

Senentxu Lanceros-mendez

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725
papers

20,816
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67
h-index

112
g-index

786
ext. papers

24,550
ext. citations

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avg, IF

7.45
L-index

#	Paper	IF	Citations
725	Electroactive phases of poly(vinylidene fluoride): Determination, processing and applications. <i>Progress in Polymer Science</i> , 2014 , 39, 683-706	29.6	1743
724	β to γ Phase Transformation and Microstructural Changes of PVDF Films Induced by Uniaxial Stretch. <i>Journal of Macromolecular Science - Physics</i> , 2009 , 48, 514-525	1.4	383
723	Electroactive poly(vinylidene fluoride)-based structures for advanced applications. <i>Nature Protocols</i> , 2018 , 13, 681-704	18.8	320
722	FTIR AND DSC STUDIES OF MECHANICALLY DEFORMED γPVDF FILMS. <i>Journal of Macromolecular Science - Physics</i> , 2001 , 40, 517-527	1.4	303
721	Influence of the β phase content and degree of crystallinity on the piezo- and ferroelectric properties of poly(vinylidene fluoride). <i>Smart Materials and Structures</i> , 2010 , 19, 065010	3.4	286
720	Advances in Magnetic Nanoparticles for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700845	10.1	277
719	Piezoelectric polymers as biomaterials for tissue engineering applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 136, 46-55	6	274
718	Polymer-Based Magnetoelectric Materials. <i>Advanced Functional Materials</i> , 2013 , 23, 3371-3385	15.6	244
717	Battery separators based on vinylidene fluoride (VDF) polymers and copolymers for lithium ion battery applications. <i>RSC Advances</i> , 2013 , 3, 11404	3.7	227
716	Nucleation of the Electroactive β Phase and Enhancement of the Optical Transparency in Low Filler Content Poly(vinylidene)/Clay Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18076-18082	3.8	216
715	Influence of Processing Conditions on Polymorphism and Nanofiber Morphology of Electroactive Poly(vinylidene fluoride) Electrospun Membranes. <i>Soft Materials</i> , 2010 , 8, 274-287	1.7	201
714	On the origin of the electroactive poly(vinylidene fluoride) β phase nucleation by ferrite nanoparticles via surface electrostatic interactions. <i>CrystEngComm</i> , 2012 , 14, 2807	3.3	198
713	Polymer composites and blends for battery separators: State of the art, challenges and future trends. <i>Journal of Power Sources</i> , 2015 , 281, 378-398	8.9	185
712	Effect of filler size and concentration on the structure and properties of poly(vinylidene fluoride)/BaTiO ₃ nanocomposites. <i>Journal of Materials Science</i> , 2012 , 47, 1378-1388	4.3	183
711	Role of Nanoparticle Surface Charge on the Nucleation of the Electroactive β Poly(vinylidene fluoride) Nanocomposites for Sensor and Actuator Applications. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15790-15794	3.8	176
710	Energy Harvesting From Piezoelectric Materials Fully Integrated in Footwear. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 813-819	8.9	160
709	Processing and characterization of a novel nonporous poly(vinylidene fluoride) films in the β phase. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 2226-2229	3.9	150

708	Nucleation of electroactive β phase poly(vinylidene fluoride) with CoFe_2O_4 and NiFe_2O_4 nanofillers: a new method for the preparation of multiferroic nanocomposites. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 233-237	2.6	144
707	Effect of carbon nanotube type and functionalization on the electrical, thermal, mechanical and electromechanical properties of carbon nanotube/styrene-butadiene-styrene composites for large strain sensor applications. <i>Composites Part B: Engineering</i> , 2014 , 61, 136-146	10	135
706	Fluorinated Polymers as Smart Materials for Advanced Biomedical Applications. <i>Polymers</i> , 2018 , 10,	4.5	133
705	Recent advances on separator membranes for lithium-ion battery applications: From porous membranes to solid electrolytes. <i>Energy Storage Materials</i> , 2019 , 22, 346-375	19.4	127
704	Poly(vinylidene fluoride)-based, co-polymer separator electrolyte membranes for lithium-ion battery systems. <i>Journal of Power Sources</i> , 2014 , 245, 779-786	8.9	123
703	Influence of nitrogen content on the structural, mechanical and electrical properties of TiN thin films. <i>Surface and Coatings Technology</i> , 2005 , 191, 317-323	4.4	118
702	State-of-the-Art and Future Challenges of UV Curable Polymer-Based Smart Materials for Printing Technologies. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800618	6.8	117
701	The effect of fibre concentration on the β to β phase transformation, degree of crystallinity and electrical properties of vapour grown carbon nanofibre/poly(vinylidene fluoride) composites. <i>Carbon</i> , 2009 , 47, 2590-2599	10.4	112
700	Dielectric and magnetic properties of ferrite/poly(vinylidene fluoride) nanocomposites. <i>Materials Chemistry and Physics</i> , 2012 , 131, 698-705	4.4	110
699	Electromechanical performance of poly(vinylidene fluoride)/carbon nanotube composites for strain sensor applications. <i>Sensors and Actuators A: Physical</i> , 2012 , 178, 10-16	3.9	110
698	Energy harvesting performance of piezoelectric electrospun polymer fibers and polymer/ceramic composites. <i>Sensors and Actuators A: Physical</i> , 2013 , 196, 55-62	3.9	110
697	Optimizing piezoelectric and magnetoelectric responses on $\text{CoFe}_2\text{O}_4/\text{P}(\text{VDF-TrFE})$ nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 495303	3	110
696	Influence of ferrite nanoparticle type and content on the crystallization kinetics and electroactive phase nucleation of poly(vinylidene fluoride). <i>Langmuir</i> , 2011 , 27, 7241-9	4	109
695	Dynamic piezoelectric stimulation enhances osteogenic differentiation of human adipose stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2172-5	5.4	107
694	Effect of poling state and morphology of piezoelectric poly(vinylidene fluoride) membranes for skeletal muscle tissue engineering. <i>RSC Advances</i> , 2013 , 3, 17938	3.7	103
693	Characterization of poled and non-poled β PVDF films using thermal analysis techniques. <i>Thermochimica Acta</i> , 2004 , 424, 201-207	2.9	102
692	Proving the suitability of magnetoelectric stimuli for tissue engineering applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 140, 430-436	6	99
691	Micro and nanofilms of poly(vinylidene fluoride) with controlled thickness, morphology and electroactive crystalline phase for sensor and actuator applications. <i>Smart Materials and Structures</i> , 2011 , 20, 087002	3.4	96

690	Effect of degree of porosity on the properties of poly(vinylidene fluoride)trifluoroethylene) for Li-ion battery separators. <i>Journal of Membrane Science</i> , 2012 , 407-408, 193-201	9.6	95
689	Bacterial cellulose-lactoferrin as an antimicrobial edible packaging. <i>Food Hydrocolloids</i> , 2016 , 58, 126-140	10.6	94
688	Low percolation transitions in carbon nanotube networks dispersed in a polymer matrix: dielectric properties, simulations and experiments. <i>Nanotechnology</i> , 2009 , 20, 035703	3.4	94
687	Tailoring the morphology and crystallinity of poly(L-lactide acid) electrospun membranes. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 015001	7.1	93
686	Ionic LiquidPolymer Composites: A New Platform for Multifunctional Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909736	15.6	92
685	Advances and Future Challenges in Printed Batteries. <i>ChemSusChem</i> , 2015 , 8, 3539-55	8.3	92
684	Dielectric relaxation, ac conductivity and electric modulus in poly(vinylidene fluoride)/NaY zeolite composites. <i>Solid State Ionics</i> , 2013 , 235, 42-50	3.3	89
683	Relationship between processing conditions, defects and thermal degradation of poly(vinylidene fluoride) in the β phase. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 72-78	3.9	89
682	Tailored Magnetic and Magnetoelectric Responses of Polymer-Based Composites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15017-22	9.5	86
681	Recent Advances in Poly(vinylidene fluoride) and Its Copolymers for Lithium-Ion Battery Separators. <i>Membranes</i> , 2018 , 8,	3.8	84
680	New technique of processing highly oriented poly(vinylidene fluoride) films exclusively in the β phase. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 2793-2801	2.6	84
679	Reusability of photocatalytic TiO ₂ and ZnO nanoparticles immobilized in poly(vinylidene difluoride)-co-trifluoroethylene. <i>Applied Surface Science</i> , 2016 , 384, 497-504	6.7	83
678	Enhanced proliferation of pre-osteoblastic cells by dynamic piezoelectric stimulation. <i>RSC Advances</i> , 2012 , 2, 11504	3.7	82
677	β and β PVDF: Crystallization kinetics, microstructural variations and thermal behaviour. <i>Materials Chemistry and Physics</i> , 2010 , 122, 87-92	4.4	82
676	Polymer-based smart materials by printing technologies: Improving application and integration. <i>Additive Manufacturing</i> , 2018 , 21, 269-283	6.1	81
675	Determination of the parameters affecting electrospun chitosan fiber size distribution and morphology. <i>Carbohydrate Polymers</i> , 2012 , 87, 1295-1301	10.3	80
674	Energy harvesting performance of BaTiO ₃ /poly(vinylidene fluoride)trifluoroethylene) spin coated nanocomposites. <i>Composites Part B: Engineering</i> , 2015 , 72, 130-136	10	78
673	Correlation between crystallization kinetics and electroactive polymer phase nucleation in ferrite/poly(vinylidene fluoride) magnetoelectric nanocomposites. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 794-801	3.4	78

672	Dynamic mechanical analysis and creep behaviour of PVDF films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 370, 336-340	5.3	78
671	PHB-PEO electrospun fiber membranes containing chlorhexidine for drug delivery applications. <i>Polymer Testing</i> , 2014 , 34, 64-71	4.5	76
670	Poly(vinylidene fluoride) and copolymers as porous membranes for tissue engineering applications. <i>Polymer Testing</i> , 2015 , 44, 234-241	4.5	76
669	Phase Transformation on PVDF Films Obtained by Uniaxial Stretch. <i>Materials Science Forum</i> , 2006 , 514-516, 872-876	0.4	76
668	Local variation of the dielectric properties of poly(vinylidene fluoride) during the phase transformation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 177-180	2.3	75
667	Linear anhysteretic direct magnetoelectric effect in Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ /poly(vinylidene fluoride-trifluoroethylene) 0-3 nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 482001	3	72
666	Differentiation of mesenchymal stem cells for cartilage tissue engineering: Individual and synergetic effects of three-dimensional environment and mechanical loading. <i>Acta Biomaterialia</i> , 2016 , 33, 1-12	10.8	71
665	Piezoelectric poly(vinylidene fluoride) microstructure and poling state in active tissue engineering. <i>Engineering in Life Sciences</i> , 2015 , 15, 351-356	3.4	70
664	Development of inkjet printed strain sensors. <i>Smart Materials and Structures</i> , 2013 , 22, 105028	3.4	70
663	Development of magnetoelectric CoFe ₂ O ₄ /poly(vinylidene fluoride) microspheres. <i>RSC Advances</i> , 2015 , 5, 35852-35857	3.7	69
662	Effect of filler dispersion and dispersion method on the piezoelectric and magnetoelectric response of CoFe ₂ O ₄ /P(VDF-TrFE) nanocomposites. <i>Applied Surface Science</i> , 2014 , 313, 215-219	6.7	69
661	Optimization of the magnetoelectric response of poly(vinylidene fluoride)/epoxy/Vitrovac laminates. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10912-9	9.5	69
660	Fibronectin adsorption and cell response on electroactive poly(vinylidene fluoride) films. <i>Biomedical Materials (Bristol)</i> , 2012 , 7, 035004	3.5	69
659	Silk fibroin-magnetic hybrid composite electrospun fibers for tissue engineering applications. <i>Composites Part B: Engineering</i> , 2018 , 141, 70-75	10	68
658	TiO ₂ /graphene and TiO ₂ /graphene oxide nanocomposites for photocatalytic applications: A computer modeling and experimental study. <i>Composites Part B: Engineering</i> , 2018 , 145, 39-46	10	66
657	High-performance graphene-based carbon nanofiller/polymer composites for piezoresistive sensor applications. <i>Composites Science and Technology</i> , 2017 , 153, 241-252	8.6	66
656	Effect of the ceramic grain size and concentration on the dynamical mechanical and dielectric behavior of poly(vinylidene fluoride)/Pb(Zr _{0.53} Ti _{0.47})O ₃ composites. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 96, 899-908	2.6	66
655	Photocatalytic reusable membranes for the effective degradation of tartrazine with a solar photoreactor. <i>Journal of Hazardous Materials</i> , 2018 , 344, 408-416	12.8	66

654	Electro-mechanical properties of triblock copolymer styreneButadieneStyrene/carbon nanotube composites for large deformation sensor applications. <i>Sensors and Actuators A: Physical</i> , 2013 , 201, 458-467	3.9	65
653	Extruded thermoplastic elastomers styreneButadieneStyrene/carbon nanotubes composites for strain sensor applications. <i>Composites Part B: Engineering</i> , 2014 , 57, 242-249	10	64
652	Effect of anion type in the performance of ionic liquid/poly(vinylidene fluoride) electromechanical actuators. <i>Journal of Non-Crystalline Solids</i> , 2016 , 453, 8-15	3.9	64
651	Effect of ionic liquid anion and cation on the physico-chemical properties of poly(vinylidene fluoride)/ionic liquid blends. <i>European Polymer Journal</i> , 2015 , 71, 304-313	5.2	63
650	Evaluation of dielectric models for ceramic/polymer composites: Effect of filler size and concentration. <i>Journal of Non-Crystalline Solids</i> , 2014 , 387, 6-15	3.9	63
649	Aluminosilicate and aluminosilicate based polymer composites: Present status, applications and future trends. <i>Progress in Surface Science</i> , 2014 , 89, 239-277	6.6	62
648	Tailoring porous structure of ferroelectric poly(vinylidene fluoride-trifluoroethylene) by controlling solvent/polymer ratio and solvent evaporation rate. <i>European Polymer Journal</i> , 2011 , 47, 2442-2450	5.2	62
647	Electrosprayed poly(vinylidene fluoride) microparticles for tissue engineering applications. <i>RSC Advances</i> , 2014 , 4, 33013-33021	3.7	61
646	Relaxation dynamics of poly(vinylidene fluoride) studied by dynamical mechanical measurements and dielectric spectroscopy. <i>European Physical Journal E</i> , 2012 , 35, 41	1.5	61
645	Novel Anisotropic Magnetoelectric Effect on P(VDF-TrFE)/P(VDF-TrFE) Multiferroic Composites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11224-9	9.5	60
644	Microstructural variations of poly(vinylidene fluoride co-hexafluoropropylene) and their influence on the thermal, dielectric and piezoelectric properties. <i>Polymer Testing</i> , 2014 , 40, 245-255	4.5	60
643	Mechanical, electrical and electro-mechanical properties of thermoplastic elastomer styreneButadieneStyrene/multiwall carbon nanotubes composites. <i>Journal of Materials Science</i> , 2013 , 48, 1172-1179	4.3	60
642	Electrospun silk-elastin-like fibre mats for tissue engineering applications. <i>Biomedical Materials (Bristol)</i> , 2013 , 8, 065009	3.5	60
641	Influence of oxygen plasma treatment parameters on poly(vinylidene fluoride) electrospun fiber mats wettability. <i>Progress in Organic Coatings</i> , 2015 , 85, 151-158	4.8	59
640	Magnetoelectric CoFe ₂ O ₄ /polyvinylidene fluoride electrospun nanofibres. <i>Nanoscale</i> , 2015 , 7, 8058-61	7.7	59
639	TiO ₂ /graphene oxide immobilized in P(VDF-TrFE) electrospun membranes with enhanced visible-light-induced photocatalytic performance. <i>Journal of Materials Science</i> , 2016 , 51, 6974-6986	4.3	59
638	Energy harvesting device based on a metallic glass/PVDF magnetoelectric laminated composite. <i>Smart Materials and Structures</i> , 2015 , 24, 065024	3.4	57
637	Understanding nucleation of the electroactive P phase of poly(vinylidene fluoride) by nanostructures. <i>RSC Advances</i> , 2016 , 6, 113007-113015	3.7	57

636	Microporous membranes of NaY zeolite/poly(vinylidene fluoride-trifluoroethylene) for Li-ion battery separators. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 689, 223-232	4.1	57
635	Degradation of the dielectric and piezoelectric response of poly(vinylidene fluoride) after temperature annealing. <i>Journal of Polymer Research</i> , 2011 , 18, 1451-1457	2.7	57
634	Bioinspired Three-Dimensional Magnetoactive Scaffolds for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45265-45275	9.5	56
633	Improving Photocatalytic Performance and Recyclability by Development of Er-Doped and Er/Pr-Codoped TiO ₂ /Poly(vinylidene difluoride)-trifluoroethylene Composite Membranes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27944-27953	3.8	56
632	Influence of the chemical and electronic structure on the electrical behavior of zirconium oxynitride films. <i>Journal of Applied Physics</i> , 2008 , 103, 104907	2.5	56
631	Development of water-based printable piezoresistive sensors for large strain applications. <i>Composites Part B: Engineering</i> , 2017 , 112, 344-352	10	55
630	Lithium ion rechargeable batteries: State of the art and future needs of microscopic theoretical models and simulations. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 739, 97-110	4.1	55
629	Thermal and hydrolytic degradation of electrospun fish gelatin membranes. <i>Polymer Testing</i> , 2013 , 32, 995-1000	4.5	55
628	Influence of crystallinity and fiber orientation on hydrophobicity and biological response of poly(L-lactide) electrospun mats. <i>Soft Matter</i> , 2012 , 8, 5818	3.6	54
627	Polymers for advanced lithium-ion batteries: State of the art and future needs on polymers for the different battery components. <i>Progress in Energy and Combustion Science</i> , 2020 , 79, 100846	33.6	53
626	Synthesis of iron-doped TiO ₂ nanoparticles by ball-milling process: the influence of process parameters on the structural, optical, magnetic, and photocatalytic properties. <i>Journal of Materials Science</i> , 2014 , 49, 7476-7488	4.3	53
625	Mechanical vs. electrical hysteresis of carbon nanotube/styrene-butadiene-styrene composites and their influence in the electromechanical response. <i>Composites Science and Technology</i> , 2015 , 109, 1-5	8.6	51
624	Porous Membranes of Montmorillonite/Poly(vinylidene fluoride-trifluoroethylene) for Li-Ion Battery Separators. <i>Electroanalysis</i> , 2012 , 24, 2147-2156	3	51
623	Recent Progress on Piezoelectric, Pyroelectric, and Magnetoelectric Polymer-Based Energy-Harvesting Devices. <i>Energy Technology</i> , 2019 , 7, 1800852	3.5	50
622	Enhancement of adhesion and promotion of osteogenic differentiation of human adipose stem cells by poled electroactive poly(vinylidene fluoride). <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 919-28	5.4	50
621	Nanoparticle size and concentration dependence of the electroactive phase content and electrical and optical properties of Ag/poly(vinylidene fluoride) composites. <i>ChemPhysChem</i> , 2013 , 14, 1926-33	3.2	49
620	Silica/poly(vinylidene fluoride) porous composite membranes for lithium-ion battery separators. <i>Journal of Membrane Science</i> , 2018 , 564, 842-851	9.6	48
619	Relationship between electromechanical response and percolation threshold in carbon nanotube/poly(vinylidene fluoride) composites. <i>Carbon</i> , 2013 , 61, 568-576	10.4	48

618	In vivo demonstration of the suitability of piezoelectric stimuli for bone reparation. <i>Materials Letters</i> , 2017 , 209, 118-121	3.3	48
617	Local piezoelectric activity of single poly(L-lactic acid) (PLLA) microfibers. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 109, 51-55	2.6	48
616	Improving the optical and electroactive response of poly(vinylidene fluoride-trifluoroethylene) spin-coated films for sensor and actuator applications. <i>Smart Materials and Structures</i> , 2012 , 21, 085020	3.4	48
615	The piezoresistive effect in polypropylene-carbon nanofibre composites obtained by shear extrusion. <i>Smart Materials and Structures</i> , 2010 , 19, 065013	3.4	48
614	Recycling and environmental issues of lithium-ion batteries: Advances, challenges and opportunities. <i>Energy Storage Materials</i> , 2021 , 37, 433-465	19.4	48
613	High performance screen-printed electrodes prepared by a green solvent approach for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 334, 65-77	8.9	48
612	Bacterial cellulose as a support for the growth of retinal pigment epithelium. <i>Biomacromolecules</i> , 2015 , 16, 1341-51	6.9	46
611	Strategies for the development of three dimensional scaffolds from piezoelectric poly(vinylidene fluoride). <i>Materials and Design</i> , 2016 , 92, 674-681	8.1	46
610	Kinetic study of thermal degradation of chitosan as a function of deacetylation degree. <i>Carbohydrate Polymers</i> , 2017 , 167, 52-58	10.3	45
609	High performance electromechanical actuators based on ionic liquid/poly(vinylidene fluoride). <i>Polymer Testing</i> , 2015 , 48, 199-205	4.5	45
608	State of the art and open questions on cathode preparation based on carbon coated lithium iron phosphate. <i>Composites Part B: Engineering</i> , 2015 , 83, 333-345	10	45
607	Photocatalytic and antimicrobial multifunctional nanocomposite membranes for emerging pollutants water treatment applications. <i>Chemosphere</i> , 2020 , 250, 126299	8.4	45
606	Metallic Glass/PVDF Magnetoelectric Laminates for Resonant Sensors and Actuators: A Review. <i>Sensors</i> , 2017 , 17,	3.8	45
605	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	3.9	45
604	Improved performance of rare earth doped LiMn ₂ O ₄ cathodes for lithium-ion battery applications. <i>New Journal of Chemistry</i> , 2016 , 40, 6244-6252	3.6	45
603	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	10	44
602	Surface roughness dependent osteoblast and fibroblast response on poly(L-lactide) films and electrospun membranes. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2260-8	5.4	43
601	Multilayer spin-coating deposition of poly(vinylidene fluoride) films for controlling thickness and piezoelectric response. <i>Sensors and Actuators A: Physical</i> , 2013 , 192, 76-80	3.9	43

600	Atomistic modelling of processes involved in poling of PVDF. <i>Computational Materials Science</i> , 2005 , 33, 230-236	3.2	42
599	Property change in multifunctional TiCxOy thin films: Effect of the O/Ti ratio. <i>Thin Solid Films</i> , 2006 , 515, 866-871	2.2	42
598	Relation between fiber orientation and mechanical properties of nano-engineered poly(vinylidene fluoride) electrospun composite fiber mats. <i>Composites Part B: Engineering</i> , 2018 , 139, 146-154	10	42
597	Ionic Liquid Cation Size-Dependent Electromechanical Response of Ionic Liquid/Poly(vinylidene fluoride)-Based Soft Actuators. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	41
596	Determination of the magnetostrictive response of nanoparticles via magnetoelectric measurements. <i>Nanoscale</i> , 2015 , 7, 9457-61	7.7	41
595	Recent advances and future challenges in printed batteries. <i>Energy Storage Materials</i> , 2020 , 28, 216-234	19.4	41
594	Interface characterization and thermal degradation of ferrite/poly(vinylidene fluoride) multiferroic nanocomposites. <i>Journal of Materials Science</i> , 2013 , 48, 2681-2689	4.3	41
593	Variation of the physicochemical and morphological characteristics of solvent casted poly(vinylidene fluoride) along its binary phase diagram with dimethylformamide. <i>Journal of Non-Crystalline Solids</i> , 2015 , 412, 16-23	3.9	41
592	Effect of filler dispersion on the electromechanical response of epoxy/vapor-grown carbon nanofiber composites. <i>Smart Materials and Structures</i> , 2012 , 21, 075008	3.4	41
591	Relationship between the microstructure and the microscopic piezoelectric response of the β and γ phases of poly(vinylidene fluoride). <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 875-880	2.6	41
590	PVD-Grown photocatalytic TiO ₂ thin films on PVDF substrates for sensors and actuators applications. <i>Thin Solid Films</i> , 2008 , 517, 1161-1166	2.2	41
589	Green solvent approach for printable large deformation thermoplastic elastomer based piezoresistive sensors and their suitability for biomedical applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 2092-2103	2.6	41
588	Development of poly(vinylidene fluoride)/ionic liquid electrospun fibers for tissue engineering applications. <i>Journal of Materials Science</i> , 2016 , 51, 4442-4450	4.3	40
587	Physical-chemical properties of cross-linked chitosan electrospun fiber mats. <i>Polymer Testing</i> , 2012 , 31, 1062-1069	4.5	40
586	Piezoresistive response of extruded polyaniline/(styrene-butadiene-styrene) polymer blends for force and deformation sensors. <i>Materials and Design</i> , 2018 , 141, 1-8	8.1	39
585	Cellulose-based magnetoelectric composites. <i>Nature Communications</i> , 2017 , 8, 38	17.4	39
584	Thermomechanical behaviour of chitosan/cellulose derivative thermoreversible hydrogel films. <i>Cellulose</i> , 2015 , 22, 1911-1929	5.5	38
583	On the Relevance of the Polar β Phase of Poly(vinylidene fluoride) for High Performance Lithium-Ion Battery Separators. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26216-26225	3.8	38

582	Local piezoelectric response of single poly(vinylidene fluoride) electrospun fibers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2605-2609	1.6	38
581	Effect of the carbon nanotube surface characteristics on the conductivity and dielectric constant of carbon nanotube/poly(vinylidene fluoride) composites. <i>Nanoscale Research Letters</i> , 2011 , 6, 302	5	38
580	Influence of silver nanoparticles concentration on the alpha- to beta-phase transformation and the physical properties of silver nanoparticles doped poly(vinylidene fluoride) nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 2910-6	1.3	38
579	High performance screen printable lithium-ion battery cathode ink based on C-LiFePO ₄ . <i>Electrochimica Acta</i> , 2016 , 196, 92-100	6.7	38
578	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	6.7	38
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