

Guilherme M O Barra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4846458/publications.pdf>

Version: 2024-02-01

114
papers

3,680
citations

109137

35
h-index

149479

56
g-index

115
all docs

115
docs citations

115
times ranked

4203
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2011, 30, 833-840.	2.3	173
2	Dielectric behavior of polyaniline synthesized by different techniques. <i>European Polymer Journal</i> , 2006, 42, 676-686.	2.6	162
3	Chemical in situ polymerization of polypyrrole on bacterial cellulose nanofibers. <i>Synthetic Metals</i> , 2011, 161, 106-111.	2.1	162
4	Electrically conducting nanocomposites: preparation and properties of polyaniline (PANI)-coated bacterial cellulose nanofibers (BC). <i>Cellulose</i> , 2012, 19, 1645-1654.	2.4	126
5	Electrical, rheological and electromagnetic interference shielding properties of thermoplastic polyurethane/carbon nanotube composites. <i>Polymer International</i> , 2013, 62, 1477-1484.	1.6	110
6	Structure and properties of polypyrrole/bacterial cellulose nanocomposites. <i>Carbohydrate Polymers</i> , 2013, 94, 655-662.	5.1	99
7	Electrically pressure sensitive poly(vinylidene fluoride)/polypyrrole electrospun mats. <i>RSC Advances</i> , 2014, 4, 15749-15758.	1.7	99
8	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> , 2016, 84, 236-247.	5.9	94
9	Electromagnetic interference shielding effectiveness of ABS carbon-based composites manufactured via fused deposition modelling. <i>Materials Today Communications</i> , 2018, 15, 70-80.	0.9	90
10	Maleic Anhydride Grafting on EPDM: Qualitative and Quantitative Determination. <i>Journal of the Brazilian Chemical Society</i> , 1999, 10, 31-34.	0.6	85
11	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> , 2009, 29, 619-623.	3.8	77
12	Electric, dielectric, and dynamic mechanical behavior of carbon black/styrene-butadiene-styrene composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 2983-2997.	2.4	75
13	Polyaniline/thermoplastic polyurethane blends: Preparation and evaluation of electrical conductivity. <i>European Polymer Journal</i> , 2007, 43, 4565-4572.	2.6	66
14	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> , 2016, 77, 43-53.	2.6	65
15	Hybrid nanocomposites of thermoplastic elastomer and carbon nanoadditives for electromagnetic shielding. <i>European Polymer Journal</i> , 2017, 88, 328-339.	2.6	64
16	Thermoplastic elastomer/polyaniline blends: Evaluation of mechanical and electromechanical properties. <i>Polymer Testing</i> , 2008, 27, 886-892.	2.3	59
17	Self-supported bacterial cellulose polyaniline conducting membrane as electromagnetic interference shielding material: effect of the oxidizing agent. <i>Cellulose</i> , 2014, 21, 1409-1418.	2.4	59
18	Electrical and rheological percolation in poly(vinylidene fluoride)/multi-walled carbon nanotube nanocomposites. <i>Polymer International</i> , 2011, 60, 430-435.	1.6	56

#	ARTICLE	IF	CITATIONS
19	Conductive polyaniline“SBS blends prepared in solution. <i>Synthetic Metals</i> , 2001, 123, 443-449.	2.1	54
20	Conducting SBS block copolymer-polyaniline blends prepared by mechanical mixing. <i>Journal of Applied Polymer Science</i> , 2001, 80, 626-633.	1.3	53
21	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> , 2001, 80, 556-565.	1.3	51
22	Neuronal cellsâ™ behavior on polypyrrole coated bacterial nanocellulose three-dimensional (3D) scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 1368-1377.	1.9	51
23	Epoxy coating based on montmorillonite-polypyrrole: Electrical properties and prospective application on corrosion protection of steel. <i>Progress in Organic Coatings</i> , 2018, 114, 201-207.	1.9	51
24	Biofilm behavior on sulfonated poly(ether-ether-ketone) (sPEEK). <i>Materials Science and Engineering C</i> , 2017, 70, 456-460.	3.8	49
25	Electrically conductive, melt-processed polyaniline/EVA blends. <i>Journal of Applied Polymer Science</i> , 2001, 82, 114-123.	1.3	48
26	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> , 2014, 179, 52-59.	1.7	48
27	Polyaniline-coated coconut fibers: Structure, properties and their use as conductive additives in matrix of polyurethane derived from castor oil. <i>Polymer Testing</i> , 2014, 38, 18-25.	2.3	48
28	Conducting Polymeric Composites Based on Intrinsically Conducting Polymers as Electromagnetic Interference Shielding/Microwave Absorbing Materialsâ”A Review. <i>Journal of Composites Science</i> , 2021, 5, 173.	1.4	45
29	Processing, characterization and properties of conducting polyaniline-sulfonated SEBS block copolymers. <i>European Polymer Journal</i> , 2004, 40, 2017-2023.	2.6	44
30	Development of Sustainable Thermosets from Cardanol-based Epoxy Prepolymer and Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8429-8438.	3.2	44
31	Thermal Conductivity of Covalent Organic Frameworks as a Function of Their Pore Size. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27247-27252.	1.5	42
32	Electromagnetic interference shielding effectiveness and microwave absorption properties of thermoplastic polyurethane/montmorilloniteâ”polypyrrole nanocomposites. <i>Polymers for Advanced Technologies</i> , 2018, 29, 1377-1384.	1.6	42
33	Electrospinning of doped and undoped-polyaniline/poly(vinylidene fluoride) blends. <i>Synthetic Metals</i> , 2016, 213, 34-41.	2.1	38
34	Phosphoniumâ”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> , 2017, 189, 162-168.	2.0	38
35	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> , 2015, 104, 160-167.	2.6	36
36	Effect of double percolation on the electrical properties and electromagnetic interference shielding effectiveness of carbonâ”blackâ”loaded polystyrene/ethylene vinyl acetate copolymer blends. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	36

#	ARTICLE	IF	CITATIONS
37	Conductive heterogeneous blend composites of PP/PA12 filled with ionic liquids treated-CNT. <i>Polymer Testing</i> , 2019, 74, 187-195.	2.3	36
38	Solution-cast blends of polyaniline-DBSA with EVA copolymers. <i>Synthetic Metals</i> , 2002, 130, 239-245.	2.1	35
39	Influence of plasticizers (DOP and CNSL) on mechanical and electrical properties of SBS/polyaniline blends. <i>Polymer</i> , 2006, 47, 7548-7553.	1.8	35
40	Simulation of percolation threshold and electrical conductivity in composites filled with conductive particles: Effect of polydisperse particle size distribution. <i>Polymer Composites</i> , 2016, 37, 61-69.	2.3	35
41	Rapid Prototyping of Efficient Electromagnetic Interference Shielding Polymer Composites via Fused Deposition Modeling. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 37.	1.3	35
42	Polypyrrole nanoparticles coated amorphous short silica fibers: Synthesis and characterization. <i>Polymer Testing</i> , 2012, 31, 971-977.	2.3	34
43	Poly(vinylidene fluoride-co-hexafluoropropylene)/polyaniline blends assisted by phosphonium Based ionic liquid: Dielectric properties and I ² -phase formation. <i>European Polymer Journal</i> , 2015, 73, 65-74.	2.6	33
44	Dual-role of phosphonium Based ionic liquid in epoxy/MWCNT systems: Electric, rheological behavior and electromagnetic interference shielding effectiveness. <i>European Polymer Journal</i> , 2016, 84, 77-88.	2.6	33
45	Composite resin reinforced with pre-tensioned glass fibers. Influence of prestressing on flexural properties. <i>Dental Materials</i> , 2010, 26, 118-125.	1.6	32
46	Ionic liquids-lignin combination: an innovative way to improve mechanical behaviour and water vapour permeability of eco-designed biodegradable polymer blends. <i>RSC Advances</i> , 2015, 5, 1989-1998.	1.7	32
47	Conducting melt blending of polystyrene and EVA copolymer with carbon nanotube assisted by phosphonium-based ionic liquid. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45564.	1.3	32
48	Electrically Conductive Polyaniline-Coated Electrospun Poly(Vinylidene Fluoride) Mats. <i>Frontiers in Materials</i> , 2015, 2, .	1.2	30
49	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> , 2020, 7, .	1.2	30
50	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> , 2016, 27, 8062-8067.	1.1	28
51	Fabrication of Ti ₃ SiC ₂ -based composites via three-dimensional printing: Influence of processing on the final properties. <i>Ceramics International</i> , 2016, 42, 9557-9564.	2.3	28
52	Hybrid composites of ABS with carbonaceous fillers for electromagnetic shielding applications. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46546.	1.3	27
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> , 2016, 104, 3015-3020.	2.1	26
54	Preparation and characterization of poly(ether ether ketone) derivatives. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, .	0.6	25

#	ARTICLE	IF	CITATIONS
55	Crosslinked chitosan/poly (vinyl alcohol) blends with proton conductivity characteristic. Journal of the Brazilian Chemical Society, 2010, 21, 1692-1698.	0.6	25
56	Conducting polypyrrole-coated banana fiber composites: Preparation and characterization. Polymer Composites, 2013, 34, 537-543.	2.3	25
57	DBSA-CTAB mixture as the surfactant system for the one step inverse emulsion polymerization of aniline: Characterization and blend with epoxy resin. Synthetic Metals, 2017, 226, 139-147.	2.1	24
58	Effect of graphene nanoplatelets structure on the properties of acrylonitrile-butadiene-styrene composites. Polymer Composites, 2019, 40, E285.	2.3	24
59	Electrically conductive composites of polyurethane derived from castor oil with polypyrrole-coated peach palm fibers. Polymer Composites, 2017, 38, 2146-2155.	2.3	22
60	SEBS/PPy.DBSA blends: Preparation and evaluation of electromechanical and dynamic mechanical properties. Journal of Applied Polymer Science, 2011, 120, 351-359.	1.3	21
61	On the synergistic effect of sulfonic functionalization and acidic adhesive conditioning to enhance the adhesion of PEEK to resin-matrix composites. Dental Materials, 2021, 37, 741-754.	1.6	19
62	Novel electrically conductive polyurethane/montmorillonite-polypyrrole nanocomposites. EXPRESS Polymer Letters, 2015, 9, 945-958.	1.1	19
63	Poly (ether ether ketone) derivatives: Synthetic route and characterization of nitrated and sulfonated polymers. Materials Science and Engineering C, 2009, 29, 575-582.	3.8	18
64	Efeito do tratamento alcalino de fibras de juta no comportamento mecânico de compósitos de matriz epóxi. Polimeros, 2012, 22, 339-344.	0.2	17
65	Conductive Composites Based on Polyurethane and Nanostructured Conductive Filler of Montmorillonite/Polypyrrole for Electromagnetic Shielding Applications. Materials Research, 2018, 21, .	0.6	16
66	Effect of printing parameters on the electromagnetic shielding efficiency of ABS/carbonaceous-filler composites manufactured via filament fused fabrication. Journal of Manufacturing Processes, 2021, 65, 12-19.	2.8	16
67	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. Journal of Environmental Chemical Engineering, 2019, 7, 103156.	3.3	15
68	Electromagnetic interference shielding effectiveness of composites based on polyurethane derived from castor oil and nanostructured carbon fillers. Polymer Composites, 2019, 40, E78.	2.3	15
69	Poly(vinylidene fluoride)/thermoplastic polyurethane flexible and 3D printable conductive composites. Journal of Applied Polymer Science, 2021, 138, 50305.	1.3	15
70	Electrospun fibrous membranes of poly (lactic-co-glycolic acid) with β -tricalcium phosphate for guided bone regeneration application. Polymer Testing, 2020, 86, 106489.	2.3	14
71	Ionic liquid Assisted emulsion polymerization of aniline in organic medium. Materials Chemistry and Physics, 2016, 179, 194-203.	2.0	13
72	A comparative study of aligned and random electrospun mats of thermoplastic polyurethane and conductive additives based on polypyrrole. Polymer Testing, 2018, 70, 486-497.	2.3	13

#	ARTICLE	IF	CITATIONS
73	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> , 2019, 6, .	1.2	13
74	Properties of chemically treated natural amorphous silica fibers as polyurethane reinforcement. <i>Polymer Composites</i> , 2006, 27, 582-590.	2.3	12
75	The effect of compressive stress on the electrically resistivity of poly(vinylidene fluoride)/carbon nanotube nanocomposites. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2662-2670.	2.1	12
76	Fabrication and thermal analysis of epoxy resin-carbon fiber fabric composite plate-coil heat exchangers. <i>Applied Thermal Engineering</i> , 2017, 127, 1451-1460.	3.0	11
77	Morphology, mechanical properties and electromagnetic shielding effectiveness of poly(styrene-butadiene-styrene)/carbon nanotube nanocomposites; effects of maleic anhydride, carbon nanotube loading and processing method. <i>Polymer International</i> , 2018, 67, 1229-1240.	1.6	11
78	Ionic liquids as dispersing agents of graphene nanoplatelets in poly(methyl methacrylate) composites with microwave absorbing properties. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49814.	1.3	11
79	Fabrication and characterization of piezoresistive flexible pressure sensors based on poly(vinylidene fluoride)/carbon nanotube nanocomposites. <i>Sensors</i> , 2011, 11, 6621-6634.	2.3	11
80	Blendas de poliamida 6/elastômero: propriedades e influência da adição de agente compatibilizante. <i>Polimeros</i> , 2003, 13, 95-101.	0.2	10
81	Development of Poly (butylene adipate-co-terephthalate) Filled with Montmorillonite-Polypyrrole for Pressure Sensor Applications. <i>Materials Research</i> , 2019, 22, .	0.6	10
82	Synthesis of Conductive PPy/SiO ₂ Aerogels Nanocomposites by In Situ Polymerization of Pyrrole. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	1.5	9
83	Mechanical and Thermo-Physical Properties of Short Glass Fiber Reinforced Polybutylene Terephthalate upon Aging in Lubricant/Refrigerant Mixture. <i>Materials Research</i> , 2016, 19, 1310-1318.	0.6	9
84	Comparative study of electrically conductive polymer composites of polyester-based thermoplastic polyurethane matrix with polypyrrole and montmorillonite/polypyrrole additive. <i>Polymer Composites</i> , 2020, 41, 2003-2012.	2.3	9
85	Obtenção de nanocompósitos condutores de montmorilonita/polipirrol: Efeito da incorporação do surfactante na estrutura e propriedades. <i>Polimeros</i> , 2014, 24, 57-62.	0.2	8
86	Expanded graphite as a multifunctional filler for polymer nanocomposites. <i>Journal of Applied Polymer Science</i> , 2015, 119, 245-261.		8
87	Rheological Properties of Epoxy/Polypyrrole Coating and its Behavior as EMI Material. <i>Journal of Vinyl and Additive Technology</i> , 2020, 26, 348-353.	1.8	8
88	Evaluation of poly(vinylidene fluoride)/carbon black composites, manufactured by selective laser sintering. <i>Polymer Composites</i> , 2021, 42, 2457-2468.	2.3	8
89	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> , 2021, 61, 3001-3016.	1.5	8
90	Estudo das Propriedades de Compósitos de Polianilina e Resina Epoxídica. <i>Polimeros</i> , 2001, 11, 149-157.	0.2	7

#	ARTICLE	IF	CITATIONS
91	Evaluation of the properties of iron oxide-filled castor oil polyurethane. <i>Materials Research</i> , 2013, 16, 65-70.	0.6	7
92	Comparative Study of the Structure and Properties of Poly(Vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (Fluoride)/Montmor Casting. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	7
93	COMPATIBILITY STUDY OF NBR/PVC BLEND WITH GASOLINES AND ETHANOL FUEL. <i>Rubber Chemistry and Technology</i> , 2012, 85, 195-206.	0.6	6
94	Monitoring Pyrrol Polymerization Using Onâ€line Conductivity Measurements and Neural Networks. <i>Macromolecular Symposia</i> , 2013, 333, 113-121.	0.4	6
95	Facile approach to produce water-dispersible conducting polyaniline powder. <i>Synthetic Metals</i> , 2020, 267, 116451.	2.1	6
96	Effect of temperature and atmosphere on the tribological behavior of a polyether ether ketone composite. <i>Friction</i> , 2015, 3, 259-265.	3.4	5
97	The Effect of Ionic Liquid on the Development of Polyaniline/Natural Fibers and Biodegradable Conductive Composites Based on Poly(Butylene Adipateâ€coâ€terephthalate). <i>Macromolecular Symposia</i> , 2018, 380, 1800101.	0.4	5
98	Master batch approach for developing <scp>PVDF</scp>/<scp>EVA</scp>/<scp>CNT</scp> nanocomposites with coâ€continuous morphology and improved electrical conductivity. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51164.	1.3	5
99	Efeito da modificaÃ§Ã£o de superfÃcie de fibras nas propriedades mecÃnicas de compÃsitos a base de poli() Tj ETQq1 1 0.784314 rpf	0.2	5
100	Estudo da viabilidade de utilizaÃ§Ã£o de fibras naturais curtas em matrizes de resina epÃxi. <i>Revista Materia</i> , 2008, 13, 605-610.	0.1	4
101	Polypyrrole Modified E-Coat Paint for Corrosion Protection of Aluminum AA1200. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	4
102	Exploring Polypyrrole as Extraction Phase for Disposable Pipette Extraction Method for Multiclass Organic Micro-Pollutant Determination in River and Tap Water Using Gas Chromatography-Mass Spectrometry. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	3
103	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> , 2022, 31, 103470.	0.9	3
104	AVALIAÃ§Ã£o DA COMPOSIÃ§Ã£o QUÃMICA E DAS CARACTERÃSTICAS TÃ%RMICAS DE FILAMENTOS DE PLA PARA IMPRESSORAS 3D DE CÃ“DIGO ABERTO. , 0, , .		1
105	ImobilizaÃ§Ã£o de proteÃnas do veneno do escorpiÃo <i>Tytilus Serrulatus</i> em blenda condutora de Polianilina-Poli(Metacrilato de Hidroxietila). <i>Polimeros</i> , 2004, 14, 156-161.	0.2	1
106	The role of the electrical percolation threshold on the anticorrosion performance of an aqueous polyurethane dispersion containing polyaniline. <i>Progress in Organic Coatings</i> , 2022, 169, 106921.	1.9	1
107	Modelo analÃtico de impacto em material composto aplicado ao projeto de capacetes DOI: 10.5585/exacta.v8i1.1868. <i>Exacta</i> , 2010, 8, 35-43.	0.1	0
108	ObtenÃ§Ã£o de sensor de pressÃo Ã base de poli(etileno-co-acetato de vinila) com polipirrol ou polianilina DOI: 10.5585/exacta.v8i1.1628. <i>Exacta</i> , 2010, 8, 27-34.	0.1	0

#	ARTICLE	IF	CITATIONS
109	Obtenç�o de sensor de press�o base de poli(etileno-co-acetato de vinila) com polipirrol ou polianilina. Exacta, 2010, 8, 27-34.	0.1	0
110	Modelo anal�tico de impacto em material composto aplicado ao projeto de capacetes. Exacta, 2010, 8, 35-43.	0.1	0
111	Mechanical behavior of Epoxy-Aluminum composite for rapid tools applications. , 2011, , 365-368.		0
112	EFFECT OF TEMPERATURE AND ATMOSPHERE ON THE TRIBOLOGICAL BEHAVIOUR OF HIGH TRIBOLOGICAL PERFORMANCE PEEK (POLYETHER ETHER KETONE) COMPOSITE. , 0, , .		0
113	AVALIA�o DO POLI(FLUORETO DE VINILIDENO) (PVDF) PARA FABRICA�o POR SINTERIZA�o SELETIVA A LASER. , 2017, , .		0
114	AVALIA�o DE COMP�SITOS POLIM�ricos CONDUTORES DE ELETRICIDADE FABRICADOS POR EXTRUS�o DE MATERIAL. , 2017, , .		0