Engineering Chemistry Research*, **2018**, 57, 13387-13395	3.9	16
12	Functionalization of Carbon Nanotube and Applications. *SpringerBriefs in Applied Sciences and Technology*, **2016**, 31-61	0.4	14
11	Correlation between water absorption and mechanical properties of polyamide 6 filled with layered double hydroxides (LDH). *Materials Research Express*, **2018**, 5, 065004	1.7	13
10	Ultrathin polymer fibers hybridized with bioactive ceramics: A review on fundamental pathways of electrospinning towards bone regeneration. *Materials Science and Engineering C*, **2021**, 123, 111853	8.3	12
9	Functionalization of Graphene and Applications. *SpringerBriefs in Applied Sciences and Technology*, **2016**, 1-29	0.4	10
8	Synthesis, Characterization, and Applications of Carbon Nanotubes **2019**, 1-45		10
7	In vitro and in vivo osteogenic potential of niobium-doped 45S5 bioactive glass: A comparative study. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 1372-1387	3.5	10
6	Electrospun Nanofibrous Architectures of Thrombin-Loaded Poly(ethylene oxide) for Faster Wound Clotting.. *ACS Applied Bio Materials*, **2021**, 4, 5240-5250	4.1	2
5	Modeling of Ring Opening Polymerization: A short review with insights on how to develop the method of moments. *Chemical Engineering Science*, **2021**, 246, 116934	4.4	2
4	Synthesis and analysis of phase segregation of polystyrene-block-poly(methyl methacrylate) copolymer obtained by Steglich esterification from semitelechelic blocks of polystyrene and poly(methyl methacrylate). *Journal of Applied Polymer Science*, **2020**, 137, 49416	2.9	2
3	Processing of nanocellulose-based composites **2020**, 431-448		1
2	Engineering the surface of carbon-based nanomaterials for dispersion control in organic solvents or polymer matrices. *Surfaces and Interfaces*, **2021**, 24, 101121	4.1	0

1	Cellulose nanocrystals as initiator of ring-opening polymerization of ε-caprolactone: Mathematical modeling and experimental verification. *European Polymer Journal*, **2022**, 170, 111171	5.2	0