Gabriela L Botelho

List of Publications by Year
in descending order

50 papers	1,781 citations	279487 23 h-index	264894 42 g-index
52 all docs	52 docs citations	52 times ranked	2451 citing authors

#	Article	IF	Citations
1	On the origin of the electroactive poly(vinylidene fluoride) Î²-phase nucleation by ferrite nanoparticles via surface electrostatic interactions. CrystEngComm, 2012, 14, 2807.	1.3	242
2	Nanostructured Polymeric Coatings Based on Chitosan and Dopamineâ€Modified Hyaluronic Acid for Biomedical Applications. Small, 2014, 10, 2459-2469.	5.2	163
3	Antimicrobial activity of faujasite zeolites doped with silver. Microporous and Mesoporous Materials, 2012, 160, 126-132.	2.2	146
4	Studies on thermal and thermo-oxidative degradation of poly(ethylene terephthalate) and poly(butylene terephthalate). Polymer Degradation and Stability, 2001, 74, 39-48.	2.7	123
5	Piezoelectric poly(vinylidene fluoride) microstructure and poling state in active tissue engineering. Engineering in Life Sciences, 2015, 15, 351-356.	2.0	91
6	Influence of clay organic modifier on the thermal-stability of PLA based nanocomposites. Applied Clay Science, 2014, 88-89, 144-150.	2.6	89
7	The role of shear and stabilizer on PLA degradation. Polymer Testing, 2016, 51, 109-116.	2.3	77
8	Tailoring porous structure of ferroelectric poly(vinylidene fluoride-trifluoroethylene) by controlling solvent/polymer ratio and solvent evaporation rate. European Polymer Journal, 2011, 47, 2442-2450.	2.6	66
9	Nanoparticle Size and Concentration Dependence of the Electroactive Phase Content and Electrical and Optical Properties of Ag/Poly(vinylidene fluoride) Composites. ChemPhysChem, 2013, 14, 1926-1933.	1.0	54
10	Green solvent approach for printable large deformation thermoplastic elastomer based piezoresistive sensors and their suitability for biomedical applications. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2092-2103.	2.4	50
11	Improved response of ionic liquid-based bending actuators by tailored interaction with the polar fluorinated polymer matrix. Electrochimica Acta, 2019, 296, 598-607.	2.6	49
12	Development of poly(vinylidene fluoride)/ionic liquid electrospun fibers for tissue engineering applications. Journal of Materials Science, 2016, 51, 4442-4450.	1.7	48
13	Thermooxidative studies of poly(ether-esters) 1. Copolymer of poly(butylene terephthalate) and poly(ethylene oxide). Polymer Degradation and Stability, 2000, 67, 13-20.	2.7	42
14	Influence of electrospinning parameters on poly(hydroxybutyrate) electrospun membranes fiber size and distribution. Polymer Engineering and Science, 2014, 54, 1608-1617.	1.5	35
15	The effect of acidity behaviour of Y zeolites on the catalytic degradation of polyethylene. European Polymer Journal, 2006, 42, 1541-1547.	2.6	32
16	Physicochemical properties of poly(vinylidene fluoride-trifluoroethylene)/poly(ethylene oxide) blend membranes for lithium ion battery applications: Influence of poly(ethylene oxide) molecular weight. Solid State Ionics, 2014, 268, 54-67.	1.3	32
17	Characterization of EVA/PLA Blends When Exposed to Different Environments. Journal of Polymers and the Environment, 2014, 22, 148-157.	2.4	29
18	Enhancement of the Dielectric Constant and Thermal Properties of Î±-Poly(vinylidene fluoride)/Zeolite Nanocomposites. Journal of Physical Chemistry C, 2010, 114, 14446-14452.	1.5	28

#	Article	IF	Citations
19	Thermo-oxidative studies of poly(ether-esters) 2. Copolymer of poly(butylene terephthalate) and polybutylene oxide. Polymer Degradation and Stability, 2000, 68, 35-42.	2.7	27
20	Influence of the testing conditions on the efficiency and durability of stabilizers against ABS photo-oxidation. Polymer Testing, 2013, 32, 78-85.	2.3	26
21	Degradation of polyamide 11 in rotational moulding. Polymer Degradation and Stability, 2008, 93, 139-146.	2.7	25
22	Magnetically Controlled Drug Release System through Magnetomechanical Actuation. Advanced Healthcare Materials, 2016, 5, 3027-3034.	3.9	25
23	Enhancement of the thermooxidative degradability of polystyrene by chemical modification. Polymer Degradation and Stability, 2004, 86, 493-497.	2.7	23
24	Catalytic degradation of polyethylene: An evaluation of the effect of dealuminated Y zeolites using thermal analysis. Materials Chemistry and Physics, 2007, 104, 5-9.	2.0	23
25	Tailored Biodegradable and Electroactive Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Based Morphologies for Tissue Engineering Applications. International Journal of Molecular Sciences, 2018, 19, 2149.	1.8	23
26	From superhydrophobic- to superhydrophilic-patterned poly(vinylidene fluoride-co) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (-chloro Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1802-1810.	2.4	20
27	Poly(vinylidene fluoride-trifluoroethylene) Porous Films: Tailoring Microstructure and Physical Properties by Solvent Casting Strategies. Soft Materials, 2015, 13, 243-253.	0.8	19
28	A comparative study of the mechanism of the thermo-oxidative degradation of poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 299-304.	2.7	18
29	A comparative study on the thermo-oxidative degradation of poly(ether-esters). Polymer Degradation and Stability, 2001, 73, 431-435.	2.7	18
30	Morphology Dependence Degradation of Electro- and Magnetoactive Poly(3-hydroxybutyrate-co-hydroxyvalerate) for Tissue Engineering Applications. Polymers, 2020, 12, 953.	2.0	18
31	Spin-Coated Polysaccharide-Based Multilayered Freestanding Films with Adhesive and Bioactive Moieties. Molecules, 2020, 25, 840.	1.7	16
32	Stability of nanocomposites of poly(Îµ-caprolactone) with tungsten trioxide. Journal of Polymer Research, 2011, 18, 1743-1749.	1.2	14
33	Eco-friendly and cost-efficient inks for screen-printed fabrication of copper indium gallium diselenide photoabsorber thin films. Journal of Colloid and Interface Science, 2021, 598, 388-397.	5.0	13
34	Reusable Nanocomposite Membranes for Highly Efficient Arsenite and Arsenate Dual Removal from Water. Advanced Materials Interfaces, 2022, 9, 2101419.	1.9	11
35	Large-Scale Synthesis of Semiconducting Cu(In,Ga)Se2 Nanoparticles for Screen Printing Application. Nanomaterials, 2021, 11, 1148.	1.9	10
36	Inclusion complexes of Î±-cyclodextrins with poly(d,l-lactic acid): structural, characterization, and glass transition dynamics. Colloid and Polymer Science, 2014, 292, 863-871.	1.0	9

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37	Biodegradable Hydrogels Loaded with Magnetically Responsive Microspheres as 2D and 3D Scaffolds. Nanomaterials, 2020, 10, 2421.	1.9	8
38	Development of Poly(l-Lactic Acid)-Based Bending Actuators. Polymers, 2020, 12, 1187.	2.0	7
39	Thermogravimetric Study of Polyethylene Catalytic Degradation by Zeolites. Materials Science Forum, 2006, 514-516, 901-904.	0.3	5
40	Durability of PCL Nanocomposites Under Different Environments. Journal of Polymers and the Environment, 2013, 21, 710-717.	2.4	5
41	Physicochemical stability of contact lenses materials for biomedical applications. Journal of Optometry, 2020, 13, 120-127.	0.7	4
42	Role of Ultraviolet Absorbers (UVA) and Hindered Amine Light Stabilizers (HALS) in ABS Stabilization. Materials Science Forum, 2010, 636-637, 772-778.	0.3	3
43	Luminescent Poly(vinylidene fluoride)â€Based Inks for Anticounterfeiting Applications. Advanced Photonics Research, 2022, 3, 2100151.	1.7	3
44	Degradation studies of transparent conductive electrodes on electroactive poly(vinylidene fluoride) for uric acid measurements. Science and Technology of Advanced Materials, 2010, 11, 045006.	2.8	2
45	Effect of Polymer Dissolution Temperature and Conditioning Time on the Morphological and Physicochemical Characteristics of Poly(Vinylidene Fluoride) Membranes Prepared by Non-Solvent Induced Phase Separation. Polymers, 2021, 13, 4062.	2.0	2
46	Large-scale aqueous synthesis of Cu(In,Ga)Se₂ nanoparticles for photocatalytic degradation of ciprofloxacin. Dalton Transactions, 2021, 50, 16819-16828.	1.6	2
47	Influence of Diene Content on the Photodegradation of Ethylene-Propylene-Diene (EPDM) Elastomers. Materials Science Forum, 2006, 514-516, 877-881.	0.3	1
48	Capture and separation of l-histidine through optimized zinc-decorated magnetic silica spheres. Colloids and Surfaces B: Biointerfaces, 2017, 157, 48-55.	2.5	1
49	Student Skill Development with the Real World: Analyzing tert-Butyl Alcohol Content in Gasoline Samples. Journal of Chemical Education, 2019, 96, 1782-1785.	1.1	1
50	Influence of the thermo-oxidative degradation on the chemical structure of contact lenses. Proceedings of SPIE, 2013, , .	0.8	0