Ana Catarina Lopes

List of Publications by Year
in descending order

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40 papers	3,895 citations	304368 22 h-index	301761 39 g-index
40 all docs	40 docs citations	40 times ranked	4278 citing authors

#	Article	IF	Citations
1	Electroactive phases of poly(vinylidene fluoride): Determination, processing and applications. Progress in Polymer Science, 2014, 39, 683-706.	11.8	2,407
2	Nucleation of the Electroactive Î³ Phase and Enhancement of the Optical Transparency in Low Filler Content Poly(vinylidene)/Clay Nanocomposites. Journal of Physical Chemistry C, 2011, 115, 18076-18082.	1.5	255
3	Dielectric relaxation, ac conductivity and electric modulus in poly(vinylidene fluoride)/NaY zeolite composites. Solid State Ionics, 2013, 235, 42-50.	1.3	104
4	Aluminosilicate and aluminosilicate based polymer composites: Present status, applications and future trends. Progress in Surface Science, 2014, 89, 239-277.	3.8	86
5	Improving Photocatalytic Performance and Recyclability by Development of Er-Doped and Er/Pr-Codoped TiO₂/Poly(vinylidene difluoride)â€“Trifluoroethylene Composite Membranes. Journal of Physical Chemistry C, 2014, 118, 27944-27953.	1.5	73
6	Effect of ionic liquid anion and cation on the physico-chemical properties of poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 T	2.6	72
7	Microporous membranes of NaY zeolite/poly(vinylidene fluorideâ€“trifluoroethylene) for Li-ion battery separators. Journal of Electroanalytical Chemistry, 2013, 689, 223-232.	1.9	66
8	Porous Membranes of Montmorillonite/Poly(vinylidene fluorideâ€trifluorethylene) for Liâ€ion Battery Separators. Electroanalysis, 2012, 24, 2147-2156.	1.5	55
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	Variation of the physicochemical and morphological characteristics of solvent casted poly(vinylidene fluoride) along its binary phase diagram with dimethylformamide. Journal of Non-Crystalline Solids, 2015, 412, 16-23.	1.5	53
11	High performance electromechanical actuators based on ionic liquid/poly(vinylidene fluoride). Polymer Testing, 2015, 48, 199-205.	2.3	51
12	Direct fabrication of a 3D-shape film of polyvinylidene fluoride (PVDF) in the piezoelectric Î²-phase for sensor and actuator applications. European Polymer Journal, 2018, 99, 111-116.	2.6	51
13	Development of poly(vinylidene fluoride)/ionic liquid electrospun fibers for tissue engineering applications. Journal of Materials Science, 2016, 51, 4442-4450.	1.7	48
14	Osteoblast, fibroblast and in vivo biological response to poly(vinylidene fluoride) based composite materials. Journal of Materials Science: Materials in Medicine, 2013, 24, 395-403.	1.7	40
15	Electrical and thermal behavior of Î³-phase poly(vinylidene fluoride)/NaY zeolite composites. Microporous and Mesoporous Materials, 2012, 161, 98-105.	2.2	39
16	Poly(vinylidene fluoride-trifluoroethylene)/NAY zeolite hybrid membranes as a drug release platform applied to ibuprofen release. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 469, 93-99.	2.3	33
17	Enhanced mass sensitivity in novel magnetoelastic resonators geometries for advanced detection systems. Sensors and Actuators B: Chemical, 2019, 296, 126612.	4.0	32
18	Influence of zeolite structure and chemistry on the electrical response and crystallization phase of poly(vinylidene fluoride). Journal of Materials Science, 2013, 48, 2199-2206.	1.7	31

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19	Effect of filler content on morphology and physicalâ€“chemical characteristics of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overloc	1.7	30
20	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
21	Crystallization kinetics of montmorillonite/poly(vinylidene fluoride) composites and its correlation with the crystalline polymer phase formation. Thermochimica Acta, 2013, 574, 19-25.	1.2	28
22	Ionic liquids for the control of the morphology in poly(vinylidene fluoride-co-hexafluoropropylene) membranes. Materials and Design, 2018, 155, 325-333.	3.3	25
23	Chromium Speciation in Zirconiumâ€Based Metalâ€“Organic Frameworks for Environmental Remediation. Chemistry - A European Journal, 2020, 26, 13861-13872.	1.7	23
24	Novel hybrid multifunctional magnetoelectric porous composite films. Journal of Magnetism and Magnetic Materials, 2015, 396, 237-241.	1.0	20
25	Effect of Zeolite Content in the Electrical, Mechanical and Thermal Degradation Response of Poly(vinylidene fluoride)/NaY Zeolite Composites. Journal of Nanoscience and Nanotechnology, 2012, 12, 6804-6810.	0.9	19
26	Î³-Phase nucleation and electrical response of poly(vinylidene fluoride)/microporous titanosilicates composites. Materials Chemistry and Physics, 2013, 138, 553-558.	2.0	19
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	Dielectric relaxation dynamics of high-temperature piezoelectric polyimide copolymers. Applied Physics A: Materials Science and Processing, 2015, 120, 731-743.	1.1	16
29	Corrosion resistant metallic glasses for biosensing applications. AIP Advances, 2018, 8, .	0.6	15
30	Tailoring microstructure and physical properties of poly(vinylidene fluorideâ€“hexafluoropropylene) porous films. Journal of Materials Science, 2015, 50, 5047-5058.	1.7	14
31	Accurate Determination of the Q Quality Factor in Magnetoelastic Resonant Platforms for Advanced Biological Detection. Sensors, 2018, 18, 887.	2.1	13
32	Magnetic, Magnetoelastic and Corrosion Resistant Properties of (Feâ€“Ni)-Based Metallic Glasses for Structural Health Monitoring Applications. Materials, 2020, 13, 57.	1.3	13
33	Rhombic-magnetoelastic/metalâ€“organic framework functionalized resonators for highly sensitive toluene detection. Journal of Materials Chemistry C, 2020, 8, 13743-13753.	2.7	13
34	Magnetoelastic Resonance Sensors: Principles, Applications, and Perspectives. ACS Sensors, 2022, 7, 1248-1268.	4.0	13
35	Influence of solvent properties on the electrical response of poly(vinylidene fluoride)/NaY composites. Journal of Polymer Research, 2013, 20, 1.	1.2	9
36	Influence of the magnetic domain structure in the mass sensitivity of magnetoelastic sensors with different geometries. Journal of Alloys and Compounds, 2021, 863, 158555.	2.8	9

#	Article	IF	Citations
37	Ion Exchange Dependent Electroactive Phase Content and Electrical Properties of Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	8
38	Theoretical and Experimental Analysis of Novel Rhombus Shaped Magnetoelastic Sensors With Enhanced Mass Sensitivity. IEEE Sensors Journal, 2020, 20, 13332-13340.	2.4	7
39	Development of novel piezo-ionic/magnetostrictive composites for energy generation systems. Smart Materials and Structures, 2020, 29, 085041.	1.8	3
40	Influence of the Length-to-Width Ratio on the <i>Î”E</i> Effect of Amorphous Magnetoelastic Ribbons for Actuation Applications. Key Engineering Materials, 0, 826, 3-10.	0.4	1