

# Electroactive phases of poly(vinylidene fluoride): Determination and applications

Progress in Polymer Science

39, 683-706

DOI: [10.1016/j.progpolymsci.2013.07.006](https://doi.org/10.1016/j.progpolymsci.2013.07.006)

Citation Report

#	ARTICLE	IF	CITATIONS
5	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
6	Processing and Electrical Response of Fully Polymer Piezoelectric Filaments for E-Textiles Applications. <i>Journal of Textile Engineering</i> , 2014, 60, 27-34.	0.5	4
7	Crystallization kinetics of $\beta$ phase poly(vinylidene fluoride)(PVDF) induced by tetrabutylammonium bisulfate. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	8
8	CRYSTALLINE STRUCTURES AND $\beta$ AND $\beta'$ POLYMORPHS TRANSFORMATION INDUCED BY NANOCCLAY IN PVDF-BASED NANOCOMPOSITE. <i>Nano</i> , 2014, 09, 1450065.	0.5	28
9	Physicochemical properties of poly(vinylidene fluoride-trifluoroethylene)/poly(ethylene oxide) blend membranes for lithium ion battery applications: Influence of poly(ethylene oxide) molecular weight. <i>Solid State Ionics</i> , 2014, 268, 54-67.	1.3	32
10	Piezoelectric coaxial filaments produced by coextrusion of poly(vinylidene fluoride) and electrically conductive inner and outer layers. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	21
11	Chemical bonding states at the polymer/metal interface and their effects on the capacitance-voltage characteristics of the ferroelectric poly(vinylidene fluoride-trifluoroethylene) copolymer thin films. <i>Thin Solid Films</i> , 2014, 565, 215-221.	0.8	0
12	Organic, Flexible, Polymer Composites for High-Temperature Piezoelectric Applications. <i>Energy Harvesting and Systems</i> , 2014, 1, .	1.7	2
13	Sponge-Like Piezoelectric Polymer Films for Scalable and Integratable Nanogenerators and Self-Powered Electronic Systems. <i>Advanced Energy Materials</i> , 2014, 4, 1301624.	10.2	326
14	Induced formation of polar phases in poly(vinylidene fluoride) by cetyl trimethyl ammonium bromide. <i>Journal of Materials Science</i> , 2014, 49, 4171-4179.	1.7	29
15	Effect of filler content on morphology and physical-chemical characteristics of poly(vinylidene fluoride)/graphene nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.7	30
16	Energy Storage in Ferroelectric Polymer Nanocomposites Filled with Core-Shell Structured Polymer@BaTiO <sub>3</sub> Nanoparticles: Understanding the Role of Polymer Shells in the Interfacial Regions. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19644-19654.	4.0	141
17	Improving Photocatalytic Performance and Recyclability by Development of Er-Doped and Er/Pr-Codoped TiO <sub>2</sub> /Poly(vinylidene difluoride)-Trifluoroethylene Composite Membranes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27944-27953.	1.5	73
18	Enhanced piezoelectric responses and crystalline arrangement of electroactive polyvinylidene fluoride/magnetite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	5
19	Synthesis and characterization of novel piezoelectric nitrile copolyimide films for high temperature sensor applications. <i>Smart Materials and Structures</i> , 2014, 23, 105015.	1.8	12
20	Electro-active phase formation in PVDF-BiVO <sub>4</sub> flexible nanocomposite films for high energy density storage application. <i>RSC Advances</i> , 2014, 4, 48220-48227.	1.7	82
21	Preparation of PVDF/graphene ferroelectric composite films by in situ reduction with hydrobromic acids and their properties. <i>RSC Advances</i> , 2014, 4, 45220-45229.	1.7	107
22	Improved performance of a polymer nanogenerator based on silver nanoparticles doped electrospun P(VDF-HFP) nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10403.	1.3	130

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25	Ti <sub>1-x</sub> Ag <sub>x</sub> electrodes deposited on polymer based sensors. Applied Surface Science, 2014, 317, 490-495.	3.1	13
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42	Ag-TiN <sub>x</sub> electrodes deposited on piezoelectric poly(vinylidene fluoride) for biomedical sensor applications. <i>Sensors and Actuators A: Physical</i> , 2015, 234, 1-8.	2.0	4
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67	Preparation and characterization of nano-chitin whisker reinforced PVDF membrane with excellent antifouling property. <i>Journal of Membrane Science</i> , 2015, 480, 1-10.	4.1	57
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76	Improvement of electroactive $\beta$ phase nucleation and dielectric properties of WO <sub>3</sub> -H <sub>2</sub> O nanoparticle loaded poly(vinylidene fluoride) thin films. <i>RSC Advances</i> , 2015, 5, 62819-62827.	1.7	41

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996	Modulation in polymer properties in PVDF/BCZT composites with ceramic content and their energy density capabilities. <i>Polymer Composites</i> , 2020, 41, 5305-5316.	2.3	30
997	Understanding the Morphological and Structural Evolution of $\beta$ - and $\gamma$ -Poly(vinylidene fluoride) During High Temperature Uniaxial Stretching by In Situ Synchrotron X-ray Scattering. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 18567-18578.	1.8	5
998	A Comprehensive Review on Corn Starch-Based Nanomaterials: Properties, Simulations, and Applications. <i>Polymers</i> , 2020, 12, 2161.	2.0	33
999	Characterization of $\beta$ -PVDF-based nanogenerators along with Fe <sub>2</sub> O <sub>3</sub> NPs for piezoelectric energy harvesting. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19146-19158.	1.1	10



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1001	Evident improvements in the rigidity, toughness, and electrical conductivity of PVDF/HDPE blend with selectively localized carbon nanotube. <i>Polymer Testing</i> , 2020, 90, 106736.	2.3	18
1002	Kinetics of thermal degradation and lifetime study of poly(vinylidene fluoride) (PVDF) subjected to bioethanol fuel accelerated aging. <i>Heliyon</i> , 2020, 6, e04573.	1.4	51
1003	Core-Shell Nanofibers of Polyvinylidene Fluoride-based Nanocomposites as Piezoelectric Nanogenerators. <i>Polymers</i> , 2020, 12, 2344.	2.0	31
1004	Na <sub>1/3</sub> Ca <sub>1/3</sub> Bi <sub>1/3</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> @Ni@NiO/poly(vinylidene fluoride): Three-phase polymer composites with high dielectric permittivity and low loss tangent. <i>Results in Physics</i> , 2020, 18, 103312.	2.0	11
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1006	Nano-ZnO decorated ZnSnO <sub>3</sub> as efficient fillers in PVDF matrixes: toward simultaneous enhancement of energy storage density and efficiency and improved energy harvesting activity. <i>Nanoscale</i> , 2020, 12, 20908-20921.	2.8	34
1007	Optimization, characterization and evaluation of ZnO/polyvinylidene fluoride nanocomposites for orthopedic applications: improved antibacterial ability and promoted osteoblast growth. <i>Drug Delivery</i> , 2020, 27, 1378-1385.	2.5	16
1008	Multifunctional Artificial Artery from Direct 3D Printing with Built-in Ferroelectricity and Tissue-Matching Modulus for Real-time Sensing and Occlusion Monitoring. <i>Advanced Functional Materials</i> , 2020, 30, 2002868.	7.8	46
1009	Effects of strain rate and temperature on polymorphism in flow-induced crystallization of Poly(vinylidene fluoride). <i>Polymer</i> , 2020, 203, 122773.	1.8	10
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1011	A mixed solvent approach to make poly(vinylidene fluoride) nanofibers with high $\hat{\epsilon}^2$ -phase using solution blow spinning. <i>High Performance Polymers</i> , 2020, 32, 1160-1168.	0.8	8
1012	Structure tailorable triple-phase and pure double-polar-phase flexible IF-WS <sub>2</sub> @poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 267 Materiomics, 2020, 6, 563-572.	2.8	13
1013	Poly(vinylidene fluoride-co-hexafluoropropylene)-MXene Nanosheet Composites for Microcapacitors. <i>ACS Applied Nano Materials</i> , 2020, 3, 7992-8003.	2.4	34
1014	Temperature-dependent dielectric properties of metal-doped ZnO nanofiller reinforced PVDF nanocomposites. <i>Materials Research Bulletin</i> , 2020, 132, 111005.	2.7	20
1015	Tailored piezoelectric performance of self-polarized PVDF@ZnO composites by optimization of aspect ratio of ZnO nanorods. <i>Polymer Composites</i> , 2020, 41, 3351-3363.	2.3	26
1016	Polyvinylidene Fluoride/Hydrogenated Nitrile Rubber-Based Flexible Electroactive Polymer Blend and Its Nanocomposites with Improved Actuated Strain: Characterization and Analysis of Electrostrictive Behavior. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 3413-3424.	1.8	6
1017	Direct generation of electrospun branched nanofibers for energy harvesting. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2659-2666.	1.6	18

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1019	Fluoropolymer-based architectural textiles: production, processing, and characterization. , 2020, , 337-399.		1
1020	PVDF-based shape memory materials. , 2020, , 247-274.		2
1021	Laser Ablation-Assisted Synthesis of Poly (Vinylidene Fluoride)/Au Nanocomposites: Crystalline Phase and Micromechanical Finite Element Analysis. <i>Polymers</i> , 2020, 12, 2630.	2.0	34
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1023	Composite Solid Electrolyte for Solid-State Lithium Batteries Workable at Room Temperature. <i>ACS Applied Energy Materials</i> , 2020, 3, 12127-12133.	2.5	15
1024	Influence of film stretching on crystalline phases and dielectric properties of a 70/30 mol% poly(vinylidene fluoride-tetrafluoroethylene) copolymer. <i>Journal of Advanced Dielectrics</i> , 2020, 10, 2050023.	1.5	8
1025	Preparation, characterization and microhardness measurements of hybrid nanocomposites based on PMMA+P(VDF+TrFE) and graphene oxide. <i>Polymer Bulletin</i> , 2021, 78, 7279-7300.	1.7	9
1026	Cellular Polyolefin Composites as Piezoelectric Materials: Properties and Applications. <i>Polymers</i> , 2020, 12, 2698.	2.0	9
1027	Electrodeposition of bactericidal and bioactive nano-hydroxyapatite onto electrospun piezoelectric polyvinylidene fluoride scaffolds. <i>Journal of Materials Research</i> , 2020, 35, 3265-3275.	1.2	13
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1031	Composites, Fabrication and Application of Polyvinylidene Fluoride for Flexible Electromechanical Devices: A Review. <i>Micromachines</i> , 2020, 11, 1076.	1.4	47
1032	Interfacial Nanostructuring of Poly(vinylidene fluoride) Homopolymer with Predominant Ferroelectric Phases. <i>Langmuir</i> , 2020, 36, 14083-14091.	1.6	19
1033	Metal-Organic Framework Based PVDF Separators for High Rate Cycling Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11907-11919.	2.5	51
1034	Patterned Piezoelectric Scaffolds for Osteogenic Differentiation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8352.	1.8	14
1035	Highly Dielectric Rubber Bearing Cyanoethyl Group with Various Side-Chain Structures. <i>Macromolecules</i> , 2020, 53, 10128-10136.	2.2	6

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1037	BaTiO <sub>3</sub> -PVDF composite film for piezoelectric nanogenerator. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	4
1038	Flexible Piezoelectric Nanogenerators Based on P(VDF-TrFE)/GeSe Nanocomposite Films. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2369-2374.	2.0	25
1039	Enhanced output in polyvinylidene fluoride nanofibers based triboelectric nanogenerator by using printer ink as nano-fillers. <i>Nano Energy</i> , 2020, 77, 105178.	8.2	43
1040	Dielectric relaxation dynamics in poly(vinylidene fluoride)/Pb(Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>3</sub> composites. <i>Polymer</i> , 2020, 204, 122811.	1.8	7
1041	Magnetic field induced formation of ferroelectric $\hat{1}^2$ phase of poly (vinylidene fluoride). <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	11
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1043	Poly(vinylidene) fluoride membranes coated by heparin/collagen layer-by-layer, smart biomimetic approaches for mesenchymal stem cell culture. <i>Materials Science and Engineering C</i> , 2020, 117, 111281.	3.8	22
1044	Beta Phase Crystallization and Ferro- and Piezoelectric Performances of Melt-Processed Poly(vinylidene difluoride) Blends with Poly(methyl methacrylate) Copolymers Containing Ionizable Moieties. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3766-3780.	2.0	12
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1047	Phase composition, crystalline structure and piezoelectric properties of thin films of polyvinylidene fluoride obtained by the spin-coating method. <i>Progress in Organic Coatings</i> , 2020, 147, 105857.	1.9	8
1048	Polyvinylidene fluoride nanofibers with embedded Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> Ta <sub>0.6</sub> O <sub>12</sub> fillers modified polymer electrolytes for high-capacity and long-life all-solid-state lithium metal batteries. <i>Composites Science and Technology</i> , 2020, 200, 108408.	3.8	41
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1050	Na <sub>1/3</sub> Ca <sub>1/3</sub> Bi <sub>1/3</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /poly(vinylidene fluoride) composites with high dielectric permittivity and low dielectric loss. <i>Materials Chemistry and Physics</i> , 2020, 256, 123664.	2.0	14
1051	Multiscale understanding of electric polarization in poly(vinylidene fluoride)-based ferroelectric polymers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16436-16442.	2.7	48
1052	Permittivity tunable by Ti <sub>3</sub> SiC <sub>2</sub> ceramics in sandwich-structured polymer composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19778-19786.	1.1	1
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#	ARTICLE	IF	CITATIONS
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1055	Enhancing the triboelectricity of stretchable electrospun piezoelectric polyvinylidene fluoride/boron nitride nanosheets composite nanofibers. <i>Composites Communications</i> , 2020, 22, 100535.	3.3	22
1056	Ultralight graphene aerogel/PVDF composites for flexible piezoelectric nanogenerators. <i>Composites Communications</i> , 2020, 22, 100542.	3.3	13
1057	High energy density and interfacial polarization in poly(vinylidene fluoride-chlorotrifluoroethylene) nanocomposite incorporated with halloysite nanotube architecture. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125495.	2.3	12
1058	Light-Driven Piezo- and Triboelectricity in Organic-Inorganic Metal Trihalide Perovskite toward Mechanical Energy Harvesting and Self-powered Sensor Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50472-50483.	4.0	46
1059	Blood Oxygenation Using Fluoropolymer-Based Artificial Lung Membranes. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6424-6434.	2.6	31
1060	Transport mechanism of lithium ions in non-coordinating P(VdF-HFP) copolymer matrix. <i>Solid State Ionics</i> , 2020, 357, 115497.	1.3	16
1061	Ferroelectric polymer composite as radio absorbing material (RAM) for 5th generation stealth fighter aircraft. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
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1067	Electron-Beam Irradiation for Boosting Storage Energy Density of Tuned Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT <sub>1.0</sub> /Overlock 10 Tf 50 2	1.0	5
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1069	Tuning the Piezoresistive Behavior of Poly(Vinylidene Fluoride)/Carbon Nanotube Composites Using Poly(Methyl Methacrylate). <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43125-43137.	4.0	23
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#	ARTICLE	IF	CITATIONS
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1075	Enhanced structure, dielectric, and thermal properties of attapulgite clay and hexagonal boron nitride admixture loaded polymer blends. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 17828-17842.	1.1	5
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1079	Development of self-poled PVDF/MWNT flexible nanocomposites with a boosted electroactive $\beta$ -phase. <i>New Journal of Chemistry</i> , 2020, 44, 14578-14591.	1.4	19
1080	Effect of Solvents on Thermomechanical Properties and Piezoelectric Beta-phase of PVDF-TrFE Films. , 2020, , .		3
1081	Formulation, printing, and poling method for piezoelectric films based on PVDF-TrFE. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	15
1082	Characterization of Properties of Poly(vinylidene Fluoride) Using Instrumented Microindentation Test. <i>Macromolecular Symposia</i> , 2020, 394, 2000136.	0.4	1
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1088	Enhancement the electrical conductivity of the synthesized polyvinylidene fluoride/polyvinyl chloride composite doped with palladium nanoparticles via laser ablation. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11178-11188.	2.6	48
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1091	Ultrahigh enhancement rate of the energy density of flexible polymer nanocomposites using core-shell BaTiO <sub>3</sub> @MgO structures as the filler. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11124-11132.	5.2	178
1092	Reprocessed poly(vinylidene fluoride): A comparative approach for mechanical recycling purposes. <i>Materials Today Communications</i> , 2020, 25, 101269.	0.9	5
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1096	Enhanced permittivity in polymer blends via tailoring the orderliness of semiconductive liquid crystalline polymers and intermolecular interactions. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8440-8450.	2.7	31
1097	Can Ferroelectricity Improve Organic Solar Cells?. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000124.	2.0	4
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1105	Nanocellulose Reinforced Flexible Composite Nanogenerators with Enhanced Vibrational Energy Harvesting and Sensing Properties. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2550-2562.	2.0	26
1106	Enhanced magnetoelectric coupling and dielectric constant in flexible ternary composite electrospun fibers of PVDF-HFP loaded with nanoclay and NiFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>New Journal of Chemistry</i> , 2020, 44, 11356-11364.	1.4	26
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1109	Preparation of novel polyvinylidene fluoride (PVDF)-Tin(IV) oxide (SnO <sub>2</sub> ) ion exchange mixed matrix membranes for the removal of heavy metals from aqueous solutions. <i>Separation and Purification Technology</i> , 2020, 250, 117250.	3.9	75
1110	Cardiac energy harvesting and sensing based on piezoelectric and triboelectric designs. <i>Nano Energy</i> , 2020, 76, 105076.	8.2	63
1111	Silica fillers for enhancement of dielectric properties of poly(vinylidene fluoride) and its copolymer. <i>Materials Today: Proceedings</i> , 2020, 29, 1239-1245.	0.9	1
1112	Fabrication of PVDF-transition metal dichalcogenides based flexible piezoelectric Nanogenerator for energy harvesting applications. <i>Materials Today: Proceedings</i> , 2020, 28, 282-285.	0.9	9
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1115	Acquirement of Strong Microwave Absorption of ZnFe <sub>2</sub> O <sub>4</sub> @SiO <sub>2</sub> @Reduced Graphene Oxide/PVDF Composite Membranes by Regulating Crystallization Behavior. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14861-14872.	1.5	24
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1117	Polymer-based actuators: back to the future. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15163-15182.	1.3	41
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1120	Solution Blow Spinning of Polyvinylidene Fluoride Based Fibers for Energy Harvesting Applications: A Review. <i>Polymers</i> , 2020, 12, 1304.	2.0	22
1121	Polymorph enhancement in poly(vinylidene fluoride) by blending with polyamide 6 and barium titanate nanoparticles. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49403.	1.3	4
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1123	Mechano-electric coupling in P(VDF-TrFE)/spin crossover composites. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6042-6051.	2.7	21
1124	PVDF/ZnO composite films for photocatalysis: A comparative study of solution mixing and melt blending methods. <i>Polymer Engineering and Science</i> , 2020, 60, 1146-1157.	1.5	16
1125	Bio-waste orange peel and polymer hybrid for efficient energy harvesting. <i>Energy Reports</i> , 2020, 6, 490-496.	2.5	33

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1127	Electrochemical studies on symmetric solid-state Na-ion full cell using Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> electrodes and polymer composite electrolyte. <i>Journal of Power Sources</i> , 2020, 454, 227954.	4.0	30
1128	High-Performance Piezocomposite Energy Harvesters by Constructing Bionic Ion Channels. <i>Advanced Materials Technologies</i> , 2020, 5, 2000050.	3.0	6
1129	Self-powered triboelectric/pyroelectric multimodal sensors with enhanced performances and decoupled multiple stimuli. <i>Nano Energy</i> , 2020, 72, 104671.	8.2	44
1130	Flexible lead-free PVDF/SM-KNN electrospun nanocomposite based piezoelectric materials: Significant enhancement of energy harvesting efficiency of the nanogenerator. <i>Energy</i> , 2020, 198, 117385.	4.5	55
1131	A flexible piezoelectric pressure sensor based on PVDF nanocomposite fibers doped with PZT particles for energy harvesting applications. <i>Ceramics International</i> , 2020, 46, 19669-19681.	2.3	120
1133	Piezofibers to smart textiles: a review on recent advances and future outlook for wearable technology. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9496-9522.	5.2	102
1134	Piezoresponse in self oriented ultrathin Poly (vinylidene fluoride) supported on graphene oxide. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SN1006.	0.8	2
1135	Synergistic effects of stretching/polarization temperature and electric field on phase transformation and piezoelectric properties of polyvinylidene fluoride nanofilms. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	5
1136	Ionic Liquid-Polymer Composites: A New Platform for Multifunctional Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909736.	7.8	197
1137	A Flexible Film Bulk Acoustic Resonator Based on $\beta$ -Phase Polyvinylidene Fluoride Polymer. <i>Sensors</i> , 2020, 20, 1346.	2.1	14
1138	Fabrication of Poly(vinylidene fluoride)/Multiwalled carbon nanotube nanocomposite foam via supercritical fluid carbon dioxide: Synergistic enhancement of piezoelectric and mechanical properties. <i>Composites Science and Technology</i> , 2020, 192, 108108.	3.8	43
1139	The Effect of Crystalline Microstructure of PVDF Binder on Mechanical and Electrochemical Performance of Lithium-Ion Batteries Cathode. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 381-397.	1.4	11
1140	A hybrid piezoelectric nanogenerator comprising of KNN/ZnO nanorods incorporated PVDF electrospun nanocomposite webs. <i>International Journal of Energy Research</i> , 2020, 44, 5545-5563.	2.2	53
1141	Double-step moulding: An effective method to induce the formation of $\beta$ -phase in PVDF. <i>Polymer</i> , 2020, 193, 122345.	1.8	22
1142	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. <i>Sensors</i> , 2020, 20, 3624.	2.1	33
1143	Relationship between the Relative Dielectric Constant and the Monomer Sequence of Acrylonitrile in Rubber. <i>ACS Omega</i> , 2020, 5, 16255-16262.	1.6	6
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1146	Flexible Piezoelectric Pressure Tactile Sensor Based on Electrospun BaTiO <sub>3</sub> /Poly(vinylidene fluoride) Nanocomposite Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33989-33998.	4.0	150
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1151	Triboelectric generators made of mechanically robust PVDF films as self-powered autonomous sensors for wireless transmission based remote security systems. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15023-15033.	5.2	30
1152	Enhancement of $\hat{I}^2$ -Phase Crystal Content of Poly(vinylidene fluoride) Nanofiber Web by Graphene and Electrospinning Parameters. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 1239-1247.	2.0	17
1153	Enhanced thermal conductivity by constructing 3D-networks in poly(vinylidene fluoride) composites via positively charged hexagonal boron nitride and silica coated carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 137, 106038.	3.8	36
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1159	Piezoelectric polymer films: synthesis, applications, and modeling. , 2020, , 79-101.		4
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1164	Electrospinning core-sheath piezoelectric microfibers for self-powered stitchable sensor. <i>Nano Energy</i> , 2020, 76, 104966.	8.2	62
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1166	Effect of Illite on Crystallization of Poly(vinylidene fluoride). <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 3438-3445.	1.8	11
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1170	On mechanical and surface properties of electro-active polymer matrix-based 3D printed functionally graded prototypes. <i>Journal of Thermoplastic Composite Materials</i> , 2022, 35, 615-630.	2.6	17
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1177	Photocatalytic and antimicrobial multifunctional nanocomposite membranes for emerging pollutants water treatment applications. <i>Chemosphere</i> , 2020, 250, 126299.	4.2	95
1178	Graphene oxide assists polyvinylidene fluoride scaffold to reconstruct electrical microenvironment of bone tissue. <i>Materials and Design</i> , 2020, 190, 108564.	3.3	81
1179	Emulsion copolymerization of vinylidene fluoride (VDF) with perfluoromethyl vinyl ether (PMVE). <i>Polymer Chemistry</i> , 2020, 11, 2430-2440.	1.9	8
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1182	Electroactive $\beta$ -Phase, Enhanced Thermal and Mechanical Properties and High Ionic Conductivity Response of Poly (Vinylidene Fluoride)/Cellulose Nanocrystal Hybrid Nanocomposites. <i>Materials</i> , 2020, 13, 743.	1.3	15
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1190	Recent Advances in Organic Piezoelectric Biomaterials for Energy and Biomedical Applications. <i>Nanomaterials</i> , 2020, 10, 123.	1.9	89
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1198	Significant enhancement of dielectric permittivity and percolation behaviour of La <sub>2x</sub> Sr <sub>1-x</sub> NiO <sub>4</sub> /poly(vinylidene fluoride) composites with different Sr doping concentrations. <i>RSC Advances</i> , 2020, 10, 2747-2756.	1.7	7

#	ARTICLE	IF	CITATIONS
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1203	Expected lifetime of fibrous nanogenerator exposed to cyclic compressive pressure. <i>Journal of Industrial Textiles</i> , 2022, 51, 4493S-4505S.	1.1	6
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1205	Robust flower-like ZnO assembled $\text{P(VDF-TrFE)}$ hybrid nanocomposite: Excellent energy harvester. <i>Polymer Testing</i> , 2020, 88, 106564.	2.3	14
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1228	Poly(vinylidene fluoride) with zinc oxide and carbon nanotubes applied to pressure sheath layers in oil and gas pipelines. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50157.	1.3	11
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1259	Improved dielectric properties of poly(vinylidene fluoride)-BaTiO <sub>3</sub> composites by solvent-free processing. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50049.	1.3	11
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1331	Theoretical optimization of magnetoelectric multilayer laminates. <i>Composites Science and Technology</i> , 2021, 204, 108642.	3.8	4
1332	Lithium-Irradiated Poly(vinylidene fluoride) Nanohybrid Membrane for Radionuclide Waste Management and Tracing. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2005-2017.	2.0	5
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1334	Piezoelectric properties of <sc>PVDF</sc>-conjugated polymer nanofibers. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50665.	1.3	23
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1363	Nickel-Decorated Silver Nanowires for Polymer-Based Magnetolectric Composite. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100037.	0.8	0
1364	Recovery and Reuse of Composite Cathode Binder in Lithium Ion Batteries. <i>ChemistryOpen</i> , 2021, 10, 545-552.	0.9	19
1365	A solid-like dual-salt polymer electrolyte for Li-metal batteries capable of stable operation over an extended temperature range. <i>Energy Storage Materials</i> , 2021, 37, 609-618.	9.5	49
1366	Morphology of Small Diameter Barium Titanate Nanoparticle and Polyvinylidene Difluoride-Trifluoroethylene Composites. , 2021, , .		0
1367	Proton conducting solid electrolyte-piezoelectric PVDF hybrids: Novel bifunctional separator for self-charging supercapacitor power cell. <i>Nano Energy</i> , 2021, 83, 105753.	8.2	43
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1370	Facile fabrication of leaf coral-like structured Cu-Al LDH/PVDF composite adsorptive membrane with enhanced adsorption performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 267, 115086.	1.7	22
1371	Comparative Assessment of Ionic Liquid-Based Soft Actuators Prepared by Film Casting Versus Direct Ink Writing. <i>Advanced Engineering Materials</i> , 2021, 23, 2100411.	1.6	9
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1374	Enhanced Flexible Poly(vinylidene fluoride-trifluoroethylene) Piezoelectric Nanogenerators by SnSe Nanosheet Doping and Solvent Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32278-32285.	4.0	16
1375	A Novel Strategy to Fabricate Core-Sheath Structure Piezoelectric Yarns for Wearable Energy Harvesters. <i>Advanced Fiber Materials</i> , 2021, 3, 239-250.	7.9	53
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1388	Enhanced osteogenic differentiation of mesenchymal stem cells on P(VDF-TrFE) layer coated microelectrodes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 2227-2236.	1.6	11
1389	Ultrafine PVDF Nanofibers for Filtration of Air-Borne Particulate Matters: A Comprehensive Review. Polymers, 2021, 13, 1864.	2.0	29
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1391	Fabrication of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate)/Poly(vinylidene fluoride) Nanofiber-Web-Based Transparent Conducting Electrodes for Dye-Sensitized Photovoltaic Textiles. ACS Applied Materials & Interfaces, 2021, 13, 28855-28863.	4.0	12
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1399	Electrospun Silsequioxane-grafted PVDF hybrid membranes for high-performance rechargeable lithium batteries. <i>Composites Part B: Engineering</i> , 2021, 215, 108849.	5.9	16
1400	Impact of poly( $\epsilon$ -caprolactone) on the thermal, $\langle$ dynamic $\rangle$ mechanical $\rangle$ and crystallization behavior of poly(vinylidene fluoride)/poly( $\epsilon$ -caprolactone) blends in the presence of $\langle$ KIT $\rangle$ mesoporous particles. <i>Polymers for Advanced Technologies</i> , 2021, 32, 4424-4439.	1.6	11
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1403	Influence of Different Solvents and High-Electric-Field Cycling on Morphology and Ferroelectric Behavior of Poly(Vinylidene Fluoride-Hexafluoropropylene) Films. <i>Materials</i> , 2021, 14, 3884.	1.3	2
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1405	Tuning of Electrode Surface for Enhanced Bacterial Adhesion and Reactions: A Review on Recent Approaches. <i>ACS Applied Bio Materials</i> , 2021, 4, 5809-5838.	2.3	12
1406	The Application of Controlled/Living Radical Polymerization in Modification of PVDF-based Fluoropolymer. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1110-1126.	2.0	17
1407	Scalable manufacturing of flexible, durable Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene/Polyvinylidene fluoride film for multifunctional electromagnetic interference shielding and electro/photo-thermal conversion applications. <i>Composites Part B: Engineering</i> , 2021, 217, 108902.	5.9	85
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1409	Electrospun Polymer-Derived Carbyne Supercapacitor for Alternating Current Line Filtering. <i>Small</i> , 2021, 17, e2102971.	5.2	30
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1412	Melt electrowriting of poly(vinylidene fluoride-co-trifluoroethylene). <i>Polymer International</i> , 2021, 70, 1725-1732.	1.6	6
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#	ARTICLE	IF	CITATIONS
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1417	High-dielectric mouldable and printable wax reinforced with ceramic nanofillers and its suitability for capacitive sensing. <i>Flexible and Printed Electronics</i> , 2021, 6, 035005.	1.5	3
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1423	Surface Analyses of PVDF/NMP/[EMIM][TFSI] Solid Polymer Electrolyte. <i>Polymers</i> , 2021, 13, 2678.	2.0	17
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1425	Exploring electroactive microenvironments in polymer-based nanocomposites to sensitize bacterial cells to low-dose embedded silver nanoparticles. <i>Acta Biomaterialia</i> , 2022, 139, 237-248.	4.1	11
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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