

# Guilherme M O Barra

## List of Publications by Citations

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105  
papers

2,876  
citations

31  
h-index

49  
g-index

115  
ext. papers

3,248  
ext. citations

3.5  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
105	Influence of fiber surface treatment and length on physico-chemical properties of short random banana fiber-reinforced castor oil polyurethane composites. <i>Polymer Testing</i> , <b>2011</b> , 30, 833-840	4.5	148
104	Dielectric behavior of polyaniline synthesized by different techniques. <i>European Polymer Journal</i> , <b>2006</b> , 42, 676-686	5.2	147
103	Chemical in situ polymerization of polypyrrole on bacterial cellulose nanofibers. <i>Synthetic Metals</i> , <b>2011</b> , 161, 106-111	3.6	139
102	Electrically conducting nanocomposites: preparation and properties of polyaniline (PANI)-coated bacterial cellulose nanofibers (BC). <i>Cellulose</i> , <b>2012</b> , 19, 1645-1654	5.5	108
101	Electrical, rheological and electromagnetic interference shielding properties of thermoplastic polyurethane/carbon nanotube composites. <i>Polymer International</i> , <b>2013</b> , 62, 1477-1484	3.3	84
100	Processing and characterization of conductive composites based on poly(styrene-b-ethylene-ran-butylene-b-styrene) (SEBS) and carbon additives: A comparative study of expanded graphite and carbon black. <i>Composites Part B: Engineering</i> , <b>2016</b> , 84, 236-247	10	80
99	Structure and properties of polypyrrole/bacterial cellulose nanocomposites. <i>Carbohydrate Polymers</i> , <b>2013</b> , 94, 655-62	10.3	76
98	Electric, dielectric, and dynamic mechanical behavior of carbon black/styrene-butadiene-styrene composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2003</b> , 41, 2983-2997	2.6	73
97	Electrically pressure sensitive poly(vinylidene fluoride)/polypyrrole electrospun mats. <i>RSC Advances</i> , <b>2014</b> , 4, 15749-15758	3.7	70
96	Maleic Anhydride Grafting on EPDM: Qualitative and Quantitative Determination. <i>Journal of the Brazilian Chemical Society</i> , <b>1999</b> , 10, 31-34	1.5	68
95	Parameters of color, transparency, water solubility, wettability and surface free energy of chitosan/hydroxypropylmethylcellulose (HPMC) films plasticized with sorbitol. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 619-623	8.3	63
94	Polyaniline/thermoplastic polyurethane blends: Preparation and evaluation of electrical conductivity. <i>European Polymer Journal</i> , <b>2007</b> , 43, 4565-4572	5.2	63
93	Electromagnetic interference shielding effectiveness of ABS carbon-based composites manufactured via fused deposition modelling. <i>Materials Today Communications</i> , <b>2018</b> , 15, 70-80	2.5	58
92	Thermoplastic elastomer/polyaniline blends: Evaluation of mechanical and electromechanical properties. <i>Polymer Testing</i> , <b>2008</b> , 27, 886-892	4.5	55
91	Conducting SBS block copolymer/polyaniline blends prepared by mechanical mixing. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 626-633	2.9	53
90	Conductive polyaniline/SBS blends prepared in solution. <i>Synthetic Metals</i> , <b>2001</b> , 123, 443-449	3.6	53
89	Self-supported bacterial cellulose polyaniline conducting membrane as electromagnetic interference shielding material: effect of the oxidizing agent. <i>Cellulose</i> , <b>2014</b> , 21, 1409-1418	5.5	51

88	Electromagnetic interference shielding and electrical properties of nanocomposites based on poly (styrene-b-ethylene-ran-butylene-b-styrene) and carbon nanotubes. <i>European Polymer Journal</i> , <b>2016</b> , 77, 43-53	5.2	49
87	X-ray photoelectron spectroscopy and electrical conductivity of polyaniline doped with dodecylbenzenesulfonic acid as a function of the synthetic method. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 556-565	2.9	49
86	Hybrid nanocomposites of thermoplastic elastomer and carbon nanoadditives for electromagnetic shielding. <i>European Polymer Journal</i> , <b>2017</b> , 88, 328-339	5.2	47
85	Electrical and rheological percolation in poly(vinylidene fluoride)/multi-walled carbon nanotube nanocomposites. <i>Polymer International</i> , <b>2011</b> , 60, 430-435	3.3	46
84	Electrically conductive, melt-processed polyaniline/EVA blends. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 82, 114-123	2.9	44
83	Neuronal cells behavior on polypyrrole coated bacterial nanocellulose three-dimensional (3D) scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2013</b> , 24, 1368-77	3.5	43
82	Polyaniline-coated coconut fibers: Structure, properties and their use as conductive additives in matrix of polyurethane derived from castor oil. <i>Polymer Testing</i> , <b>2014</b> , 38, 18-25	4.5	42
81	Processing, characterization and properties of conducting polyaniline-sulfonated SEBS block copolymers. <i>European Polymer Journal</i> , <b>2004</b> , 40, 2017-2023	5.2	41
80	Development of a novel pressure sensing material based on polypyrrole-coated electrospun poly(vinylidene fluoride) fibers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2014</b> , 179, 52-59	3.1	37
79	Epoxy coating based on montmorillonite-polypyrrole: Electrical properties and prospective application on corrosion protection of steel. <i>Progress in Organic Coatings</i> , <b>2018</b> , 114, 201-207	4.8	37
78	Electrospinning of doped and undoped-polyaniline/poly(vinylidene fluoride) blends. <i>Synthetic Metals</i> , <b>2016</b> , 213, 34-41	3.6	35
77	Polypyrrole nanoparticles coated amorphous short silica fibers: Synthesis and characterization. <i>Polymer Testing</i> , <b>2012</b> , 31, 971-977	4.5	34
76	Solution-cast blends of polyaniline-DBSA with EVA copolymers. <i>Synthetic Metals</i> , <b>2002</b> , 130, 239-245	3.6	33
75	Production of montmorillonite/polypyrrole nanocomposites through in situ oxidative polymerization of pyrrole: Effect of anionic and cationic surfactants on structure and properties. <i>Applied Clay Science</i> , <b>2015</b> , 104, 160-167	5.2	32
74	Biofilm behavior on sulfonated poly(ether-ether-ketone) (sPEEK). <i>Materials Science and Engineering C</i> , <b>2017</b> , 70, 456-460	8.3	31
73	Phosphonium-Based ionic liquid as dispersing agent for MWCNT in melt-mixing polystyrene blends: Rheology, electrical properties and EMI shielding effectiveness. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 189, 162-168	4.4	29
72	Development of Sustainable Thermosets from Cardanol-based Epoxy Prepolymer and Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 8429-8438	8.3	29
71	Influence of plasticizers (DOP and CNSL) on mechanical and electrical properties of SBS/polyaniline blends. <i>Polymer</i> , <b>2006</b> , 47, 7548-7553	3.9	29

70	Composite resin reinforced with pre-tensioned glass fibers. Influence of prestressing on flexural properties. <i>Dental Materials</i> , <b>2010</b> , 26, 118-25	5.7	27
69	Poly(vinylidene fluoride-co-hexafluoropropylene)/polyaniline blends assisted by phosphonium $\text{[P}^+\text{]}$ Based ionic liquid: Dielectric properties and $\text{[P}^+\text{]}$ phase formation. <i>European Polymer Journal</i> , <b>2015</b> , 73, 65-74	5.2	26
68	Effect of double percolation on the electrical properties and electromagnetic interference shielding effectiveness of carbon-black-loaded polystyrene/ethylene vinyl acetate copolymer blends. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	26
67	Dual-role of phosphonium $\text{[P}^+\text{]}$ Based ionic liquid in epoxy/MWCNT systems: Electric, rheological behavior and electromagnetic interference shielding effectiveness. <i>European Polymer Journal</i> , <b>2016</b> , 84, 77-88	5.2	26
66	Simulation of percolation threshold and electrical conductivity in composites filled with conductive particles: Effect of polydisperse particle size distribution. <i>Polymer Composites</i> , <b>2016</b> , 37, 61-69	3	25
65	Electromagnetic interference shielding effectiveness and microwave absorption properties of thermoplastic polyurethane/montmorillonite-polypyrrole nanocomposites. <i>Polymers for Advanced Technologies</i> , <b>2018</b> , 29, 1377-1384	3.2	25
64	Ionic liquids $\text{[P}^+\text{]}$ $\text{[P}^+\text{]}$ combination: an innovative way to improve mechanical behaviour and water vapour permeability of eco-designed biodegradable polymer blends. <i>RSC Advances</i> , <b>2015</b> , 5, 1989-1998	3.7	25
63	Conducting polypyrrole-coated banana fiber composites: Preparation and characterization. <i>Polymer Composites</i> , <b>2013</b> , 34, 537-543	3	24
62	Electrically Conductive Polyaniline-Coated Electrospun Poly(Vinylidene Fluoride) Mats. <i>Frontiers in Materials</i> , <b>2015</b> , 2,	4	24
61	Conductive heterogeneous blend composites of PP/PA12 filled with ionic liquids treated-CNT. <i>Polymer Testing</i> , <b>2019</b> , 74, 187-195	4.5	24
60	Flexible PEDOT-nanocellulose composites produced by in situ oxidative polymerization for passive components in frequency filters. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 8062-8067	2.7 <sup>1</sup>	23
59	Fabrication of Ti 3 SiC 2 -based composites via three-dimensional printing: Influence of processing on the final properties. <i>Ceramics International</i> , <b>2016</b> , 42, 9557-9564	5.1	23
58	Thermal Conductivity of Covalent Organic Frameworks as a Function of Their Pore Size. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27247-27252	3.8	23
57	Preparation and characterization of poly(ether ether ketone) derivatives. <i>Journal of the Brazilian Chemical Society</i> , <b>2008</b> , 19,	1.5	23
56	Conducting melt blending of polystyrene and EVA copolymer with carbon nanotube assisted by phosphonium-based ionic liquid. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45564	2.9	23
55	Rapid Prototyping of Efficient Electromagnetic Interference Shielding Polymer Composites via Fused Deposition Modeling. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 37	2.6	22
54	Crosslinked chitosan/poly (vinyl alcohol) blends with proton conductivity characteristic. <i>Journal of the Brazilian Chemical Society</i> , <b>2010</b> , 21, 1692-1698	1.5	20
53	Chemical, microscopic, and microbiological analysis of a functionalized poly-ether-ether-ketone-embedding antibiofilm compounds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 3015-3020	5.4	20

52	Electrically conductive composites of polyurethane derived from castor oil with polypyrrole-coated peach palm fibers. <i>Polymer Composites</i> , <b>2017</b> , 38, 2146-2155	3	19
51	DBSA-CTAB mixture as the surfactant system for the one step inverse emulsion polymerization of aniline: Characterization and blend with epoxy resin. <i>Synthetic Metals</i> , <b>2017</b> , 226, 139-147	3.6	19
50	Hybrid composites of ABS with carbonaceous fillers for electromagnetic shielding applications. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46546	2.9	18
49	Effect of graphene nanoplatelets structure on the properties of acrylonitrile-butadiene-styrene composites. <i>Polymer Composites</i> , <b>2019</b> , 40, E285	3	18
48	SEBS/PPy.DBSA blends: Preparation and evaluation of electromechanical and dynamic mechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 351-359	2.9	17
47	Novel electrically conductive polyurethane/montmorillonite-polypyrrole nanocomposites. <i>EXPRESS Polymer Letters</i> , <b>2015</b> , 9, 945-958	3.4	17
46	Poly (ether ether ketone) derivatives: Synthetic route and characterization of nitrated and sulfonated polymers. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 575-582	8.3	14
45	Hybrid Composites Based on Thermoplastic Polyurethane With a Mixture of Carbon Nanotubes and Carbon Black Modified With Polypyrrole for Electromagnetic Shielding. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	13
44	Efeito do tratamento alcalino de fibras de juta no comportamento mecânico de compósitos de matriz epóxi. <i>Polímeros</i> , <b>2012</b> , 22, 339-344	1.6	12
43	Electromagnetic interference shielding effectiveness of composites based on polyurethane derived from castor oil and nanostructured carbon fillers. <i>Polymer Composites</i> , <b>2019</b> , 40, E78	3	12
42	Conductive Composites Based on Polyurethane and Nanostructured Conductive Filler of Montmorillonite/Polypyrrole for Electromagnetic Shielding Applications. <i>Materials Research</i> , <b>2018</b> , 21,	1.5	12
41	Ionic liquid assisted emulsion polymerization of aniline in organic medium. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 179, 194-203	4.4	11
40	Properties of chemically treated natural amorphous silica fibers as polyurethane reinforcement. <i>Polymer Composites</i> , <b>2006</b> , 27, 582-590	3	11
39	The effect of compressive stress on the electrically resistivity of poly(vinylidene fluoride)/polypyrrole blends. <i>Synthetic Metals</i> , <b>2014</b> , 196, 186-192	3.6	10
38	Conducting Polymeric Composites Based on Intrinsically Conducting Polymers as Electromagnetic Interference Shielding/Microwave Absorbing Materials—A Review. <i>Journal of Composites Science</i> , <b>2021</b> , 5, 173	3	10
37	Morphology, mechanical properties and electromagnetic shielding effectiveness of poly(styrene-b-ethylene-ran-butylene-b-styrene)/carbon nanotube nanocomposites: effects of maleic anhydride, carbon nanotube loading and processing method. <i>Polymer International</i> , <b>2018</b> , 67, 1229-1240	3.3	9
36	Development of Poly (butylene adipate-co-terephthalate) Filled with Montmorillonite-Polypyrrole for Pressure Sensor Applications. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	8
35	A comparative study of aligned and random electrospun mats of thermoplastic polyurethane and conductive additives based on polypyrrole. <i>Polymer Testing</i> , <b>2018</b> , 70, 486-497	4.5	8

34	Mechanical and Thermo-Physical Properties of Short Glass Fiber Reinforced Polybutylene Terephthalate upon Aging in Lubricant/Refrigerant Mixture. <i>Materials Research</i> , <b>2016</b> , 19, 1310-1318	1.5	8
33	Fabrication and thermal analysis of epoxy resin-carbon fiber fabric composite plate-coil heat exchangers. <i>Applied Thermal Engineering</i> , <b>2017</b> , 127, 1451-1460	5.8	7
32	Synthesis of Conductive PPy/SiO <sub>2</sub> Aerogels Nanocomposites by In Situ Polymerization of Pyrrole. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-6	3.2	7
31	Obtenç�o de nanocomp�ositos condutores de montmorilonita/polipirrol: Efeito da incorpora�o do surfactante na estrutura e propriedades. <i>Polimeros</i> , <b>2014</b> , 24, 57-62	1.6	7
30	Evaluation of the properties of iron oxide-filled castor oil polyurethane. <i>Materials Research</i> , <b>2013</b> , 16, 65-70	1.5	7
29	Poly(vinylidene fluoride)/thermoplastic polyurethane flexible and 3D printable conductive composites. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50305	2.9	7
28	Electrospun fibrous membranes of poly (lactic-co-glycolic acid) with �r calcium phosphate for guided bone regeneration application. <i>Polymer Testing</i> , <b>2020</b> , 86, 106489	4.5	6
27	Conducting Materials Based on Epoxy/Graphene Nanoplatelet Composites With Microwave Absorbing Properties: Effect of the Processing Conditions and Ionic Liquid. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	6
26	Expanded graphite as a multifunctional filler for polymer nanocomposites <b>2015</b> , 245-261		6
25	Blendas de poliamida 6/elast�mero: propriedades e influ�ncia da adi�o de agente compatibilizante. <i>Polimeros</i> , <b>2003</b> , 13, 95-101	1.6	6
24	Estudo das Propriedades de Comp�ositos de Polianilina e Resina Epox�dica. <i>Polimeros</i> , <b>2001</b> , 11, 149-157	1.6	6
23	A rapid and environmentally friendly analytical method based on conductive polymer as extraction phase for disposable pipette extraction for the determination of hormones and polycyclic aromatic hydrocarbons in river water samples using high-performance liquid chromatography/diode array detection. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 102151	6.8	5
22	Facile approach to produce water-dispersible conducting polyaniline powder. <i>Synthetic Metals</i> , <b>2020</b> , 267, 116451	3.6	5
21	Effect of printing parameters on the electromagnetic shielding efficiency of ABS/carbonaceous-filler composites manufactured via filament fused fabrication. <i>Journal of Manufacturing Processes</i> , <b>2021</b> , 65, 12-19	5	5
20	Ionic liquids as dispersing agents of graphene nanoplatelets in poly(methyl methacrylate) composites with microwave absorbing properties. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49814	2.9	5
19	Comparative study of electrically conductive polymer composites of polyester-based thermoplastic polyurethane matrix with polypyrrole and montmorillonite/polypyrrole additive. <i>Polymer Composites</i> , <b>2020</b> , 41, 2003-2012	3	5
18	Comparative Study of the Structure and Properties of Poly(Vinylidene Fluoride)/Montmorillonite-Polypyrrole Nanocomposites Prepared by Electrospinning and Solution Casting. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	4
17	The Effect of Ionic Liquid on the Development of Polyaniline/Natural Fibers and Biodegradable Conductive Composites Based on Poly(Butylene Adipate-co-Terephthalate). <i>Macromolecular Symposia</i> , <b>2018</b> , 380, 1800101	0.8	4



16	Estudo da viabilidade de utilizaçã de fibras naturais curtas em matrizes de resina epóxi. <i>Revista Materia</i> , <b>2008</b> , 13, 605-610	0.8	4
15	Efeito da modificaçã de superfície de fibras nas propriedades mecânicas de compósitos a base de poli( tereftalato de butileno) reforçado por fibras naturais inorgânicas. <i>Polimeros</i> , <b>2014</b> , 24, 344-350	1.6	4
14	COMPATIBILITY STUDY OF NBR/PVC BLEND WITH GASOLINES AND ETHANOL FUEL. <i>Rubber Chemistry and Technology</i> , <b>2012</b> , 85, 195-206	1.7	3
13	On the synergistic effect of sulfonic functionalization and acidic adhesive conditioning to enhance the adhesion of PEEK to resin-matrix composites. <i>Dental Materials</i> , <b>2021</b> , 37, 741-754	5.7	3
12	Polypyrrole Modified E-Coat Paint for Corrosion Protection of Aluminum AA1200. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	2
11	Monitoring Pyrrol Polymerization Using On-Line Conductivity Measurements and Neural Networks. <i>Macromolecular Symposia</i> , <b>2013</b> , 333, 113-121	0.8	2
10	Rheological Properties of Epoxy/Polypyrrole Coating and its Behavior as EMI Material. <i>Journal of Vinyl and Additive Technology</i> , <b>2020</b> , 26, 348-353	2	2
9	Evaluation of poly(vinylidene fluoride)/carbon black composites, manufactured by selective laser sintering. <i>Polymer Composites</i> , <b>2021</b> , 42, 2457-2468	3	2
8	Evaluation of the aging of elastomeric acrylonitrile-butadiene rubber and ethylene-propylene-diene monomer gaskets used to seal plates heat exchanger. <i>Polymer Engineering and Science</i> ,	2.3	2
7	Effect of temperature and atmosphere on the tribological behavior of a polyether ether ketone composite. <i>Friction</i> , <b>2015</b> , 3, 259-265	5.6	1
6	Master batch approach for developing PVDF/EVA/CNT nanocomposites with co-continuous morphology and improved electrical conductivity. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51164	2.9	0
5	Effects of an industrial graphene grade and surface finishing on water and oxygen permeability, electrical conductivity, and mechanical properties of high-density polyethylene (HDPE) multilayered cast films. <i>Materials Today Communications</i> , <b>2022</b> , 31, 103470	2.5	0
4	Bacterial Nanocellulose as a Structured Platform for Conductive Biopolymers <b>2016</b> , 239-263		
3	Imobilizaçã de proteíñas do veneno do escorpiã Tytius Serrulatus em blenda condutora de Polianilina-Poli(Metacrilato de Hidroxietila). <i>Polimeros</i> , <b>2004</b> , 14, 156-161	1.6	
2	Mechanical behavior of Epoxy-Aluminum composite for rapid tools applications <b>2011</b> , 365-368		
1	The role of the electrical percolation threshold on the anticorrosion performance of an aqueous polyurethane dispersion containing polyaniline. <i>Progress in Organic Coatings</i> , <b>2022</b> , 169, 106921	4.8	