

Influence of Processing Conditions on Polymorphism and Electroactive Poly(vinylidene fluoride) Electrospun Membranes

Soft Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Electrospun in-situ hybrid polyurethane/nano-TiO ₂ as wound dressings. <i>Fibers and Polymers</i> , 2011, 12, 207-213.	1.1	51
2	Poly(vinylidene fluoride-trifluoroethylene) (72/28) interconnected porous membranes obtained by crystallization from solution. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1312, 1.	0.1	12
3	Role of Nanoparticle Surface Charge on the Nucleation of the Electroactive \hat{I}^2 -Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 667 2012, 116, 15790-15794.	1.5	199
4	Fiber average size and distribution dependence on the electrospinning parameters of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock Science and Processing, 2012, 109, 685-691.	1.1	39
5	On the origin of the electroactive poly(vinylidene fluoride) \hat{I}^2 -phase nucleation by ferrite nanoparticles via surface electrostatic interactions. <i>CrystEngComm</i> , 2012, 14, 2807.	1.3	242
6	Piezoelectric nanofibers for energy scavenging applications. <i>Nano Energy</i> , 2012, 1, 356-371.	8.2	386
7	Local piezoelectric response of single poly(vinylidene fluoride) electrospun fibers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2605-2609.	0.8	45
8	Correlation between Crystallization Kinetics and Electroactive Polymer Phase Nucleation in Ferrite/Poly(vinylidene fluoride) Magnetolectric Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2012, 116, 794-801.	1.2	88
9	Enhanced proliferation of pre-osteoblastic cells by dynamic piezoelectric stimulation. <i>RSC Advances</i> , 2012, 2, 11504.	1.7	106
10	Determination of the parameters affecting electrospun chitosan fiber size distribution and morphology. <i>Carbohydrate Polymers</i> , 2012, 87, 1295-1301.	5.1	90
11	Influence of fiber diameter and crystallinity on the stability of electrospun poly(L-lactic acid) membranes to hydrolytic degradation. <i>Polymer Testing</i> , 2012, 31, 770-776.	2.3	25
12	Effect of poling state and morphology of piezoelectric poly(vinylidene fluoride) membranes for skeletal muscle tissue engineering. <i>RSC Advances</i> , 2013, 3, 17938.	1.7	128
13	Electrochemical performance and thermal property of electrospun PPESK/PVDF/PPESK composite separator for lithium-ion battery. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 711-720.	1.5	41
14	Electrospun chitosan/PEDOT nanofibers. <i>Materials Science and Engineering C</i> , 2013, 33, 3845-3850.	3.8	37
15	Crystallization kinetics of montmorillonite/poly(vinylidene fluoride) composites and its correlation with the crystalline polymer phase formation. <i>Thermochimica Acta</i> , 2013, 574, 19-25.	1.2	28
16	Interface characterization and thermal degradation of ferrite/poly(vinylidene fluoride) multiferroic nanocomposites. <i>Journal of Materials Science</i> , 2013, 48, 2681-2689.	1.7	51
17	The effect of clay and of electrospinning on the polymorphism, structure and morphology of poly(vinylidene fluoride). <i>European Polymer Journal</i> , 2013, 49, 90-99.	2.6	63
18	Electrospinning of supramolecular polymer complexes. <i>Science China Chemistry</i> , 2013, 56, 24-32.	4.2	9

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19	Energy harvesting performance of piezoelectric electrospun polymer fibers and polymer/ceramic composites. <i>Sensors and Actuators A: Physical</i> , 2013, 196, 55-62.	2.0	138
20	Poly(vinylidene fluoride)/silica nanocomposite membranes by electrospinning. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1089-1095.	1.3	13
21	Effect of fiber orientation in gelled poly(vinylidene fluoride) electrospun membranes for Li-ion battery applications. <i>Journal of Materials Science</i> , 2013, 48, 6833-6840.	1.7	20
22	Nucleation of the electroactive β -phase, dielectric and magnetic response of poly(vinylidene fluoride) composites with Fe ₂ O ₃ nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2013, 361, 93-99.	1.5	58
23	Electrospinning: A versatile technique for energy storage and sensor applications. , 2014, , .		1
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25	The effect of processing conditions on the crystal structure and electroactive properties of poly(vinylidene fluoride)/ multi-walled carbon nanotubes nanocomposites. , 2014, , .		0
26	Influence of electrospinning parameters on poly(hydroxybutyrate) electrospun membranes fiber size and distribution. <i>Polymer Engineering and Science</i> , 2014, 54, 1608-1617.	1.5	35
27	Electroactive phases of poly(vinylidene fluoride): Determination, processing and applications. <i>Progress in Polymer Science</i> , 2014, 39, 683-706.	11.8	2,407
28	Effect of filler content on morphology and physical-chemical characteristics of poly(vinylidene fluoride) nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014, 114, 1078-1084.	1.7	30
29	Processing and characterization of β -elastin electrospun membranes. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 1291-1298.	1.1	12
30	Flexible Fibrous Piezoelectric Sensors on Printed Silver Electrodes. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 709-713.	1.1	12
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32	Electrospun styrene-butadiene-styrene elastomer copolymers for tissue engineering applications: Effect of butadiene/styrene ratio, block structure, hydrogenation and carbon nanotube loading on physical properties and cytotoxicity. <i>Composites Part B: Engineering</i> , 2014, 67, 30-38.	5.9	52
33	Piezoelectric electrospun nanofibrous materials for self-powering wearable electronic textiles applications. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	82
34	Electrical properties of intrinsically conductive core-shell polypyrrole/poly(vinylidene fluoride) electrospun fibers. <i>Synthetic Metals</i> , 2014, 197, 198-203.	2.1	14
35	Flexible Fibrous Piezo-Electric Sensor on Printed Silver Electrode. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1685, 64.	0.1	0
36	Piezoelectric poly(vinylidene fluoride) microstructure and poling state in active tissue engineering. <i>Engineering in Life Sciences</i> , 2015, 15, 351-356.	2.0	91

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37	Enhancement of adhesion and promotion of osteogenic differentiation of human adipose stem cells by poled electroactive poly(vinylidene fluoride). Journal of Biomedical Materials Research - Part A, 2015, 103, 919-928.	2.1	63
38	Effect of electrospinning parameters and polymer concentrations on mechanical-to-electrical energy conversion of randomly-oriented electrospun poly(vinylidene fluoride) nanofiber mats. RSC Advances, 2015, 5, 14345-14350.	1.7	182
39	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
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44	Influence of processing conditions on polymorphic behavior, crystallinity, and morphology of electrospun poly(Vinylidene fluoride) nanofibers. Journal of Applied Polymer Science, 2015, 132, .	1.3	41
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47	Electrospinning/electrospray of polyvinylidene fluoride (PVDF): piezoelectric nanofibers. Journal of the Textile Institute, 0, , 1-19.	1.0	36
48	Correlation between nucleation, phase transition and dynamic melt-crystallization kinetics in PAni/PVDF blends. RSC Advances, 2015, 5, 74486-74498.	1.7	30
49	Influence of SiO ₂ nanoparticles on morphological, thermal, and dielectric properties of PVDF. Journal of Thermal Analysis and Calorimetry, 2015, 122, 1403-1416.	2.0	35
50	Engineering of a Stable Collagen Nanofibrous Scaffold with Tunable Fiber Diameter, Alignment, and Mechanical Properties. Macromolecular Materials and Engineering, 2016, 301, 1064-1075.	1.7	24
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52	INFLUENCE OF THE SUBSTRATE ON THE CRYSTALLINE PHASE AND MORPHOLOGY OF POLY (VINYLIDENE) Tj ETQq1 1 0.784314 rgBT /O		
53	In situ monitored stretching induced $\hat{1} \pm \hat{1}^2$ allotropic transformation of flexible poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 84, 602-611.	2.6	24
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56	Electromechanical actuators based on poly(vinylidene fluoride) with [N1 \hat{A} 1 \hat{A} 2(OH)][NTf2] and [C2mim][C2SO4]. <i>Journal of Materials Science</i> , 2016, 51, 9490-9503.	1.7	40
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58	Poly(vinylidene-fluoride)/p-benzoquinone gel polymer electrolyte with good performance by redox mediator effect for Li-air battery. <i>Electrochimica Acta</i> , 2016, 210, 821-828.	2.6	23
59	Effect of Sterilization Methods on Electrospun Poly(lactic acid) (PLA) Fiber Alignment for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3241-3249.	4.0	171
60	Development of poly(vinylidene fluoride)/ionic liquid electrospun fibers for tissue engineering applications. <i>Journal of Materials Science</i> , 2016, 51, 4442-4450.	1.7	48
61	Electrospun polyvinylidene fluoride nanofibers by bubble electrospinning technique. <i>Materials Letters</i> , 2016, 167, 34-37.	1.3	17
62	Strategies for the development of three dimensional scaffolds from piezoelectric poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.3	52
63	Amorphous SiO ₂ NP-Incorporated Poly(vinylidene fluoride) Electrospun Nanofiber Membrane for High Flux Forward Osmosis Desalination. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4561-4574.	4.0	131
64	Preparation and optimization of chitosan/polyethylene oxide nanofiber diameter using artificial neural networks. <i>Neural Computing and Applications</i> , 2017, 28, 3131-3143.	3.2	31
65	Encapsulation of bioactive compounds through electrospinning/electrospraying and spray drying: A comparative assessment of food-related applications. <i>Drying Technology</i> , 2017, 35, 139-162.	1.7	147
66	Polymeric Nanofibers with Ultrahigh Piezoelectricity <i>via</i> Self-Orientation of Nanocrystals. <i>ACS Nano</i> , 2017, 11, 1901-1910.	7.3	124
67	Pure β^2 -phase formation in polyvinylidene fluoride (PVDF)-carbon nanotube composites. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 163002.	1.3	145
68	Enhanced thermal properties of poly(vinylidene fluoride) composites with ultrathin nanosheets of MXene. <i>RSC Advances</i> , 2017, 7, 20494-20501.	1.7	242
69	Designing electrospun nanocomposite poly(vinylidene fluoride) mats with tunable wettability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 523, 81-90.	2.3	9
70	Membranes based on polymer miscibility for selective transport and separation of metallic ions. <i>Journal of Hazardous Materials</i> , 2017, 336, 188-194.	6.5	36
71	Mechanical performance of piezoelectric fiber composites and electroelastic field concentration near the electrode edges. <i>Materials and Design</i> , 2017, 128, 71-79.	3.3	4
72	Fabrication of electrospun PVDF nanofibers with higher content of polar β^2 phase and smaller diameter by adding a small amount of dioctadecyl dimethyl ammonium chloride. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 992-1000.	2.0	23

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82	On the Relevance of the Polar β' -Phase of Poly(vinylidene fluoride) for High Performance Lithium-Ion Battery Separators. Journal of Physical Chemistry C, 2017, 121, 26216-26225.	1.5	53
83	A retrospect on the role of piezoelectric nanogenerators in the development of the green world. RSC Advances, 2017, 7, 33642-33670.	1.7	35
84	PVDF/graphene composite nanofibers with enhanced piezoelectric performance for development of robust nanogenerators. Composites Science and Technology, 2017, 138, 49-56.	3.8	256
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93	Evaluation of the Physicochemical Properties and Active Response of Piezoelectric Poly(vinylidene Tj ETQq1 1 0.784314 rgBT /Overlock Chemistry C, 2018, 122, 11433-11441.	1.5	8
94	Investigation of the electromagnetic microwaves absorption and piezoelectric properties of electrospun Fe3O4-GO/PVDF hybrid nanocomposites. <i>Organic Electronics</i> , 2018, 59, 149-155.	1.4	68
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102	A comprehensive review on piezoelectric energy harvesting technology: Materials, mechanisms, and applications. <i>Applied Physics Reviews</i> , 2018, 5, .	5.5	565
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108	In situ synthesized electroactive and large dielectric BaF2/PVDF nanocomposite film for superior and highly durable self-charged hybrid photo-power cell. <i>Energy Conversion and Management</i> , 2018, 171, 1083-1092.	4.4	12
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111	Tactile-Sensing Based on Flexible PVDF Nanofibers via Electrospinning: A Review. <i>Sensors</i> , 2018, 18, 330.	2.1	158
112	Fluorinated Polymers as Smart Materials for Advanced Biomedical Applications. <i>Polymers</i> , 2018, 10, 161.	2.0	196
113	Largely Improved Stretch Ductility and β -Form Room-temperature Durability of Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2018, 36, 1277-1285.	2.0	8
114	Crystalline structure, dielectric, and mechanical properties of simultaneously biaxially stretched polyvinylidene fluoride film. <i>Polymers for Advanced Technologies</i> , 2018, 29, 3056-3064.	1.6	19
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119	Electrospun Polyvinylidene Fluoride-Based Fibrous Scaffolds with Piezoelectric Characteristics for Bone and Neural Tissue Engineering. <i>Nanomaterials</i> , 2019, 9, 952.	1.9	109
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123	High Electromechanical Deformation Based on Structural Beta-Phase Content and Electrostrictive Properties of Electrospun Poly(vinylidene fluoride- hexafluoropropylene) Nanofibers. <i>Polymers</i> , 2019, 11, 1817.	2.0	31
124	Direct preparation of β -crystalline poly(vinylidene fluoride) nanofibers by electrospinning and the use of non-polar silver nanoparticles coated poly(vinylidene fluoride) nanofibers as electrodes for piezoelectric sensor. <i>Polymer</i> , 2019, 183, 121910.	1.8	15
125	PVDF Nanofiber Sensor for Vibration Measurement in a String. <i>Sensors</i> , 2019, 19, 3739.	2.1	27
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129	New developments in composites, copolymer technologies and processing techniques for flexible fluoropolymer piezoelectric generators for efficient energy harvesting. <i>Energy and Environmental Science</i> , 2019, 12, 1143-1176.	15.6	187
130	Flexible electronic skins based on piezoelectric nanogenerators and piezotronics. <i>Nano Energy</i> , 2019, 59, 84-90.	8.2	171
131	A molecular ferroelectrics induced electroactive $\hat{\Gamma}^2$ -phase in solution processed PVDF films for flexible piezoelectric sensors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1532-1543.	2.7	50
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134	Recent advances in hybrid sodium-air batteries. <i>Materials Horizons</i> , 2019, 6, 1306-1335.	6.4	55
135	Design and application of piezoelectric biomaterials. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 194002.	1.3	44
136	Controlling the surface structure, mechanical properties, crystallinity, and piezoelectric properties of electrospun PVDF nanofibers by maneuvering molecular weight. <i>Soft Materials</i> , 2019, 17, 181-189.	0.8	71
137	Textile-compatible, Electroactive Polyvinylidene Fluoride Electrospun Mats for Energy Harvesting. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900364.	1.1	11
138	Improved battery performance contributed by the optimized phase ratio of $\hat{\Gamma}^2$ and $\hat{\Gamma}^1$ of PVDF. <i>RSC Advances</i> , 2019, 9, 29760-29764.	1.7	14
139	Improved response of ionic liquid-based bending actuators by tailored interaction with the polar fluorinated polymer matrix. <i>Electrochimica Acta</i> , 2019, 296, 598-607.	2.6	49
140	Poling and annealing of piezoelectric Poly(Vinylidene fluoride) micropillar arrays. <i>Materials Chemistry and Physics</i> , 2020, 239, 122035.	2.0	35
141	Electrospinning Piezoelectric Fibers for Biocompatible Devices. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901287.	3.9	90
142	Inch-sized aligned polymer nanofiber films with embedded $\text{CH}_3\text{NH}_3\text{PbBr}_3$ nanocrystals: electrospinning fabrication using a folded aluminum foil as the collector. <i>Nanotechnology</i> , 2020, 31, 075708.	1.3	11
143	Maneuvering the secondary surface morphology of electrospun poly (vinylidene fluoride) nanofibers by controlling the processing parameters. <i>Materials Research Express</i> , 2020, 7, 015008.	0.8	19
144	P(VDF-TrFE) nanofibers: structure of the ferroelectric and paraelectric phases through IR and Raman spectroscopies. <i>RSC Advances</i> , 2020, 10, 37779-37796.	1.7	65
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147	Development of Novel Microenvironments for Promoting Enhanced Wound Healing. <i>Current Tissue Microenvironment Reports</i> , 2020, 1, 73-87.	1.3	5
148	Fabrication and Characterization of Electrospun Membranes Based on α -Poly(μ -caprolactone), α -Poly(3-hydroxybutyrate) and Their Blend for Tunable Drug Delivery of Curcumin. <i>Polymers</i> , 2020, 12, 2239.	2.0	24
149	Piezoelectric pressure sensors based on GO-modified P(VDF-TrFE) fibers for vacuum applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18627-18639.	1.1	14
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