Vanessa F Cardoso

List of Publications by Year
in descending order

52 papers	2,201 citations	430442 18 h-index	276539 41 g-index
52 all docs	52 docs citations	52 times ranked	3073 citing authors

#	Article	IF	Citations
1	Electroactive poly(vinylidene fluoride)-based structures for advanced applications. Nature Protocols, 2018, 13, 681-704.	5.5	466
2	Advances in Magnetic Nanoparticles for Biomedical Applications. Advanced Healthcare Materials, 2018, 7, 1700845.	3.9	453
3	Fluorinated Polymers as Smart Materials for Advanced Biomedical Applications. Polymers, 2018, 10, 161.	2.0	196
4	Micro and nanofilms of poly(vinylidene fluoride) with controlled thickness, morphology and electroactive crystalline phase for sensor and actuator applications. Smart Materials and Structures, 2011, 20, 087002.	1.8	116
5	Energy harvesting performance of BaTiO3/poly(vinylidene fluorideâ€“trifluoroethylene) spin coated nanocomposites. Composites Part B: Engineering, 2015, 72, 130-136.	5.9	96
6	Optimized SU-8 Processing for Low-Cost Microstructures Fabrication without Cleanroom Facilities. Micromachines, 2014, 5, 738-755.	1.4	94
7	Silica/poly(vinylidene fluoride) porous composite membranes for lithium-ion battery separators. Journal of Membrane Science, 2018, 564, 842-851.	4.1	68
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	Improving the optical and electroactive response of poly(vinylidene fluorideâ€“trifluoroethylene) spin-coated films for sensor and actuator applications. Smart Materials and Structures, 2012, 21, 085020.	1.8	56
10	Multilayer spin-coating deposition of poly(vinylidene fluoride) films for controlling thickness and piezoelectric response. Sensors and Actuators A: Physical, 2013, 192, 76-80.	2.0	56
11	Nonsolvent induced phase separation preparation of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (fluoride-c content and mechanical properties. Materials and Design, 2015, 88, 390-397.	3.3	51
12	A green solvent strategy for the development of piezoelectric poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (fluorideâ€“ 104, 183-189.	3.3	42
13	Poly(vinylidene fluoride-hexafluoropropylene)/bayerite composite membranes for efficient arsenic removal from water. Materials Chemistry and Physics, 2016, 183, 430-438.	2.0	41
14	Smart-Optical Detector CMOS Array for Biochemical Parameters Analysis in Physiological Fluids. IEEE Transactions on Industrial Electronics, 2008, 55, 3192-3200.	5.2	30
15	Polymer-based acoustic streaming for improving mixing and reaction times in microfluidic applications. RSC Advances, 2014, 4, 4292-4300.	1.7	28
16	Lab-on-a-Chip With Î²-Poly(Vinylidene Fluoride) Based Acoustic Microagitation. IEEE Transactions on Biomedical Engineering, 2010, 57, 1184-1190.	2.5	25
17	Electroactive Polymers as Actuators. , 2017, , 319-352.		25
18	Electroactive Poly(Vinylidene Fluoride-Trifluorethylene) (PVDF-TrFE) Microporous Membranes for Lithium-Ion Battery Applications. Ferroelectrics, 2012, 430, 103-107.	0.3	20

#	Article	IF	Citations
19	From superhydrophobic- to superhydrophilic-patterned poly(vinylidene fluoride-co) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1802-1810.	2.4	20
20	Cellular Interaction of Bone Marrow Mesenchymal Stem Cells with Polymer and Hydrogel 3D Microscaffold Templates. ACS Applied Materials & Interfaces, 2022, 14, 13013-13024.	4.0	20
21	Poly(vinylidene fluoride-trifluoroethylene) Porous Films: Tailoring Microstructure and Physical Properties by Solvent Casting Strategies. Soft Materials, 2015, 13, 243-253.	0.8	19
22	Enhanced performance of fluorinated separator membranes for lithium ion batteries through surface micropatterning. Energy Storage Materials, 2019, 21, 124-135.	9.5	17
23	Tailoring Electrospun Poly(<scp>l</scp>-lactic acid) Nanofibers as Substrates for Microfluidic Applications. ACS Applied Materials & Interfaces, 2020, 12, 60-69.	4.0	16
24	Tailoring microstructure and physical properties of poly(vinylidene fluorideâ€“hexafluoropropylene) porous films. Journal of Materials Science, 2015, 50, 5047-5058.	1.7	14
25	Tuning Myoblast and Preosteoblast Cell Adhesion Site, Orientation, and Elongation through Electroactive Micropatterned Scaffolds. ACS Applied Bio Materials, 2019, 2, 1591-1602.	2.3	14
26	Patterned Piezoelectric Scaffolds for Osteogenic Differentiation. International Journal of Molecular Sciences, 2020, 21, 8352.	1.8	14
27	Comparative study of solâ€“gel methods for the facile synthesis of tailored magnetic silica spheres. Materials Research Express, 2016, 3, 075402.	0.8	12
28	Lab-on-a-chip technology and microfluidics. , 2019, , 3-36.		11
29	Highly effective clean-up of magnetic nanoparticles using microfluidic technology. Sensors and Actuators B: Chemical, 2018, 255, 2384-2391.	4.0	10
30	Ultrasonic Transducer Based on Î²-PVDF for Fluidic Microagitation in a Lab-on-a-Chip Device. Advances in Science and Technology, 2008, 57, 99-104.	0.2	9
31	Fluorinated Polymer Membranes as Advanced Substrates for Portable Analytical Systems and Their Proof of Concept for Colorimetric Bioassays. ACS Applied Materials & Interfaces, 2021, 13, 18065-18076.	4.0	9
32	Evaluation of the Physicochemical Properties and Active Response of Piezoelectric Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Chemistry C, 2018, 122, 11433-11441.	1.5	8
33	Tailoring electroactive poly(vinylidene fluorideâ€co-trifluoroethylene) microspheres by a nanoprecipitation method. Materials Letters, 2020, 261, 127018.	1.3	8
34	Layer-by-layer fabrication of highly transparent polymer based piezoelectric transducers. Materials Research Express, 2018, 5, 065313.	0.8	7
35	Electroactive poly(vinylidene fluoride)-based materials: recent progress, challenges, and opportunities. , 2020, , 1-43.		7
36	Solid Magnetoliposomes as Multi-Stimuli-Responsive Systems for Controlled Release of Doxorubicin: Assessment of Lipid Formulations. Biomedicines, 2022, 10, 1207.	1.4	7

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37	Biodegradable polymer-based microfluidic membranes for sustainable point-of-care devices. Chemical Engineering Journal, 2022, 448, 137639.	6.6	7
38	Metamorphic biomaterials. , 2017, , 69-99.		6
39	Natural based reusable materials for microfluidic substrates: The silk road towards sustainable portable analytical systems. Applied Materials Today, 2022, 28, 101507.	2.3	6
40	Patterned separator membranes with pillar surface microstructures for improved battery performance. Journal of Colloid and Interface Science, 2021, 596, 158-172.	5.0	4
41	Piezoelectric β-PVDF polymer films as fluid acoustic microagitator. , 2008, , .		3
42	Biological microdevice with fluidic acoustic streaming for measuring uric acid in human saliva. , 2009, 2009, 5879-82.		3
43	Heating of samples by acoustic microagitation for improving reaction of biological fluids. , 2010, , .		3
44	Lab-on-a-chip using acoustic streaming for mixing and pumping fluids. , 2011, , .		3
45	Micro- and nanostructured piezoelectric polymers. Frontiers of Nanoscience, 2019, , 35-65.	0.3	3
46	Solution processing of piezoelectric unconventional structures. , 2022, , 375-439.		3
47	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
48	Design and fabrication of piezoelectric microactuators based on β-poly (vinylidene fluoride) films for microfluidic applications. , 2010, 2010, 903-6.		2
49	Magnetic PDMS Microparticles for Biomedical and Energy Applications. Lecture Notes in Computational Vision and Biomechanics, 2019, , 578-584.	0.5	2
50	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
51	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
52	Gold coated SU-8-based microelectrodes for in vivo electrophysiological studies: Rapid prototyping protocol-specific microelectrode designs. , 2011, , .		0