

Senentxu Lanceros-mendez

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/857268/senentxu-lanceros-mendez-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

725
papers

20,816
citations

67
h-index

112
g-index

786
ext. papers

24,550
ext. citations

4.9
avg, IF

7.45
L-index

#	Paper	IF	Citations
725	Silver Nanoparticles for Conductive Inks: From Synthesis and Ink Formulation to Their Use in Printing Technologies. <i>Metals</i> , 2022 , 12, 234	2.3	5
724	Magnetic graphene oxide-lignin nanobiocomposite: a novel, eco-friendly and stable nanostructure suitable for hyperthermia in cancer therapy.. <i>RSC Advances</i> , 2022 , 12, 3593-3601	3.7	2
723	Environmentally friendly carrageenan-based ionic-liquid driven soft actuators. <i>Materials Advances</i> , 2022 , 3, 937-945	3.3	0
722	Solution processing of piezoelectric unconventional structures 2022 , 375-439		
721	pH-Induced 3D Printable Chitosan Hydrogels for Soft Actuation.. <i>Polymers</i> , 2022 , 14,	4.5	3
720	Electroactive poly(vinylidene fluoride) electrospun fiber mats coated with polyaniline and polypyrrole for tissue regeneration applications. <i>Reactive and Functional Polymers</i> , 2022 , 170, 105118	4.6	3
719	Electrode fabrication process and its influence in lithium-ion battery performance: State of the art and future trends. <i>Electrochemistry Communications</i> , 2022 , 135, 107210	5.1	3
718	Printed multifunctional magnetically activated energy harvester with sensing capabilities. <i>Nano Energy</i> , 2022 , 94, 106885	17.1	4
717	Multifunctional hybrid membranes for photocatalytic and adsorptive removal of water contaminants of emerging concern.. <i>Chemosphere</i> , 2022 , 293, 133548	8.4	2
716	Unraveling the role of magnetic anisotropy on the thermoelectric response: a theoretical and experimental approach. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 025001	3	2
715	Bulk Magnetoelectric Composites 2022 , 196-206		
714	Nanocomposites Materials and Their Applications: Current and Future Trends. <i>Engineering Materials</i> , 2022 , 3-14	0.4	
713	Nanocomposites for Energy Storage Applications. <i>Engineering Materials</i> , 2022 , 533-565	0.4	
712	Recent Progress in Graphene- and Related Carbon-Nanomaterial-based Electrochemical Biosensors for Early Disease Detection.. <i>ACS Biomaterials Science and Engineering</i> , 2022 ,	5.5	4
711	Greener Solvent-Based Processing of Magnetoelectric Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 4122-4132	8.3	0
710	Ionic liquid modified electroactive polymer-based microenvironments for tissue engineering. <i>Polymer</i> , 2022 , 246, 124731	3.9	0
709	Merging Solution Processing and Printing for Sustainable Fabrication of Cu(In,Ga)Se ₂ Photovoltaics. <i>Chemical Engineering Journal</i> , 2022 , 136188	14.7	1

708	Transparent Piezoelectric Polymer-Based Materials for Energy Harvesting and Multitouch Detection Devices. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 287-296	4	0
707	Improved performance of polyimide Cirlex-based dielectric barrier discharge plasma actuators for flow control. <i>Polymers for Advanced Technologies</i> , 2022 , 33, 1278-1290	3.2	0
706	Magnetically active nanocomposites based on biodegradable polylactide, polycaprolactone, polybutylene succinate and polybutylene adipate terephthalate. <i>Polymer</i> , 2022 , 124804	3.9	2
705	Understanding Electrogenerated Chemiluminescence at graphite screen-printed electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 116331	4.1	
704	Toward Sustainable Solid Polymer Electrolytes for Lithium-Ion Batteries.. <i>ACS Omega</i> , 2022 , 7, 14457-14464	3.9	2
703	Poly(lactic-co-glycolide) based biodegradable electrically and magnetically active microenvironments for tissue regeneration applications. <i>European Polymer Journal</i> , 2022 , 111197	5.2	2
702	Metal organic framework modified poly(vinylidene fluoride-co-hexafluoropropylene) separator membranes to improve lithium-ion battery capacity fading. <i>Chemical Engineering Journal</i> , 2022 , 443, 136329	14.7	3
701	Template-free hydrothermal synthesis of lithium iron tavorite with complex morphologies driven by phase transformation. <i>Nano Structures Nano Objects</i> , 2022 , 30, 100870	5.6	
700	Carrageenan based printable magnetic nanocomposites for actuator applications. <i>Composites Science and Technology</i> , 2022 , 109485	8.6	0
699	Tailoring physicochemical properties of collagen-based composites with ionic liquids and wool for advanced applications. <i>Polymer</i> , 2022 , 252, 124943	3.9	2
698	Natural based reusable materials for microfluidic substrates: The silk road towards sustainable portable analytical systems. <i>Applied Materials Today</i> , 2022 , 28, 101507	6.6	1
697	Electroactive functional microenvironments from bioactive polymers: A new strategy to address cancer 2022 , 212849		0
696	Solid Magnetoliposomes as Multi-Stimuli-Responsive Systems for Controlled Release of Doxorubicin: Assessment of Lipid Formulations. <i>Biomedicines</i> , 2022 , 10, 1207	4.8	3
695	Electrical stimulation: Effective cue to direct osteogenic differentiation of mesenchymal stem cells? 2022 , 138, 212918		1
694	Polyethylene/ poly(3-hydroxybutyrate-co-3-hydroxyvalerate) /carbon nanotube composites for eco-friendly electronic applications. <i>Polymer Testing</i> , 2022 , 112, 107642	4.5	0
693	Structural organization of ionic liquids embedded in fluorinated polymers. <i>Journal of Molecular Liquids</i> , 2022 , 360, 119385	6	0
692	Biomimetic 3D Environment Based on Microgels as a Model for the Generation of Drug Resistance in Multiple Myeloma. <i>Materials</i> , 2021 , 14,	3.5	1
691	Influence of glucose, sucrose, and dextran coatings on the stability and toxicity of silver nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2021 , 194, 461-461	7.9	2

690	Green synthesis of molybdenum-based nanoparticles and their applications in energy conversion and storage: A review. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	2
689	Large-scale aqueous synthesis of Cu(In,Ga)Se nanoparticles for photocatalytic degradation of ciprofloxacin. <i>Dalton Transactions</i> , 2021 , 50, 16819-16828	4.3	1
688	Silk fibroin and sericin polymer blends for sustainable battery separators.. <i>Journal of Colloid and Interface Science</i> , 2021 , 611, 366-376	9.3	1
687	High-Performance Room Temperature Lithium-Ion Battery Solid Polymer Electrolytes Based on Poly(vinylidene fluoride--hexafluoropropylene) Combining Ionic Liquid and Zeolite. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48889-48900	9.5	2
686	Laser-activated screen-printed carbon electrodes for enhanced dopamine determination in the presence of ascorbic and uric acid. <i>Electrochimica Acta</i> , 2021 , 399, 139374	6.7	2
685	Reusable Ag@TiO-Based Photocatalytic Nanocomposite Membranes for Solar Degradation of Contaminants of Emerging Concern. <i>Polymers</i> , 2021 , 13,	4.5	5
684	All printed soft actuators based on ionic liquid/polymer hybrid materials. <i>Applied Materials Today</i> , 2021 , 22, 100928	6.6	7
683	Theoretical optimization of magnetoelectric multilayer laminates. <i>Composites Science and Technology</i> , 2021 , 204, 108642	8.6	2
682	Magnesium aminoclays as plasmid delivery agents for non-competent Escherichia coli JM109 transformation. <i>Applied Clay Science</i> , 2021 , 204, 106010	5.2	2
681	Large-Scale Synthesis of Semiconducting Cu(In,Ga)Se Nanoparticles for Screen Printing Application. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
680	Spherical and needle shaped magnetic nanoparticles for friction and magnetic stimulated transformation of microorganisms. <i>Nano Structures Nano Objects</i> , 2021 , 26, 100732	5.6	
679	Fluorinated Polymer Membranes as Advanced Substrates for Portable Analytical Systems and Their Proof of Concept for Colorimetric Bioassays. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18065-18076	9.5	3
678	Photocurable temperature activated humidity hybrid sensing materials for multifunctional coatings. <i>Polymer</i> , 2021 , 221, 123635	3.9	1
677	Magnetorheological Elastomer-Based Materials and Devices: State of the Art and Future Perspectives. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100240	3.5	8
676	Porous Composite Bifunctional Membranes for Lithium-Ion Battery Separator and Photocatalytic Degradation Applications: Toward Multifunctionality for Circular Economy. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100046	1.6	3
675	Recent Advances on Materials for Lithium-Ion Batteries. <i>Energies</i> , 2021 , 14, 3145	3.1	7
674	Can photocatalytic and magnetic nanoparticles be a threat to aquatic detrital food webs?. <i>Science of the Total Environment</i> , 2021 , 769, 144576	10.2	5
673	Comparative Assessment of Ionic Liquid-Based Soft Actuators Prepared by Film Casting Versus Direct Ink Writing. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100411	3.5	2

672	Recycling and environmental issues of lithium-ion batteries: Advances, challenges and opportunities. <i>Energy Storage Materials</i> , 2021 , 37, 433-465	19.4	48
671	Cytocompatible scaffolds of poly(L-lactide)/reduced graphene oxide for tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2021 , 32, 1406-1419	3.5	3
670	Magnetorheological Elastomer-Based Materials and Devices: State of the Art and Future Perspectives. <i>Advanced Engineering Materials</i> , 2021 , 23, 2170023	3.5	0
669	Crystallization Monitoring of Semicrystalline Poly(vinylidene fluoride)/1-Ethyl-3-methylimidazolium Hexafluorophosphate [Emim][PF6] Ionic Liquid Blends. <i>Crystal Growth and Design</i> , 2021 , 21, 4406-4416	3.5	0
668	Chitin/Metal-Organic Framework Composites as Wide-Range Adsorbent. <i>ChemSusChem</i> , 2021 , 14, 2892-2901	3.9	4
667	Magnetically active lithium-ion batteries towards battery performance improvement. <i>IScience</i> , 2021 , 24, 102691	6.1	10
666	Polycarbonate based multifunctional self-sensing 2D and 3D printed structures for aeronautic applications. <i>Smart Materials and Structures</i> , 2021 , 30, 085032	3.4	3
665	Magnetic Nanoparticles for Biomedical Applications: From the Soul of the Earth to the Deep History of Ourselves.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 5839-5870	4.1	8
664	Crystal morphology control of synthetic giniite for enhanced photo-Fenton activity against the emerging pollutant metronidazole. <i>Chemosphere</i> , 2021 , 262, 128300	8.4	16
663	Processing Strategies to Obtain Highly Porous Silk Fibroin Structures with Tailored Microstructure and Molecular Characteristics and Their Applicability in Water Remediation. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123675	12.8	13
662	All-Printed Smart Label with Integrated Humidity Sensors and Power Supply. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001229	3.5	4
661	Deposition of Ti-Zr-O-N Films by reactive magnetron sputtering of Zr target with Ti ribbons. <i>Surface and Coatings Technology</i> , 2021 , 409, 126737	4.4	0
660	Optimized Printed Cathode Electrodes for High Performance Batteries. <i>Energy Technology</i> , 2021 , 9, 2000895	9.9	5
659	Enhanced ionic conductivity in poly(vinylidene fluoride) electrospun separator membranes blended with different ionic liquids for lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 376-386	9.3	29
658	Improved electrochemical performance of LiMn _{1.5} M _{0.5} O ₄ (M=Ni, Co, Cu) based cathodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157208	5.7	10
657	Magnetic field into multifunctional materials: Magnetorheological, magnetostrictive, and magnetocaloric 2021 , 391-405		0
656	Piezoelectric Polymer Composites for Sensors and Actuators 2021 , 473-486		2
655	Magnetoelectric Polymer-Based Nanocomposites with Magnetically Controlled Antimicrobial Activity. <i>ACS Applied Bio Materials</i> , 2021 , 4, 559-570	4.1	9

654	Multifunctional materials based on smart hydrogels for biomedical and 4D applications 2021 , 407-467		0
653	Overview on lightweight, multifunctional materials 2021 , 1-24		4
652	Magnetic materials: a journey from finding north to an exciting printed future. <i>Materials Horizons</i> , 2021 , 8, 2654-2684	14.4	9
651	Functional, lightweight materials: outlook, future trends, and challenges 2021 , 503-507		1
650	Additive manufacturing of multifunctional materials 2021 , 25-42		1
649	High deformation multifunctional composites: materials, processes, and applications 2021 , 317-350		1
648	Metal-organic frameworks and zeolite materials as active fillers for lithium-ion battery solid polymer electrolytes. <i>Materials Advances</i> , 2021 , 2, 3790-3805	3.3	6
647	Capacitive and illumination systems based on printed and hybrid electronics. <i>Flexible and Printed Electronics</i> , 2021 , 6, 015004	3.1	1
646	Modulation of the Bifunctional CrVI to CrIII Photoreduction and Adsorption Capacity in ZrIV and TiIV Benchmark Metal-Organic Frameworks. <i>Catalysts</i> , 2021 , 11, 51	4	4
645	Free-standing intrinsically conducting polymer membranes based on cellulose and poly(vinylidene fluoride) for energy storage applications. <i>European Polymer Journal</i> , 2021 , 144, 110240	5.2	4
644	Short-range magnetic behavior in manganites $\text{La}_{0.93}\text{K}_{0.07}\text{Mn}_{1-x}\text{Cu}_x\text{O}_3$ ($0.0 \leq x \leq 0.09$) above the Curie temperature. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 175001	3	3
643	High dielectric constant poly(vinylidene fluoride-trifluoroethylene-chlorofluoroethylene) for capacitive pressure and bending sensors. <i>Polymer</i> , 2021 , 214, 123349	3.9	4
642	A Facile Nanoimpregnation Method for Preparing Paper-Based Sensors and Actuators. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100476	6.8	1
641	Hybrid Bionanocomposite Containing Magnesium Hydroxide Nanoparticles Embedded in a Carboxymethyl Cellulose Hydrogel Plus Silk Fibroin as a Scaffold for Wound Dressing Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33840-33849	9.5	18
640	Bismuth-based heterojunction nanocomposites for photocatalysis and heavy metal detection applications. <i>Nano Structures Nano Objects</i> , 2021 , 27, 100762	5.6	30
639	Photocurable magnetic materials with tailored functional properties. <i>Composites Part C: Open Access</i> , 2021 , 5, 100143	1.6	2
638	Magnetic Copper Ferrite Nanoparticles Functionalized by Aromatic Polyamide Chains for Hyperthermia Applications. <i>Langmuir</i> , 2021 , 37, 8847-8854	4	14
637	Environmentally Friendly Graphene-Based Conductive Inks for Multitouch Capacitive Sensing Surfaces. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100578	4.6	4

636	Exploring electroactive microenvironments in polymer-based nanocomposites to sensitize bacterial cells to low-dose embedded silver nanoparticles. <i>Acta Biomaterialia</i> , 2021 ,	10.8	2
635	Patterned separator membranes with pillar surface microstructures for improved battery performance. <i>Journal of Colloid and Interface Science</i> , 2021 , 596, 158-172	9.3	1
634	Silver-Doped Cadmium Selenide/Graphene Oxide-Filled Cellulose Acetate Nanocomposites for Photocatalytic Degradation of Malachite Green toward Wastewater Treatment. <i>ACS Omega</i> , 2021 , 6, 23129-23138	3.9	8
633	. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-57	2	8
632	Thermal degradation behavior of ionic liquid/ fluorinated polymer composites: Effect of polymer type and ionic liquid anion and cation. <i>Polymer</i> , 2021 , 229, 123995	3.9	0
631	Highly sensitive transparent piezoionic materials and their applicability as printable pressure sensors. <i>Composites Science and Technology</i> , 2021 , 214, 108976	8.6	6
630	Ionic Liquid-Based Materials for Biomedical Applications. <i>Nanomaterials</i> , 2021 , 11,	5.4	13
629	Broadband dielectric response of silk Fibroin/BaTiO ₃ composites: Influence of nanoparticle size and concentration. <i>Composites Science and Technology</i> , 2021 , 213, 108927	8.6	2
628	Nanostructured Cr(N,O) based thin films for relative humidity sensing. <i>Vacuum</i> , 2021 , 191, 110333	3.7	0
627	Electroactive Smart Materials for Neural Tissue Regeneration.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 6604-6618	6.18	1
626	Eco-friendly and cost-efficient inks for screen-printed fabrication of copper indium gallium diselenide photoabsorber thin films. <i>Journal of Colloid and Interface Science</i> , 2021 , 598, 388-397	9.3	5
625	Multifunctional wax based conductive and piezoresistive nanocomposites for sensing applications. <i>Composites Science and Technology</i> , 2021 , 213, 108892	8.6	4
624	Pectin-cellulose hydrogel, silk fibroin and magnesium hydroxide nanoparticles hybrid nanocomposites for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 192, 7-15	7.9	7
623	3D printable self-healing hyaluronic acid/chitosan polycomplex hydrogels with drug release capability. <i>International Journal of Biological Macromolecules</i> , 2021 , 188, 820-832	7.9	4
622	Fractionating stem cells secretome for Parkinson's disease modeling: Is it the whole better than the sum of its parts?. <i>Biochimie</i> , 2021 , 189, 87-98	4.6	1
621	Recent advances on battery separators based on poly(vinylidene fluoride) and its copolymers for lithium-ion battery applications. <i>Current Opinion in Electrochemistry</i> , 2021 , 29, 100752	7.2	3
620	Multifunctional hard coatings based on CrN _x for temperature sensing applications. <i>Sensors and Actuators A: Physical</i> , 2021 , 329, 112794	3.9	0
619	Electric vehicles: To what extent are environmentally friendly and cost effective? [Comparative study by european countries. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 151, 111548	16.2	10

618	Lithium bis(trifluoromethanesulfonyl)imide blended in polyurethane acrylate photocurable solid polymer electrolytes for lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021 , 62, 485-496	12	4
617	Laser-induced highly oriented pyrolytic graphite for high-performance screen-printed electrodes. <i>Materials Advances</i> , 2021 , 2, 5912-5921	3.3	3
616	Influence of cellulose nanocrystal surface functionalization on the bending response of cellulose nanocrystal/ionic liquid soft actuators. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 6710-6716	3.6	0
615	Kit Energy, Environment and Sustainability—An Educational Strategy for a Sustainable Future. A Case Study for Guinea-Bissau. <i>Education Sciences</i> , 2021 , 11, 787	2.2	
614	Cellulose Nanocrystal and Water-Soluble Cellulose Derivative Based Electromechanical Bending Actuators. <i>Materials</i> , 2020 , 13,	3.5	8
613	Development of Poly(L-Lactic Acid)-Based Bending Actuators. <i>Polymers</i> , 2020 , 12,	4.5	4
612	Plasma-treated Bombyx mori cocoon separators for high-performance and sustainable lithium-ion batteries. <i>Materials Today Sustainability</i> , 2020 , 9, 100041	5	8
611	Magnetically Activated Electroactive Microenvironments for Skeletal Muscle Tissue Regeneration.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4239-4252	4.1	12
610	Chromium Speciation in Zirconium-Based Metal-Organic Frameworks for Environmental Remediation. <i>Chemistry - A European Journal</i> , 2020 , 26, 13861-13872	4.8	11
609	Polymer-based actuators: back to the future. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15163-15182	3.6	25
608	Synthetic polymer-based membranes for lithium-ion batteries 2020 , 383-415		
607	Silk Fibroin Based Magnetic Nanocomposites for Actuator Applications. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000111	3.5	4
606	Recent advances and future challenges in printed batteries. <i>Energy Storage Materials</i> , 2020 , 28, 216-234	19.4	41
605	Ionic Liquid/Polymer Composites: A New Platform for Multifunctional Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909736	15.6	92
604	Magnetic Bioreactor for Magneto-, Mechano- and Electroactive Tissue Engineering Strategies. <i>Sensors</i> , 2020 , 20,	3.8	9
603	Silk fibroin magnetoactive nanocomposite films and membranes for dynamic bone tissue engineering strategies. <i>Materialia</i> , 2020 , 12, 100709	3.2	17
602	Effect of Ionic Liquid Content on the Crystallization Kinetics and Morphology of Semicrystalline Poly(vinylidene Fluoride)/Ionic Liquid Blends. <i>Crystal Growth and Design</i> , 2020 , 20, 4967-4979	3.5	8
601	Electroactive poly(vinylidene fluoride)-based materials: recent progress, challenges, and opportunities 2020 , 1-43		2

600	The role of CNC surface modification on the structural, thermal and electrical properties of poly(vinylidene fluoride) nanocomposites. <i>Cellulose</i> , 2020 , 27, 3821-3834	5.5	6
599	Enhanced Photocatalytic Activity of Au/TiO ₂ Nanoparticles against Ciprofloxacin. <i>Catalysts</i> , 2020 , 10, 234	4	21
598	Combining cobalt ferrite and graphite with cellulose nanocrystals for magnetically active and electrically conducting mesoporous nanohybrids. <i>Carbohydrate Polymers</i> , 2020 , 236, 116001	10.3	4
597	Photocatalytic and antimicrobial multifunctional nanocomposite membranes for emerging pollutants water treatment applications. <i>Chemosphere</i> , 2020 , 250, 126299	8.4	45
596	Tailoring Electrical and Mechanical Properties of All-Natural Polymer Composites for Environmentally Friendlier Electronics. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1448-1457	4.3	8
595	Vineyard calcium sprays induce changes in grape berry skin, firmness, cell wall composition and expression of cell wall-related genes. <i>Plant Physiology and Biochemistry</i> , 2020 , 150, 49-55	5.4	13
594	Electroactive EPhase, Enhanced Thermal and Mechanical Properties and High Ionic Conductivity Response of Poly (Vinylidene Fluoride)/Cellulose Nanocrystal Hybrid Nanocomposites. <i>Materials</i> , 2020 , 13,	3.5	5
593	Modulation of the magnetoimpedance effect of ZnO:Ag/NiFe heterostructures by thermal annealing. <i>Journal of Materials Science</i> , 2020 , 55, 5961-5968	4.3	3
592	Hydrophobic modification of bacterial cellulose using oxygen plasma treatment and chemical vapor deposition. <i>Cellulose</i> , 2020 , 27, 10733-10746	5.5	16
591	Silica nanoparticles surface charge modulation of the electroactive phase content and physical-chemical properties of poly(vinylidene fluoride) nanocomposites. <i>Composites Part B: Engineering</i> , 2020 , 185, 107786	10	7
590	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
589	Morphology Dependence Degradation of Electro- and Magnetoactive Poly(3-hydroxybutyrate-co-hydroxyvalerate) for Tissue Engineering Applications. <i>Polymers</i> , 2020 , 12,	4.5	9
588	UV curable nanocomposites with tailored dielectric response. <i>Polymer</i> , 2020 , 196, 122498	3.9	11
587	Ionic liquid based Fluoropolymer solid electrolytes for Lithium-ion batteries. <i>Sustainable Materials and Technologies</i> , 2020 , 25, e00176	5.3	11
586	Antimicrobial and Antibiofilm Properties of Fluorinated Polymers with Embedded Functionalized Nanodiamonds. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 5014-5024	4.3	2
585	Tailoring electroactive poly(vinylidene fluoride-co-trifluoroethylene) microspheres by a nanoprecipitation method. <i>Materials Letters</i> , 2020 , 261, 127018	3.3	4
584	Hydrolytic degradation and cytotoxicity of poly(lactic-co-glycolic acid)/multiwalled carbon nanotubes for bone regeneration. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48439	2.9	10
583	Water-based 2D printing of magnetically active cellulose derivative nanocomposites. <i>Carbohydrate Polymers</i> , 2020 , 233, 115855	10.3	4

582	Reconfigurable 3D-printable magnets with improved maximum energy product. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 952-958	7.1	13
581	Multilayer passive radiative selective cooling coating based on Al/SiO ₂ /SiN _x /SiO ₂ /TiO ₂ /SiO ₂ prepared by dc magnetron sputtering. <i>Thin Solid Films</i> , 2020 , 694, 137736	2.2	12
580	Tailoring silk fibroin separator membranes pore size for improving performance of lithium ion batteries. <i>Journal of Membrane Science</i> , 2020 , 598, 117678	9.6	24
579	Surface Charge-Mediated Cell-Surface Interaction on Piezoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 191-199	9.5	12
578	Tailoring Electrospun Poly(l-lactic acid) Nanofibers as Substrates for Microfluidic Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 60-69	9.5	9
577	Selective Antimicrobial Performance of Biosynthesized Silver Nanoparticles by Horsetail Extract Against E. coli. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 2598-2607	3.2	6
576	Polysaccharide-Based In Situ Self-Healing Hydrogels for Tissue Engineering Applications. <i>Polymers</i> , 2020 , 12,	4.5	14
575	Magnetolectrics: Three Centuries of Research Heading towards the 4.0 Industrial Revolution. <i>Materials</i> , 2020 , 13,	3.5	23
574	Spray-printed magnetolectric multifunctional composites. <i>Composites Part B: Engineering</i> , 2020 , 187, 107829	10	21
573	Magnetic materials for magnetolectric coupling: An unexpected journey. <i>Handbook of Magnetic Materials</i> , 2020 , 29, 57-110	1.3	2
572	Metal-Organic Framework Based PVDF Separators for High Rate Cycling Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11907-11919	6.1	15
571	Patterned Piezoelectric Scaffolds for Osteogenic Differentiation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
570	Triboelectric Energy Harvesting Response of Different Polymer-Based Materials. <i>Materials</i> , 2020 , 13,	3.5	7
569	Effect of bacterial nanocellulose binding on the bactericidal activity of bovine lactoferrin. <i>Heliyon</i> , 2020 , 6, e04372	3.6	5
568	Lithium-ion battery separator membranes based on poly(L-lactic acid) biopolymer. <i>Materials Today Energy</i> , 2020 , 18, 100494	7	11
567	Dielectric relaxation dynamics in poly(vinylidene fluoride)/Pb(Zr _{0.53} Ti _{0.47})O ₃ composites. <i>Polymer</i> , 2020 , 204, 122811	3.9	3
566	Cellulose and its derivatives for lithium ion battery separators: A review on the processing methods and properties. <i>Carbohydrate Polymer Technologies and Applications</i> , 2020 , 1, 100001	1.7	14
565	Tuning Properties of Cerium Dioxide Nanoparticles by Surface Modification with Catecholate-type of Ligands. <i>Langmuir</i> , 2020 , 36, 9738-9746	4	2

564	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	8.3	11
563	High dielectric constant UV curable polyurethane acrylate/indium tin oxide composites for capacitive sensing. <i>Composites Science and Technology</i> , 2020 , 199, 108363	8.6	14
562	EGlycerol phosphate/genipin chitosan hydrogels: A comparative study of their properties and diclofenac delivery. <i>Carbohydrate Polymers</i> , 2020 , 248, 116811	10.3	20
561	Magnetic and high-dielectric-constant nanoparticle polymer tri-composites for sensor applications. <i>Journal of Materials Science</i> , 2020 , 55, 16234-16246	4.3	1
560	Functional Piezoresistive Polymer-Composites Based on Polycarbonate and Polylactic Acid for Deformation Sensing Applications. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000379	3.9	4
559	Physically Active Bioreactors for Tissue Engineering Applications. <i>Advanced Biology</i> , 2020 , 4, e2000125	3.5	15
558	Optically transparent silk fibroin/silver nanowire composites for piezoresistive sensing and object recognitions. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13053-13062	7.1	7
557	Water-Based Graphene Inks for All-Printed Temperature and Deformation Sensors. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2857-2867	4	15
556	Design of Ionic-Liquid-Based Hybrid Polymer Materials with a Magnetoactive and Electroactive Multifunctional Response. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42089-42098	9.5	6
555	Biodegradable Hydrogels Loaded with Magnetically Responsive Microspheres as 2D and 3D Scaffolds. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
554	Overview on thermoactive materials, simulations and applications. <i>Journal of Materials Science</i> , 2020 , 55, 925-946	4.3	6
553	All-Printed Piezoresistive Sensor Matrix with Organic Thin-Film Transistors as a Switch for Crosstalk Reduction. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1470-1477	4	5
552	Fabrication, Characterization and Implementation of Thermo Resistive TiCu(N,O) Thin Films in a Polymer Injection Mold. <i>Materials</i> , 2020 , 13,	3.5	2
551	Magnetic Proximity Sensor Based on Magnetolectric Composites and Printed Coils. <i>Materials</i> , 2020 , 13,	3.5	8
550	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
549	Ionic-Liquid-Based Electroactive Polymer Composites for Muscle Tissue Engineering. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 2649-2658	4.3	24
548	Highly Sensitive Humidity Sensor Based on Ionic Liquid Polymer Composites. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 2723-2730	4.3	26
547	A New Approach for the Fabrication of Cytocompatible PLLA-Magnetite Nanoparticle Composite Scaffolds. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	7

546	Stimuli responsive UV cured polyurethane acrylated/carbon nanotube composites for piezoresistive sensing. <i>European Polymer Journal</i> , 2019 , 120, 109226	5.2	14
545	Development of bio-hybrid piezoresistive nanocomposites using silk-elastin protein copolymers. <i>Composites Science and Technology</i> , 2019 , 172, 134-142	8.6	8
544	Theoretical simulation of the optimal relation between active material, binder and conductive additive for lithium-ion battery cathodes. <i>Energy</i> , 2019 , 172, 68-78	7.9	23
543	Photocatalytic Microporous Membrane against the Increasing Problem of Water Emerging Pollutants. <i>Materials</i> , 2019 , 12,	3.5	17
542	Hydrogel-based magnetoelectric microenvironments for tissue stimulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 1041-1047	6	30
541	Piezoresistive performance of polymer-based materials as a function of the matrix and nanofiller content to walking detection application. <i>Composites Science and Technology</i> , 2019 , 181, 107678	8.6	24
540	Enhanced performance of fluorinated separator membranes for lithium ion batteries through surface micropatterning. <i>Energy Storage Materials</i> , 2019 , 21, 124-135	19.4	14
539	Water-Soluble Cellulose Derivatives as Suitable Matrices for Multifunctional Materials. <i>Biomacromolecules</i> , 2019 , 20, 2786-2795	6.9	22
538	Mesoporous Cellulose Nanocrystal Membranes as Battery Separators for Environmentally Safer Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3749-3761	6.1	32
537	Ionic-Liquid-Based Printable Materials for Thermochromic and Thermoresistive Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20316-20324	9.5	22
536	Polymer-based magnetoelectric materials: To be or not to be. <i>Applied Materials Today</i> , 2019 , 15, 558-561.6	16	
535	Carbonaceous Filler Type and Content Dependence of the Physical-Chemical and Electromechanical Properties of Thermoplastic Elastomer Polymer Composites. <i>Materials</i> , 2019 , 12,	3.5	8
534	Optimized silk fibroin piezoresistive nanocomposites for pressure sensing applications based on natural polymers. <i>Nanoscale Advances</i> , 2019 , 1, 2284-2292	5.1	19
533	All-printed multilayer materials with improved magnetoelectric response. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5394-5400	7.1	25
532	Recent Progress on Piezoelectric, Pyroelectric, and Magnetoelectric Polymer-Based Energy-Harvesting Devices. <i>Energy Technology</i> , 2019 , 7, 1800852	3.5	50
531	Molecular relaxation and ionic conductivity of ionic liquids confined in a poly(vinylidene fluoride) polymer matrix: Influence of anion and cation type. <i>Polymer</i> , 2019 , 171, 58-69	3.9	14
530	Tuning Myoblast and Preosteoblast Cell Adhesion Site, Orientation, and Elongation through Electroactive Micropatterned Scaffolds.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1591-1602	4.1	10
529	Mesoporous poly(vinylidene fluoride-co-trifluoroethylene) membranes for lithium-ion battery separators. <i>Electrochimica Acta</i> , 2019 , 301, 97-106	6.7	21

528	The effect of increasing Si content in the absorber layers (CrAlSiNx/CrAlSiOyNx) of solar selective absorbers upon their selectivity and thermal stability. <i>Applied Surface Science</i> , 2019 , 481, 1096-1102	6.7	6
527	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
526	Solid polymer electrolytes based on lithium bis(trifluoromethanesulfonyl)imide/poly(vinylidene fluoride-co-hexafluoropropylene) for safer rechargeable lithium-ion batteries. <i>Sustainable Materials and Technologies</i> , 2019 , 21, e00104	5.3	10
525	Nanostructured Ti _{1-x} Cu _x thin films with tailored electrical and morphological anisotropy. <i>Thin Solid Films</i> , 2019 , 672, 47-54	2.2	4
524	Transparent Magnetolectric Materials for Advanced Invisible Electronic Applications. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900280	6.4	13
523	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
522	Freeze-extraction microporous electroactive supports for cell culture. <i>European Polymer Journal</i> , 2019 , 119, 531-540	5.2	4
521	Silk Fibroin Bending Actuators as an Approach Toward Natural Polymer Based Active Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30197-30206	9.5	25
520	Effect of the active material type and battery geometry on the thermal behavior of lithium-ion batteries. <i>Energy</i> , 2019 , 185, 1250-1262	7.9	11
519	Environmentally Friendly Printable Piezoelectric Inks and Their Application in the Development of All-Printed Touch Screens. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1678-1687	4	17
518	Tailoring Bacteria Response by Piezoelectric Stimulation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27297-27305	9.5	23
517	Influence of Cation and Anion Type on the Formation of the Electroactive Phase and Thermal and Dynamic Mechanical Properties of Poly(vinylidene fluoride)/Ionic Liquids Blends. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27917-27926	3.8	28
516	Multidimensional Biomechanics Approaches Though Electrically and Magnetically Active Microenvironments 2019 , 253-267		2
515	Ceramic nanoparticles and carbon nanotubes reinforced thermoplastic materials for piezocapacitive sensing applications. <i>Composites Science and Technology</i> , 2019 , 183, 107804	8.6	4
514	Electroactive Smart Materials: Novel Tools for Tailoring Bacteria Behavior and Fight Antimicrobial Resistance. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 277	5.8	12
513	Magnetic ionic liquid/polymer composites: Tailoring physico-chemical properties by ionic liquid content and solvent evaporation temperature. <i>Composites Part B: Engineering</i> , 2019 , 178, 107516	10	15
512	Polymer-Based Separators for Lithium-Ion Batteries 2019 , 429-465		1
511	Micro- and nanostructured piezoelectric polymers. <i>Frontiers of Nanoscience</i> , 2019 , 35-65	0.7	3

510	Bioinspired Three-Dimensional Magnetoactive Scaffolds for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45265-45275	9.5	56
509	Electromechanical Properties of PVDF-Based Polymers Reinforced with Nanocarbonaceous Fillers for Pressure Sensing Applications. <i>Materials</i> , 2019 , 12,	3.5	14
508	High performance piezoresistive response of nanostructured ZnO/Ag thin films for pressure sensing applications. <i>Thin Solid Films</i> , 2019 , 691, 137587	2.2	4
507	Advances in Cathode Nanomaterials for Lithium-Ion Batteries 2019 , 105-145		
506	Polymer-Based Membranes for Oily Wastewater Remediation. <i>Polymers</i> , 2019 , 12,	4.5	15
505	Surface wettability modification of poly(vinylidene fluoride) and copolymer films and membranes by plasma treatment. <i>Polymer</i> , 2019 , 169, 138-147	3.9	30
504	Highly Sensitive Piezoresistive Graphene-Based Stretchable Composites for Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46286-46295	9.5	29
503	3D Cytocompatible Composites of PCL/magnetite. <i>Materials</i> , 2019 , 12,	3.5	3
502	Polymeric Electrospun Fibrous Dressings for Topical Co-delivery of Acyclovir and Omega-3 Fatty Acids. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 390	5.8	10
501	Thermal activation of charge carriers in ionic and electronic semiconductor AgVO and AgVO@VVO composite xerogels.. <i>RSC Advances</i> , 2019 , 9, 42439-42449	3.7	
500	Recent developments on printed photodetectors for large area and flexible applications. <i>Organic Electronics</i> , 2019 , 66, 216-226	3.5	27
499	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
498	Binary polyamide hybrid composites containing carbon allotropes and metal particles with radiofrequency shielding effect. <i>Polymer Composites</i> , 2019 , 40, E1338-E1352	3	1
497	Lab-on-a-chip technology and microfluidics 2019 , 3-36		7
496	Open Questions, Challenges and Outlook 2018 , 230-234		
495	Piezo- and Magnetoelectric Polymers as Biomaterials for Novel Tissue Engineering Strategies. <i>MRS Advances</i> , 2018 , 3, 1671-1676	0.7	17
494	Reusable Photocatalytic Optical Fibers for Underground, Deep-Sea, and Turbid Water Remediation. <i>Global Challenges</i> , 2018 , 2, 1700124	4.3	5
493	Tuning electrical resistivity anisotropy of ZnO thin films for resistive sensor applications. <i>Thin Solid Films</i> , 2018 , 654, 93-99	2.2	10

492	Ionic and conformational mobility in poly(vinylidene fluoride)/ionic liquid blends: Dielectric and electrical conductivity behavior. <i>Polymer</i> , 2018 , 143, 164-172	3.9	24
491	Development of a contactless DC current sensor with high linearity and sensitivity based on the magnetoelectric effect. <i>Smart Materials and Structures</i> , 2018 , 27, 065012	3.4	24
490	Printed Wheatstone bridge with embedded polymer based piezoresistive sensors for strain sensing applications. <i>Additive Manufacturing</i> , 2018 , 20, 119-125	6.1	26
489	Silk Fibroin Separators: A Step Toward Lithium-Ion Batteries with Enhanced Sustainability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5385-5394	9.5	36
488	Printed Batteries 2018 , 1-20		1
487	Printing Techniques for Batteries 2018 , 21-62		
486	Polymer Electrolytes for Printed Batteries 2018 , 80-111		5
485	Design of Printed Batteries 2018 , 112-143		
484	Applications of Printed Batteries 2018 , 144-184		2
483	Industrial Perspective on Printed Batteries 2018 , 185-229		2
482	Computer simulation of the influence of thermal conditions on the performance of conventional and unconventional lithium-ion battery geometries. <i>Energy</i> , 2018 , 149, 262-278	7.9	13
481	The Influence of Slurry Rheology on Lithium-ion Electrode Processing 2018 , 63-79		2
480	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
479	Advances in Magnetic Nanoparticles for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700845	10.1	277
478	Crystallization kinetics of poly(ethylene oxide) confined in semicrystalline poly(vinylidene) fluoride. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 588-597	2.6	10
477	Silk fibroin-magnetic hybrid composite electrospun fibers for tissue engineering applications. <i>Composites Part B: Engineering</i> , 2018 , 141, 70-75	10	68
476	Poly(vinylidene fluoride) composites with carbon nanotubes decorated with metal nanoparticles. <i>Composites Part B: Engineering</i> , 2018 , 142, 1-8	10	19
475	Water based scintillator ink for printed X-ray radiation detectors. <i>Polymer Testing</i> , 2018 , 69, 26-31	4.5	3

474	Evaluation of the Physicochemical Properties and Active Response of Piezoelectric Poly(vinylidene fluoride-co-trifluoroethylene) as a Function of Its Microstructure. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11433-11441	3.8	7
473	Electroactive poly(vinylidene fluoride)-based structures for advanced applications. <i>Nature Protocols</i> , 2018 , 13, 681-704	18.8	320
472	Indirect X-ray Detectors Based on Inkjet-Printed Photodetectors with a Screen-Printed Scintillator Layer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12904-12912	9.5	24
471	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
470	Polymer-based smart materials by printing technologies: Improving application and integration. <i>Additive Manufacturing</i> , 2018 , 21, 269-283	6.1	81
469	Stretchable scintillator composites for indirect X-ray detectors. <i>Composites Part B: Engineering</i> , 2018 , 133, 226-231	10	11
468	Multifunctional electromechanical and thermoelectric polyaniline/poly(vinyl acetate) latex composites for wearable devices. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8502-8512	7.1	13
467	Electroactive biomaterial surface engineering effects on muscle cells differentiation. <i>Materials Science and Engineering C</i> , 2018 , 92, 868-874	8.3	30
466	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
465	Recent Advances in Poly(vinylidene fluoride) and Its Copolymers for Lithium-Ion Battery Separators. <i>Membranes</i> , 2018 , 8,	3.8	84
464	Improving Magnetolectric Contactless Sensing and Actuation through Anisotropic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19189-19196	3.8	12
463	Tailored Biodegradable and Electroactive Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Based Morphologies for Tissue Engineering Applications. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	15
462	Fluorinated Polymers as Smart Materials for Advanced Biomedical Applications. <i>Polymers</i> , 2018 , 10,	4.5	133
461	Low-field giant magneto-ionic response in polymer-based nanocomposites. <i>Nanoscale</i> , 2018 , 10, 15747-15754	15.7	24
460	Highly efficient removal of fluoride from aqueous media through polymer composite membranes. <i>Separation and Purification Technology</i> , 2018 , 205, 1-10	8.3	21
459	Magnetolectric coupling in nanoscale 0-1 connectivity. <i>Nanoscale</i> , 2018 , 10, 17370-17377	7.7	6
458	Nano-sculptured Janus-like TiAg thin films obliquely deposited by GLAD co-sputtering for temperature sensing. <i>Nanotechnology</i> , 2018 , 29, 355706	3.4	13
457	Poly(styreneButene/ethyleneButyrene): A New Polymer Binder for High-Performance Printable Lithium-Ion Battery Electrodes. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3331-3341	6.1	9

456	3.9 Piezoelectric Energy Production 2018 , 380-415		5
455	Theoretical design of high-performance polymer-based magnetoelectric of fibrillar structures. <i>Composites Science and Technology</i> , 2018 , 155, 126-136	8.6	7
454	Optimized Magnetodielectric Coupling on High-Temperature Polymer-Based Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1821-1827	3.8	5
453	Design and fabrication of multilayer inkjet-printed passive components for printed electronics circuit development. <i>Journal of Manufacturing Processes</i> , 2018 , 31, 364-371	5	37
452	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
451	Improved electrochemical performance of rare earth doped LiMn _{1.5-x} Ni _{0.5} RExO ₄ based composite cathodes for lithium-ion batteries. <i>Composites Part B: Engineering</i> , 2018 , 139, 55-63	10	12
450	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
449	Highly effective clean-up of magnetic nanoparticles using microfluidic technology. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2384-2391	8.5	8
448	Multifunctional Platform Based on Electroactive Polymers and Silica Nanoparticles for Tissue Engineering Applications. <i>Nanomaterials</i> , 2018 , 8,	5.4	13
447	Piezoelectric Polymers and Polymer Composites for Sensors and Actuators 2018 ,		
446	Piezoresistive polymer blends for electromechanical sensor applications. <i>Composites Science and Technology</i> , 2018 , 168, 353-362	8.6	32
445	Bombyx mori Silkworm Cocoon Separators for Lithium-Ion Batteries with Superior Safety and Sustainability. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1800098	5.9	12
444	Development of Magnetically Active Scaffolds for Bone Regeneration. <i>Nanomaterials</i> , 2018 , 8,	5.4	15
443	On the use of surfactants for improving nanofiller dispersion and piezoresistive response in stretchable polymer composites. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10580-10588	7.1	18
442	Multifunctional magnetically responsive biocomposites based on genetically engineered silk-elastin-like protein. <i>Composites Part B: Engineering</i> , 2018 , 153, 413-419	10	11
441	Layer-by-layer fabrication of highly transparent polymer based piezoelectric transducers. <i>Materials Research Express</i> , 2018 , 5, 065313	1.7	5
440	Polymer Nanocomposite-Based Strain Sensors with Tailored Processability and Improved Device Integration. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3015-3025	5.6	23
439	A new approach for preparation of metal-containing polyamide/carbon textile laminate composites with tunable electrical conductivity. <i>Journal of Materials Science</i> , 2018 , 53, 11444-11459	4.3	4

438	Local probing of magnetoelectric properties of PVDF/FeO electrospun nanofibers by piezoresponse force microscopy. <i>Nanotechnology</i> , 2017 , 28, 065707	3.4	28
437	Kinetic study of thermal degradation of chitosan as a function of deacetylation degree. <i>Carbohydrate Polymers</i> , 2017 , 167, 52-58	10.3	45
436	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4928-4934	8.9	24
435	Piezoresistive Polymer-Based Materials for Real-Time Assessment of the Stump/Socket Interface Pressure in Lower Limb Amputees. <i>IEEE Sensors Journal</i> , 2017 , 17, 2182-2190	4	10
434	Evaluation and optimization of the magnetoelectric response of CoFe ₂ O ₄ /poly(vinylidene fluoride) composite spheres by computer simulation. <i>Composites Science and Technology</i> , 2017 , 146, 119-130	8.6	16
433	Membranes based on polymer miscibility for selective transport and separation of metallic ions. <i>Journal of Hazardous Materials</i> , 2017 , 336, 188-194	12.8	24
432	Capture and separation of l-histidine through optimized zinc-decorated magnetic silica spheres. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 157, 48-55	6	1
431	Photocatalytic degradation of recalcitrant micropollutants by reusable Fe ₃ O ₄ /SiO ₂ /TiO ₂ particles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 345, 27-35	4.7	33
430	Chitosan patterning on titanium implants. <i>Progress in Organic Coatings</i> , 2017 , 111, 23-28	4.8	19
429	Influence of the sputtering pressure on the morphological features and electrical resistivity anisotropy of nanostructured titanium films. <i>Applied Surface Science</i> , 2017 , 420, 681-690	6.7	21
428	Magnetoelectric response on Terfenol-D/ P(VDF-TrFE) two-phase composites. <i>Composites Part B: Engineering</i> , 2017 , 120, 97-102	10	32
427	Synthesis and improved electrochemical performance of LiMn ₂ xGdxO ₄ based cathodes. <i>Solid State Ionics</i> , 2017 , 300, 18-25	3.3	11
426	Development of water-based printable piezoresistive sensors for large strain applications. <i>Composites Part B: Engineering</i> , 2017 , 112, 344-352	10	55
425	Relationship between nano-architected Ti _{1-x} Cu _x thin film and electrical resistivity for resistance temperature detectors. <i>Journal of Materials Science</i> , 2017 , 52, 4878-4885	4.3	9
424	Nanodiamonds/poly(vinylidene fluoride) composites for tissue engineering applications. <i>Composites Part B: Engineering</i> , 2017 , 111, 37-44	10	33
423	The Influence of Copolymer Composition on PLGA/nHA Scaffolds' Cytotoxicity and In Vitro Degradation. <i>Nanomaterials</i> , 2017 , 7,	5.4	23
422	Marked Object Recognition Multitouch Screen Printed Touchpad for Interactive Applications. <i>Sensors</i> , 2017 , 17,	3.8	6
421	Materials Selection, Processing, and Characterization Technologies 2017 , 13-43		

420	Design of Magnetostrictive Nanoparticles for Magnetoelectric Composites 2017 , 125-151		1
419	Magnetoelectric Composites for Bionics Applications 2017 , 171-195		4
418	Polymer-Based Magnetoelectric Composites: Polymer as a Binder 2017 , 65-85		
417	Types of Polymer-Based Magnetoelectric Materials 2017 , 45-63		
416	Low-Dimensional Polymer-Based Magnetoelectric Structures 2017 , 115-123		
415	Applications of Polymer-Based Magnetoelectric Materials 2017 , 153-170		
414	Energy Harvesting 2017 , 197-224		3
413	Energy Harvesting 2017 , 225-253		2
412	Poly(vinylidene fluoride)-Based Magnetoelectric Polymer Nanocomposite Films 2017 , 87-113		4
411	Mild hydrothermal synthesis and crystal morphology control of LiFePO ₄ by lithium nitrate. <i>Nano Structures Nano Objects</i> , 2017 , 11, 82-87	5.6	7
410	In vivo demonstration of the suitability of piezoelectric stimuli for bone repairment. <i>Materials Letters</i> , 2017 , 209, 118-121	3.3	48
409	Preparation of Poly(vinylidene fluoride) Lithium-Ion Battery Separators and Their Compatibilization with Ionic Liquid [A Green Solvent Approach]. <i>ChemistrySelect</i> , 2017 , 2, 5394-5402	1.8	23
408	Crystal Morphology Control of Synthetic Giniite by Alkaline Cations and pH Variations. <i>Crystal Growth and Design</i> , 2017 , 17, 4710-4714	3.5	7
407	Magnetic cellulose nanocrystal nanocomposites for the development of green functional materials. <i>Carbohydrate Polymers</i> , 2017 , 175, 425-432	10.3	29
406	On the Relevance of the Polar 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
405	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
404	Comparative study of surface properties determination of colored pearl-oyster-shell-derived filler using inverse gas chromatography method and contact angle measurements. <i>International Journal of Adhesion and Adhesives</i> , 2017 , 78, 55-59	3.4	6
403	Cellulose-based magnetoelectric composites. <i>Nature Communications</i> , 2017 , 8, 38	17.4	39

402	Cyclic temperature dependence of electrical conductivity in polyanilines as a function of the dopant and synthesis method. <i>Materials and Design</i> , 2017 , 114, 288-296	8.1	21
401	Electroactive Polymers as Actuators 2017 , 319-352		17
400	Electrospun Polymeric Smart Materials for Tissue Engineering Applications 2017 , 251-282		2
399	Metamorphic biomaterials 2017 , 69-99		5
398	Human Mesenchymal Stem Cells Growth and Osteogenic Differentiation on Piezoelectric Poly(vinylidene fluoride) Microsphere Substrates. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	20
397	Wide-Range Magnetoelectric Response on Hybrid Polymer Composites Based on Filler Type and Content. <i>Polymers</i> , 2017 , 9,	4.5	16
396	Metallic Glass/PVDF Magnetoelectric Laminates for Resonant Sensors and Actuators: A Review. <i>Sensors</i> , 2017 , 17,	3.8	45
395	Temperature and frequency dependence of the dielectric and piezoelectric response of P(VDF/rFE)/CoFe ₂ O ₄ magnetoelectric composites. <i>Lithuanian Journal of Physics</i> , 2017 , 57,	1.1	2
394	Surface free energy and mechanical performance of LDPE/CBF composites containing toxic-metal free filler. <i>International Journal of Adhesion and Adhesives</i> , 2017 , 77, 58-62	3.4	3
393	Design and validation of a biomechanical bioreactor for cartilage tissue culture. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016 , 15, 471-8	3.8	11
392	Poly(vinylidene fluoride-hexafluoropropylene)/bayerite composite membranes for efficient arsenic removal from water. <i>Materials Chemistry and Physics</i> , 2016 , 183, 430-438	4.4	30
391	All-inkjet-printed low-pass filters with adjustable cutoff frequency consisting of resistors, inductors and transistors for sensor applications. <i>Organic Electronics</i> , 2016 , 38, 205-212	3.5	26
390	Understanding nucleation of the electroactive β phase of poly(vinylidene fluoride) by nanostructures. <i>RSC Advances</i> , 2016 , 6, 113007-113015	3.7	57
389	Comparative study of sol-gel methods for the facile synthesis of tailored magnetic silica spheres. <i>Materials Research Express</i> , 2016 , 3, 075402	1.7	10
388	Electromechanical actuators based on poly(vinylidene fluoride) with [N1 1 1 2(OH)][NTf ₂] and [C2mim] [C2SO ₄]. <i>Journal of Materials Science</i> , 2016 , 51, 9490-9503	4.3	34
387	Electronic optimization for an energy harvesting system based on magnetoelectric Metglas/poly(vinylidene fluoride)/Metglas composites. <i>Smart Materials and Structures</i> , 2016 , 25, 085028 ³⁻⁴		30
386	Synthesis and size dependent magnetostrictive response of ferrite nanoparticles and their application in magnetoelectric polymer-based multiferroic sensors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10701-10706	7.1	19
385	Imidazolium-based ionic liquid type dependence of the bending response of polymer actuators. <i>European Polymer Journal</i> , 2016 , 85, 445-451	5.2	34

384	Magnetically Controlled Drug Release System through Magnetomechanical Actuation. <i>Advanced Healthcare Materials</i> , 2016 , 5, 3027-3034	10.1	19
383	Optimization of filler type within poly(vinylidene fluoride-co-trifluoroethylene) composite separator membranes for improved lithium-ion battery performance. <i>Composites Part B: Engineering</i> , 2016 , 96, 94-102	10	37
382	Processing and size range separation of pristine and magnetic poly(l-lactic acid) based microspheres for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2016 , 476, 79-86	9.3	20
381	Strain analysis on Ti1-xAgx and Ag/TiNx electrodes deposited on polymer based sensors. <i>Thin Solid Films</i> , 2016 , 604, 55-62	2.2	1
380	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
379	Computer simulations of the influence of geometry in the performance of conventional and unconventional lithium-ion batteries. <i>Applied Energy</i> , 2016 , 165, 318-328	10.7	31
378	Acetylated bacterial cellulose coated with urinary bladder matrix as a substrate for retinal pigment epithelium. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 139, 1-9	6	31
377	MC3T3-E1 Cell Response to Ti1-xAgx and Ag-TiNx Electrodes Deposited on Piezoelectric Poly(vinylidene fluoride) Substrates for Sensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4199-207	9.5	7
376	Comparative efficiency of TiO2 nanoparticles in suspension vs. immobilization into P(VDF/rFE) porous membranes. <i>RSC Advances</i> , 2016 , 6, 12708-12716	3.7	32
375	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
374	Increasing X-ray to visible transduction performance of Gd2O3:Eu3+PVDF composites by PPO/POPOP addition. <i>Composites Part B: Engineering</i> , 2016 , 91, 610-614	10	10
373	Bacterial cellulose-lactoferrin as an antimicrobial edible packaging. <i>Food Hydrocolloids</i> , 2016 , 58, 126-140	10.6	94
372	Superhydrophilic poly(l-lactic acid) electrospun membranes for biomedical applications obtained by argon and oxygen plasma treatment. <i>Applied Surface Science</i> , 2016 , 371, 74-82	6.7	31
371	Characterization of Metglas/poly(vinylidene fluoride)/Metglas magnetoelectric laminates for AC/DC magnetic sensor applications. <i>Materials and Design</i> , 2016 , 92, 906-910	8.1	25
370	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
369	Proving the suitability of magnetoelectric stimuli for tissue engineering applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 140, 430-436	6	99
368	Reactive microencapsulation of carbon allotropes in polyamide shell-core structures and their transformation in hybrid composites with tailored electrical properties. <i>EXPRESS Polymer Letters</i> , 2016 , 10, 160-175	3.4	12
367	From superhydrophobic- to superhydrophilic-patterned poly(vinylidene fluoride-co-chlorotrifluoroethylene) architectures as a novel platform for biotechnological applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1802-1810	2.6	14

366	Optimized anisotropic magnetoelectric response of Fe _{61.6} Co _{16.4} Si _{10.8} B _{11.2} /PVDF/Fe _{61.6} Co _{16.4} Si _{10.8} B _{11.2} laminates for AC/DC magnetic field sensing. <i>Smart Materials and Structures</i> , 2016 , 25, 055050	3.4	27
365	Hydrophobic/hydrophilic P(VDF-TrFE)/PHEA polymer blend membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 672-679	2.6	3
364	One-Step In Situ Synthesis of Polyamide Microcapsules With Inorganic Payload and Their Transformation into Responsive Thermoplastic Composite Materials. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 119-124	3.9	22
363	Finite-Size Effects in the Absorption Spectra of a Single-Wall Carbon Nanotube. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18268-18274	3.8	8
362	Influence of Solvent Evaporation Rate in the Preparation of Carbon-Coated Lithium Iron Phosphate Cathode Films on Battery Performance. <i>Energy Technology</i> , 2016 , 4, 573-582	3.5	23
361	Mechanical fatigue performance of PCL-chondroprogenitor constructs after cell culture under bioreactor mechanical stimulus. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 330-8	3.5	5
360	Piezoresistive response of nano-architected Ti _x Cu _y thin films for sensor applications. <i>Sensors and Actuators A: Physical</i> , 2016 , 247, 105-114	3.9	14
359	Improved magnetodielectric coefficient on polymer based composites through enhanced indirect magnetoelectric coupling. <i>Applied Physics Letters</i> , 2016 , 109, 112905	3.4	31
358	Study on the surface properties of colored talc filler (CTF) and mechanical performance of CTF/acrylonitrile-butadiene-styrene composite. <i>Journal of Alloys and Compounds</i> , 2016 , 676, 513-520	5.7	7
357	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
356	A green solvent strategy for the development of piezoelectric poly(vinylidene fluoride)trifluoroethylene films for sensors and actuators applications. <i>Materials and Design</i> , 2016 , 104, 183-189	8.1	33
355	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
354	Strong increase of the dielectric response of carbon nanotube/poly(vinylidene fluoride) composites induced by carbon nanotube type and pre-treatment. <i>Composites Part B: Engineering</i> , 2016 , 93, 310-316	10	27
353	Piezoresistive response of spray-printed carbon nanotube/poly(vinylidene fluoride) composites. <i>Composites Part B: Engineering</i> , 2016 , 96, 242-247	10	27
352	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
351	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
350	Giant Electric-Field-Induced Strain in PVDF-Based Battery Separator Membranes Probed by Electrochemical Strain Microscopy. <i>Langmuir</i> , 2016 , 32, 5267-76	4	18
349	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

348	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
347	Ciprofloxacin wastewater treated by UVA photocatalysis: contribution of irradiated TiO ₂ and ZnO nanoparticles on the final toxicity as assessed by <i>Vibrio fischeri</i> . <i>RSC Advances</i> , 2016 , 6, 95494-95503	3.7	36
346	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
345	Synthesis of highly magnetostrictive nanostructures and their application in a polymer-based magnetoelectric sensing device. <i>European Polymer Journal</i> , 2016 , 84, 685-692	5.2	18
344	Computer simulation evaluation of the geometrical parameters affecting the performance of two dimensional interdigitated batteries. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 780, 1-11	4.1	13
343	Influence of fluoropolymer binders on the electrochemical performance of C-LiFePO ₄ based cathodes. <i>Solid State Ionics</i> , 2016 , 295, 57-64	3.3	26
342	Effect of cyano dipolar groups on the performance of lithium-ion battery electrospun polyimide gel electrolyte membranes. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 778, 57-65	4.1	15
341	Preparation and properties of metal-containing polyamide hybrid composites via reactive microencapsulation. <i>Journal of Materials Science</i> , 2016 , 51, 10534-10554	4.3	16
340	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
339	Effect of butadiene/styrene ratio, block structure and carbon nanotube content on the mechanical and electrical properties of thermoplastic elastomers after UV ageing. <i>Polymer Testing</i> , 2015 , 42, 225-233	4.5	33
338	Synthesis, physical and magnetic properties of BaFe ₁₂ O ₁₉ /P(VDF-TrFE) multifunctional composites. <i>European Polymer Journal</i> , 2015 , 69, 224-231	5.2	21
337	Tailored Magnetic and Magnetoelectric Responses of Polymer-Based Composites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15017-22	9.5	86
336	Dielectric relaxation and ferromagnetic resonance in magnetoelectric (Polyvinylidene-fluoride)/ferrite composites. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	7
335	Ion Exchange Dependent Electroactive Phase Content and Electrical Properties of Poly(vinylidene fluoride)/Na(M)Y Composites. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5211-5217	3.8	7
334	Degradation of all-inkjet-printed organic thin-film transistors with TIPS-pentacene under processes applied in textile manufacturing. <i>Organic Electronics</i> , 2015 , 22, 12-19	3.5	28
333	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
332	Effect of the acoustic impedance in ultrasonic emitter transducers using digital modulations. <i>Ocean Engineering</i> , 2015 , 100, 107-116	3.9	6
331	Energy harvesting device based on a metallic glass/PVDF magnetoelectric laminated composite. <i>Smart Materials and Structures</i> , 2015 , 24, 065024	3.4	57

330	Tailoring microstructure and physical properties of poly(vinylidene fluoride-hexafluoropropylene) porous films. <i>Journal of Materials Science</i> , 2015 , 50, 5047-5058	4.3	12
329	Bacterial cellulose as a support for the growth of retinal pigment epithelium. <i>Biomacromolecules</i> , 2015 , 16, 1341-51	6.9	46
328	Magnetoelectric CoFe ₂ O ₄ /polyvinylidene fluoride electrospun nanofibres. <i>Nanoscale</i> , 2015 , 7, 8058-61	7.7	59
327	Transformation of Escherichia coli JM109 using pUC19 by the Yoshida effect. <i>Journal of Microbiological Methods</i> , 2015 , 115, 1-5	2.8	10
326	Determination of the magnetostrictive response of nanoparticles via magnetoelectric measurements. <i>Nanoscale</i> , 2015 , 7, 9457-61	7.7	41
325	Novel Anisotropic Magnetoelectric Effect on FeO(OH)/P(VDF-TrFE) Multiferroic Composites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11224-9	9.5	60
324	Thermal-mechanical behaviour of chitosan-cellulose derivative thermoreversible hydrogel films. <i>Cellulose</i> , 2015 , 22, 1911-1929	5.5	38
323	Development of magnetoelectric CoFe ₂ O ₄ /poly(vinylidene fluoride) microspheres. <i>RSC Advances</i> , 2015 , 5, 35852-35857	3.7	69
322	High performance electromechanical actuators based on ionic liquid/poly(vinylidene fluoride). <i>Polymer Testing</i> , 2015 , 48, 199-205	4.5	45
321	Novel hybrid multifunctional magnetoelectric porous composite films. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 396, 237-241	2.8	15
320	Effect of the degree of porosity on the performance of poly(vinylidene fluoride-trifluoroethylene)/poly(ethylene oxide) blend membranes for lithium-ion battery separators. <i>Solid State Ionics</i> , 2015 , 280, 1-9	3.3	24
319	Poly(vinylidene fluoride-co-chlorotrifluoroethylene) (PVDF-CTFE) lithium-ion battery separator membranes prepared by phase inversion. <i>RSC Advances</i> , 2015 , 5, 90428-90436	3.7	29
318	Piezoelectric polymers as biomaterials for tissue engineering applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 136, 46-55	6	274
317	Antibacterial performance of bovine lactoferrin-fish gelatine electrospun membranes. <i>International Journal of Biological Macromolecules</i> , 2015 , 81, 608-14	7.9	22
316	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
315	Development of electrospun photocatalytic TiO ₂ -polyamide-12 nanocomposites. <i>Materials Chemistry and Physics</i> , 2015 , 164, 91-97	4.4	32
314	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
313	Structural, mechanical and piezoelectric properties of polycrystalline AlN films sputtered on titanium bottom electrodes. <i>Applied Surface Science</i> , 2015 , 354, 267-278	6.7	8

312	Poly(vinylidene fluoride-trifluoroethylene) Porous Films: Tailoring Microstructure and Physical Properties by Solvent Casting Strategies. <i>Soft Materials</i> , 2015 , 13, 243-253	1.7	15
311	Gd ₂ O ₃ :Eu ³⁺ /PPO/POPOP/PS composites for digital imaging radiation detectors. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 121, 581-587	2.6	16
310	Nonsolvent induced phase separation preparation of poly(vinylidene fluoride-co-chlorotrifluoroethylene) membranes with tailored morphology, piezoelectric phase content and mechanical properties. <i>Materials and Design</i> , 2015 , 88, 390-397	8.1	37
309	Effect of Ionic Liquid Anion Type in the Performance of Solid Polymer Electrolytes Based on Poly(Vinylidene fluoride-trifluoroethylene). <i>Electroanalysis</i> , 2015 , 27, 457-464	3	23
308	Size effects on the magnetoelectric response on PVDF/Vitrovac 4040 laminate composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 377, 29-33	2.8	29
307	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
306	Gd ₂ O ₃ :Eu Nanoparticle-Based Poly(vinylidene fluoride) Composites for Indirect X-ray Detection. <i>Journal of Electronic Materials</i> , 2015 , 44, 129-135	1.9	18
305	In vitro mechanical fatigue behavior of poly-ε-caprolactone macroporous scaffolds for cartilage tissue engineering: Influence of pore filling by a poly(vinyl alcohol) gel. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1037-43	3.5	12
304	Ag-TiN _x electrodes deposited on piezoelectric poly(vinylidene fluoride) for biomedical sensor applications. <i>Sensors and Actuators A: Physical</i> , 2015 , 234, 1-8	3.9	3
303	Phase morphology and crystallinity of poly(vinylidene fluoride)/poly(ethylene oxide) piezoelectric blend membranes. <i>Materials Today Communications</i> , 2015 , 4, 214-221	2.5	14
302	Connecting free volume with shape memory properties in noncytotoxic gamma-irradiated polycyclooctene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1080-1088	2.6	9
301	Advances and Future Challenges in Printed Batteries. <i>ChemSusChem</i> , 2015 , 8, 3539-55	8.3	92
300	Tailoring poly(vinylidene fluoride-co-chlorotrifluoroethylene) microstructure and physicochemical properties by exploring its binary phase diagram with dimethylformamide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 761-773	2.6	31
299	Exploring the Properties of Genetically Engineered Silk-Elastin-Like Protein Films. <i>Macromolecular Bioscience</i> , 2015 , 15, 1698-709	5.5	18
298	Dielectric relaxation dynamics of high-temperature piezoelectric polyimide copolymers. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 731-743	2.6	12
297	Poly(vinylidene fluoride) and copolymers as porous membranes for tissue engineering applications. <i>Polymer Testing</i> , 2015 , 44, 234-241	4.5	76
296	Modeling separator membranes physical characteristics for optimized lithium ion battery performance. <i>Solid State Ionics</i> , 2015 , 278, 78-84	3.3	20
295	Towards Green Smart Materials for Force and Strain Sensors: The Case of Polyaniline. <i>Key Engineering Materials</i> , 2015 , 644, 157-162	0.4	3

294	Induced Magnetoelectric Effect Driven by Magnetization in BaFe ₁₂ O ₁₉ -P(VDF-TrFE) Composites. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	6
293	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
292	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
291	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
290	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
289	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
288	Poly(vinylidene fluoride-trifluoroethylene)/NaY zeolite hybrid membranes as a drug release platform applied to ibuprofen release. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 469, 93-99	5.1	26
287	High-temperature polymer based magnetoelectric nanocomposites. <i>European Polymer Journal</i> , 2015 , 64, 224-228	5.2	17
286	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
285	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
284	Effect of filler content on morphology and physical-chemical characteristics of poly(vinylidene fluoride)/NaY zeolite-filled membranes. <i>Journal of Materials Science</i> , 2014 , 49, 3361-3370	4.3	26
283	Processing and characterization of elastin electrospun membranes. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 115, 1291-1298	2.6	11
282	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
281	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
280	Modifying Fish Gelatin Electrospun Membranes for Biomedical Applications: Cross-Linking and Swelling Behavior. <i>Soft Materials</i> , 2014 , 12, 247-252	1.7	15
279	Extruded thermoplastic elastomers styrene-butadiene-styrene/carbon nanotubes composites for strain sensor applications. <i>Composites Part B: Engineering</i> , 2014 , 57, 242-249	10	64
278	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
277	Numerical prediction of acoustic streaming in a microcuvette. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 1988-1998	2.3	12

276	Synthesis and characterization of novel piezoelectric nitrile copolyimide films for high temperature sensor applications. <i>Smart Materials and Structures</i> , 2014 , 23, 105015	3.4	10
275	Development of high sensitive polyaniline based piezoresistive films by conventional and green chemistry approaches. <i>Sensors and Actuators A: Physical</i> , 2014 , 220, 13-21	3.9	34
274	Nanostructured functional TiAg electrodes for large deformation sensor applications. <i>Sensors and Actuators A: Physical</i> , 2014 , 220, 204-212	3.9	17
273	TiAg _x electrodes deposited on polymer based sensors. <i>Applied Surface Science</i> , 2014 , 317, 490-495	6.7	12
272	Electrosprayed poly(vinylidene fluoride) microparticles for tissue engineering applications. <i>RSC Advances</i> , 2014 , 4, 33013-33021	3.7	61
271	Effect of cylindrical filler aggregation on the electrical conductivity of composites. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 2985-2988	2.3	11
270	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
269	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
268	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
267	Effect of neutralization and cross-linking on the thermal degradation of chitosan electrospun membranes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 117, 123-130	4.1	10
266	PHB-PEO electrospun fiber membranes containing chlorhexidine for drug delivery applications. <i>Polymer Testing</i> , 2014 , 34, 64-71	4.5	76
265	All-Inkjet-Printed Bottom-Gate Thin-Film Transistors Using UV Curable Dielectric for Well-Defined Source-Drain Electrodes. <i>Journal of Electronic Materials</i> , 2014 , 43, 2631-2636	1.9	32
264	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
263	Influence of different salts in poly(vinylidene fluoride-co-trifluoroethylene) electrolyte separator membranes for battery applications. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 727, 125-134	4.1	9
262	Polymer-based acoustic streaming for improving mixing and reaction times in microfluidic applications. <i>RSC Advances</i> , 2014 , 4, 4292-4300	3.7	24
261	Electrical properties of intrinsically conductive core-shell polypyrrole/poly(vinylidene fluoride) electrospun fibers. <i>Synthetic Metals</i> , 2014 , 197, 198-203	3.6	13
260	Piezoelectric actuators for acoustic mixing in microfluidic devices: Numerical prediction and experimental validation of heat and mass transport. <i>Sensors and Actuators B: Chemical</i> , 2014 , 205, 206-214	8.5	36
259	Sharing of classical and quantum correlations via XY interaction. <i>Annals of Physics</i> , 2014 , 348, 23-31	2.5	1

258	Influence of the porosity degree of poly(vinylidene fluoride-co-hexafluoropropylene) separators in the performance of Li-ion batteries. <i>Journal of Power Sources</i> , 2014 , 263, 29-36	8.9	31
257	Predicting the mechanical behavior of amorphous polymeric materials under strain through multi-scale simulation. <i>Applied Surface Science</i> , 2014 , 306, 37-46	6.7	9
256	Li-ion battery separator membranes based on barium titanate and poly(vinylidene fluoride-co-trifluoroethylene): Filler size and concentration effects. <i>Electrochimica Acta</i> , 2014 , 117, 276-284	6.7	25
255	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
254	Carbon nanofiber type and content dependence of the physical properties of carbon nanofiber reinforced polypropylene composites. <i>Polymer Engineering and Science</i> , 2014 , 54, 117-128	2.3	22
253	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	3.3	26
252	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, n/a-n/a	2.9	17
251	Thermo-sensitive chitosan/ellulose derivative hydrogels: swelling behaviour and morphologic studies. <i>Cellulose</i> , 2014 , 21, 4531-4544	5.5	26
250	Influence of electrospinning parameters on poly(hydroxybutyrate) electrospun membranes fiber size and distribution. <i>Polymer Engineering and Science</i> , 2014 , 54, 1608-1617	2.3	30
249	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
248	Electroactive phases of poly(vinylidene fluoride): Determination, processing and applications. <i>Progress in Polymer Science</i> , 2014 , 39, 683-706	29.6	1743
247	Influence of solvent properties on the electrical response of poly(vinylidene fluoride)/NaY composites. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	7
246	Thermal degradation of Pb(Zr _{0.53} Ti _{0.47})O ₃ /poly(vinylidene fluoride) composites as a function of ceramic grain size and concentration. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 114, 757-763	4.1	8
245	Large linear anhysteretic magnetoelectric voltage coefficients in CoFe ₂ O ₄ /polyvinylidene fluoride 0/8 nanocomposites. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	21
244	Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. <i>IEEE Sensors Journal</i> , 2013 , 13, 2603-2609	4	18
243	Extrusion of poly(vinylidene fluoride) recycled filaments: Effect of the processing cycles on the degree of crystallinity and electroactive phase content. <i>Polymer Testing</i> , 2013 , 32, 1041-1044	4.5	5
242	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
241	Composition-dependent physical properties of poly[(vinylidene fluoride)-co-trifluoroethylene]/poly(ethylene oxide) blends. <i>Journal of Materials Science</i> , 2013 , 48, 3494-3504	4.3	32

240	Osteoblast, fibroblast and in vivo biological response to poly(vinylidene fluoride) based composite materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 395-403	4.5	34
239	Thermal and hydrolytic degradation of electrospun fish gelatin membranes. <i>Polymer Testing</i> , 2013 , 32, 995-1000	4.5	55
238	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
237	Li-ion battery separator membranes based on poly(vinylidene fluoride-trifluoroethylene)/carbon nanotube composites. <i>Solid State Ionics</i> , 2013 , 249-250, 63-71	3.3	19
236	Electro-mechanical properties of triblock copolymer styrene-butadiene-styrene/carbon nanotube composites for large deformation sensor applications. <i>Sensors and Actuators A: Physical</i> , 2013 , 201, 458-467	2.9	65
235	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	2.9	27
234	Development of solid polymer electrolytes based on poly(vinylidene fluoride-trifluoroethylene) and the [N1 1 1 2(OH)][NTF2] ionic liquid for energy storage applications. <i>Solid State Ionics</i> , 2013 , 253, 143-150	3.3	26
233	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
232	Piezoresistive response of carbon nanotubes-polyamides composites processed by extrusion. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	18
231	Fatigue prediction in fibrin poly-ε-caprolactone macroporous scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 28, 55-61	4.1	18
230	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
229	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
228	Relationship between electromechanical response and percolation threshold in carbon nanotube/poly(vinylidene fluoride) composites. <i>Carbon</i> , 2013 , 61, 568-576	10.4	48
227	Mechanical, electrical and electro-mechanical properties of thermoplastic elastomer styrene-butadiene-styrene/multiwall carbon nanotubes composites. <i>Journal of Materials Science</i> , 2013 , 48, 1172-1179	4.3	60
226	Influence of zeolite structure and chemistry on the electrical response and crystallization phase of poly(vinylidene fluoride). <i>Journal of Materials Science</i> , 2013 , 48, 2199-2206	4.3	21
225	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
224	Rheological and electrical analysis in carbon nanofiber reinforced polypropylene composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 207-213	2.6	14
223	Piezoresistive sensors for force mapping of hip-prostheses. <i>Sensors and Actuators A: Physical</i> , 2013 , 195, 133-138	3.9	9

222	Bioactive albumin functionalized polylactic acid membranes for improved biocompatibility. <i>Reactive and Functional Polymers</i> , 2013 , 73, 1399-1404	4.6	26
221	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
220	Phase nucleation and electrical response of poly(vinylidene fluoride)/microporous titanosilicates composites. <i>Materials Chemistry and Physics</i> , 2013 , 138, 553-558	4.4	16
219	Polymer-Based Magnetoelectric Materials. <i>Advanced Functional Materials</i> , 2013 , 23, 3371-3385	15.6	244
218	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
217	Evaluation of the main processing parameters influencing the performance of poly(vinylidene fluoride-trifluoroethylene) lithium-ion battery separators. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 861-870	2.6	29
216	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
215	Novel poly(vinylidene fluoride-trifluoroethylene)/poly(ethylene oxide) blends for battery separators in lithium-ion applications. <i>Electrochimica Acta</i> , 2013 , 88, 473-476	6.7	36
214	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	4.3	17
213	Improving the binding capacity of Ni ²⁺ decorated porous magnetic silica spheres for histidine-rich protein separation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 101, 370-5	6	7
212	Nucleation of the electroactive 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
211	Electrospun silk-elastin-like fibre mats for tissue engineering applications. <i>Biomedical Materials (Bristol)</i> , 2013 , 8, 065009	3.5	60
210	Development of inkjet printed strain sensors. <i>Smart Materials and Structures</i> , 2013 , 22, 105028	3.4	70
209	Preparation of Magnetoelectric Composites by Nucleation of the Electroactive Phase of Poly(vinylidene fluoride) by NiZnFe ₂ O ₄ Nanoparticles. <i>Sensor Letters</i> , 2013 , 11, 110-114	0.9	8
208	Design and characterization of Ni ²⁺ and Co ²⁺ decorated Porous Magnetic Silica spheres synthesized by hydrothermal-assisted modified-Stober method for His-tagged proteins separation. <i>Journal of Colloid and Interface Science</i> , 2012 , 365, 156-62	9.3	29
207	Dielectric and magnetic properties of ferrite/poly(vinylidene fluoride) nanocomposites. <i>Materials Chemistry and Physics</i> , 2012 , 131, 698-705	4.4	110
206	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
205	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

204	Effect of the microstructure and lithium-ion content in poly[(vinylidene fluoride)-co-trifluoroethylene]/lithium perchlorate trihydrate composite membranes for battery applications. <i>Solid State Ionics</i> , 2012 , 217, 19-26	3.3	26
203	Quantitative evaluation of the dispersion achievable using different preparation methods and DC electrical conductivity of vapor grown carbon nanofiber/epoxy composites. <i>Polymer Testing</i> , 2012 , 31, 697-704	4.5	14
202	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	4.5	21
201	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
200	Bi ₂ Te ₃ -Sb ₂ Te ₃ on polymeric substrate for X-ray detectors based on the seebeck effect. <i>Microsystem Technologies</i> , 2012 , 18, 1-8	1.7	5
199	On the origin of the electrical response of vapor grown carbon nanofiber + epoxy composites. <i>E-Polymers</i> , 2012 , 12,	2.7	1
198	Role of Nanoparticle Surface Charge on the Nucleation of the Electroactive Poly(vinylidene fluoride) Nanocomposites for Sensor and Actuator Applications. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15790-15794	3.8	176
197	Porous Membranes of Montmorillonite/Poly(vinylidene fluoride-trifluoroethylene) for Li-Ion Battery Separators. <i>Electroanalysis</i> , 2012 , 24, 2147-2156	3	51
196	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
195	Fiber average size and distribution dependence on the electrospinning parameters of poly(vinylidene fluoride-trifluoroethylene) membranes for biomedical applications. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 109, 685-691	2.6	32
194	The effect of nanotube surface oxidation on the electrical properties of multiwall carbon nanotube/poly(vinylidene fluoride) composites. <i>Journal of Materials Science</i> , 2012 , 47, 8103-8111	4.3	32
193	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
192	Microporous Poly(Vinylidene Fluoride-Trifluoroethylene)/Zeolite Membranes for Lithium-Ion Battery Applications. <i>Procedia Engineering</i> , 2012 , 44, 983-984		1
191	[P1.034] Comparing Performance of Solid Polymer Electrolytes Based on Poly(Vinylidene Fluoride-Trifluoroethylene) Obtained by Different Processing Techniques. <i>Procedia Engineering</i> , 2012 , 44, 751-752		
190	On the origin of the electroactive poly(vinylidene fluoride) phase nucleation by ferrite nanoparticles via surface electrostatic interactions. <i>CrystEngComm</i> , 2012 , 14, 2807	3.3	198
189	Electrical and thermal behavior of phase poly(vinylidene fluoride)/NaY zeolite composites. <i>Microporous and Mesoporous Materials</i> , 2012 , 161, 98-105	5.3	37
188	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
187	Thermal Properties of Electrospun Poly(Lactic Acid) Membranes. <i>Journal of Macromolecular Science - Physics</i> , 2012 , 51, 411-424	1.4	20

186	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
185	Fibronectin adsorption and cell response on electroactive poly(vinylidene fluoride) films. <i>Biomedical Materials (Bristol)</i> , 2012 , 7, 035004	3.5	69
184	Optimization of piezoelectric ultrasound emitter transducers for underwater communications. <i>Sensors and Actuators A: Physical</i> , 2012 , 184, 141-148	3.9	27
183	Temperature dependence of the electrical conductivity of vapor grown carbon nanofiber/epoxy composites with different filler dispersion levels. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 3290-3294	2.3	6
182	Physical-chemical properties of cross-linked chitosan electrospun fiber mats. <i>Polymer Testing</i> , 2012 , 31, 1062-1069	4.5	40
181	Hydrothermal assisted synthesis of iron oxide-based magnetic silica spheres and their performance in magnetophoretic water purification. <i>Materials Chemistry and Physics</i> , 2012 , 135, 510-517	4.4	25
180	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
179	Modeling Carbon Nanotube Electrical Properties in CNT/Polymer Composites. <i>Advanced Structured Materials</i> , 2012 , 287-295	0.6	
178	Development of a Piezoelectric Transducers System to Improve Mixing of Fluids. <i>Procedia Engineering</i> , 2012 , 47, 706-709		
177	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
176	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
175	Suitability of PLLA as Piezoelectric Substrates for Tissue Engineering Evidenced by Microscopy Techniques. <i>Microscopy and Microanalysis</i> , 2012 , 18, 63-64	0.5	8
174	Enhanced proliferation of pre-osteoblastic cells by dynamic piezoelectric stimulation. <i>RSC Advances</i> , 2012 , 2, 11504	3.7	82
173	Influence of filler size and concentration on the low and high temperature dielectric response of poly(vinylidene fluoride) /Pb(Zr _{0.53} Ti _{0.47})O ₃ composites. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	17
172	Comparative analyses of the electrical properties and dispersion level of VGCNF and MWCNT: Epoxy composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1253-1261	2.6	3
171	Assessment of parameters influencing fiber characteristics of chitosan nanofiber membrane to optimize fiber mat production. <i>Polymer Engineering and Science</i> , 2012 , 52, 1293-1300	2.3	12
170	Piezoresistive effect in spin-coated polyaniline thin films. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	19
169	Piezoresistive polypropylene-carbon nanofiber composites as mechanical transducers. <i>Microsystem Technologies</i> , 2012 , 18, 591-597	1.7	9

168	Determination of the parameters affecting electrospun chitosan fiber size distribution and morphology. <i>Carbohydrate Polymers</i> , 2012 , 87, 1295-1301	10.3	80
167	The role of disorder on the AC and DC electrical conductivity of vapour grown carbon nanofibre/epoxy composites. <i>Composites Science and Technology</i> , 2012 , 72, 243-247	8.6	23
166	Room Temperature Magnetic Response of Sputter Deposited TbDyFe Films as a Function of the Deposition Parameters. <i>Journal of Nano Research</i> , 2012 , 18-19, 235-239	1	3
165	Critical behavior of a three-dimensional hardcore-cylinder composite system. <i>Physical Review E</i> , 2012 , 85, 021115	2.4	3
164	Electroactive Poly(Vinylidene Fluoride-Trifluorethylene) (PVDF-TrFE) Microporous Membranes for Lithium-Ion Battery Applications. <i>Ferroelectrics</i> , 2012 , 430, 103-107	0.6	18
163	Piezoresistive response of Pluronic-wrapped single-wall carbon nanotube/epoxy composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 909-917	2.3	7
162	Fabrication of poly(lactic acid)-poly(ethylene oxide) electrospun membranes with controlled micro to nanofiber sizes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6746-53	1.3	7
161	Nanoparticle dispersion and electroactive phase content in polyvinylidene fluoride/Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nanocomposites for magnetoelectric applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6845-9	1.3	9
160	Reversible aggregation and chemical resistance of magnetic nanoclusters for their recycling and repetitive use in industrial bioprocesses. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6707-11	1.3	
159	Effect of zeolite content in the electrical, mechanical and thermal degradation response of poly(vinylidene fluoride)/NaY zeolite composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6804-10	1.3	17
158	A numerical study on the heat transfer generated by a piezoelectric transducer in a microfluidic system. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012091	0.3	3
157	Large Area Microfabrication of Electroactive Polymeric Structures Based on Near-Field Electrospinning. <i>Procedia Engineering</i> , 2011 , 25, 888-891		5
156	Applying complex network theory to the understanding of high-aspect-ratio carbon-filled composites. <i>Europhysics Letters</i> , 2011 , 93, 37005	1.6	23
155	Optimizing piezoelectric and magnetoelectric responses on CoFe ₂ O ₄ /P(VDF-TrFE) nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 495303	3	110
154	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
153	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
152	Review on X-ray Detectors Based on Scintillators and CMOS Technology. <i>Recent Patents on Electrical Engineering</i> , 2011 , 4, 16-41		10
151	The influence of the dispersion method on the electrical properties of vapor-grown carbon nanofiber/epoxy composites. <i>Nanoscale Research Letters</i> , 2011 , 6, 370	5	20

150	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
149	Nucleation of the Electroactive 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
148	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
147	Extrusion of poly(vinylidene fluoride) filaments: effect of the processing conditions and conductive inner core on the electroactive phase content and mechanical properties. <i>Journal of Polymer Research</i> , 2011 , 18, 1653-1658	2.7	35
146	Horizontal low gradient magnetophoresis behaviour of iron oxide nanoclusters at the different steps of the synthesis route. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3199-3206	2.3	33
145	Nucleation of electroactive phase poly(vinylidene fluoride) with CoFe ₂ O ₄ and NiFe ₂ O 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
144	The influence of matrix mediated hopping conductivity, filler concentration, aspect ratio and orientation on the electrical response of carbon nanotube/polymer nanocomposites. <i>Composites Science and Technology</i> , 2011 , 71, 643-646	8.6	27
143	Thermal, dielectrical and mechanical response of poly(vinylidene fluoride)/Co-MgO nanocomposites. <i>Nanoscale Research Letters</i> , 2011 , 6, 257	5	16
142	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
141	Cohesive strength of nanocrystalline ZnO:Ga thin films deposited at room temperature. <i>Nanoscale Research Letters</i> , 2011 , 6, 309	5	10
140	X-ray scattering experiments on sputtered titanium dioxide coatings onto PVDF polymers for self-cleaning applications. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 726-731	2.9	11
139	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
138	Piezoresistive silicon thin film sensor array for biomedical applications. <i>Thin Solid Films</i> , 2011 , 519, 4574-4577	4.2	28
137	Poly(vinylidene fluoride-trifluoroethylene) (72/28) interconnected porous membranes obtained by crystallization from solution. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1312, 1		11
136	Nucleation of the electroactive phase of poly(vinylidene fluoride) by ferrite nanoparticles: surface versus size effects. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1312, 1		
135	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
134	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	13
133	Multifunctional Braided Composite Rods for Civil Engineering Applications. <i>Advanced Materials Research</i> , 2010 , 123-125, 149-152	0.5	4

132	Pixel Readout Circuit for X-Ray Imagers. <i>IEEE Sensors Journal</i> , 2010 , 10, 1740-1745	4	7
131	Degradation studies of transparent conductive electrodes on electroactive poly(vinylidene fluoride) for uric acid measurements. <i>Science and Technology of Advanced Materials</i> , 2010 , 11, 045006	7.1	2
130	Heating of samples by acoustic microagitation for improving reaction of biological fluids 2010 ,		1
129	Touchscreen based on acoustic pulse recognition with piezoelectric polymer sensors 2010 ,		8
128	Mn-doped ZnO nanocrystals embedded in Al ₂ O ₃ : structural and electrical properties. <i>Nanotechnology</i> , 2010 , 21, 505705	3.4	11
127	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
126	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
125	Energy Harvesting From Piezoelectric Materials Fully Integrated in Footwear. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 813-819	8.9	160
124	Enhancement of the Dielectric Constant and Thermal Properties of β -Poly(vinylidene fluoride)/Zeolite Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14446-14452	3.8	25
123	Influence of processing parameters on the polymer phase, microstructure and macroscopic properties of poly(vinylidene fluoride)/Pb(Zr _{0.53} Ti _{0.47})O ₃ composites. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2127-2133	3.9	27
122	The Role of Solvent Evaporation in the Microstructure of Electroactive β -Poly(Vinylidene Fluoride) Membranes Obtained by Isothermal Crystallization. <i>Soft Materials</i> , 2010 , 9, 1-14	1.7	35
121	The piezoresistive effect in polypropylene-carbon nanofibre composites obtained by shear extrusion. <i>Smart Materials and Structures</i> , 2010 , 19, 065013	3.4	48
120	Design and fabrication of piezoelectric microactuators based on β -poly (vinylidene fluoride) films for microfluidic applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 903-6	0.9	1
119	N-doped photocatalytic titania thin films on active polymer substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 1072-7	1.3	10
118	Functionally graded electroactive Poly(vinylidene fluoride) polymers. <i>International Journal of Materials and Product Technology</i> , 2010 , 39, 178	1	5
117	Influence of fiber aspect ratio and orientation on the dielectric properties of polymer-based nanocomposites. <i>Journal of Materials Science</i> , 2010 , 45, 268-270	4.3	13
116	Isothermal crystallization kinetics of poly(vinylidene fluoride) in the β phase in the scope of the Avrami equation. <i>Journal of Materials Science</i> , 2010 , 45, 1328-1335	4.3	37
115	Lab-on-a-chip with beta-poly(vinylidene fluoride) based acoustic microagitation. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1184-90	5	17

114	Band PVPDF: Crystallization kinetics, microstructural variations and thermal behaviour. <i>Materials Chemistry and Physics</i> , 2010 , 122, 87-92	4.4	82
113	Poly[(vinylidene fluoride)-co-trifluoroethylene] Membranes Obtained by Isothermal Crystallization from Solution. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 523-528	3.9	35
112	Comparative finite element analyses of piezoelectric ceramics and polymers at high frequency for underwater wireless communications. <i>Procedia Engineering</i> , 2010 , 5, 99-102		10
111	Stability of the electroactive response of Ppoly(vinylidene fluoride) for applications in the petrochemical industry. <i>Polymer Testing</i> , 2010 , 29, 613-615	4.5	13
110	Strain dependence electrical resistance and cohesive strength of ITO thin films deposited on electroactive polymer. <i>Thin Solid Films</i> , 2010 , 518, 4525-4528	2.2	10
109	Hydrogel-based photonic sensor for a biopotential wearable recording system. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 80-6	11.8	24
108	The dominant role of tunneling in the conductivity of carbon nanofiber-epoxy composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 407-410	1.6	34
107	Self-monitoring Composite Rods for Sustainable Construction. <i>Communications in Computer and Information Science</i> , 2010 , 193-201	0.3	1
106	Self-diagnosing braided composite rod 2010 , 543-544		
105	Wearable brain cap with contactless electroencephalogram measurement for brain-computer interface applications 2009 ,		2
104	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
103	Biological microdevice with fluidic acoustic streaming for measuring uric acid in human saliva. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5879-82	0.9	2
102	Development of a Flexible Conductive Polymer Membrane on Electroactive Hydrogel Microfibers. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1234, 1		
101	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
100	Effect of antistatic additives on mechanical and electrical properties of polyethylene foams. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1595-1600	2.9	15
99	Relationship between the microstructure and the microscopic piezoelectric response of the P and P phases of poly(vinylidene fluoride). <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 875-880	2.6	41
98	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
97	Organic functionalization of carbon nanofibers for composite applications. <i>Polymer Composites</i> , 2009 , 31, NA-NA	3	1

96	Structural and electrical properties of Al doped ZnO thin films deposited at room temperature on poly(vinylidene fluoride) substrates. <i>Thin Solid Films</i> , 2009 , 517, 6290-6293	2.2	23
95	Ultra-sensitive shape sensor test structures based on piezoresistive doped nanocrystalline silicon. <i>Vacuum</i> , 2009 , 83, 1279-1282	3.7	6
94	Local variation of the dielectric properties of poly(vinylidene fluoride) during the β to β' phase transformation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 177-180	2.3	75
93	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
92	β to β' 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
91	X-Ray Image Detector Based on Light Guides and Scintillators. <i>IEEE Sensors Journal</i> , 2009 , 9, 1154-1159	4	11
90	Sigma-delta A/D converter for CMOS image sensors 2009 ,		2
89	Piezoelectric micropump for lab-on-a-chip applications 2009 ,		1
88	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2009 , 58, 2830-2836	5.2	34
87	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
86	Molecular Orientation and Degree of Crystallinity of Piezoelectric Poly(Vinylidene Fluoride) Films Exclusively in the β' Phase. <i>Ferroelectrics</i> , 2008 , 370, 29-35	0.6	8
85	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
84	Fabrication of a strain sensor for bone implant failure detection based on piezoresistive doped nanocrystalline silicon. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2585-2589	3.9	20
83	Microscopic origin of the high-strain mechanical response of poled and non-poled poly(vinylidene fluoride) in the β' phase. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 3871-3876	3.9	16
82	Piezoelectric β' PVDF polymer films as fluid acoustic microagitator 2008 ,		3
81	Structural and Mechanical Properties of AZOY Thin Films Deposited on Flexible Substrates. <i>Materials Science Forum</i> , 2008 , 587-588, 834-838	0.4	
80	Influence of the Crystallization Kinetics on the Microstructural Properties of β' PVDF. <i>Materials Science Forum</i> , 2008 , 587-588, 534-537	0.4	2
79	Ultrasonic Transducer Based on β' PVDF for Fluidic Microagitation in a Lab-on-a-Chip Device. <i>Advances in Science and Technology</i> , 2008 , 57, 99-104	0.1	6

78	On the Dispersion of Carbon Nanofibre-Based Suspensions in Simple Shear: An Experimental Study. <i>Materials Science Forum</i> , 2008 , 587-588, 192-196	0.4	1
77	Photodegradation Studies of Poly(Vinylidene Fluoride). <i>Materials Science Forum</i> , 2008 , 587-588, 543-547	0.4	1
76	A Lab-on-a-Chip for Clinical Analysis with Acoustic Microagitation based on Piezoelectric Poly(Vinylidene Fluoride). <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1138, 1		
75	Strain analysis of photocatalytic TiO ₂ thin films on polymer substrates. <i>Thin Solid Films</i> , 2008 , 516, 1434-1438	1.3	21
74	Performance of electroactive poly(vinylidene fluoride) against UV radiation. <i>Polymer Testing</i> , 2008 , 27, 818-822	4.5	28
73	Influence of air oxidation on the properties of decorative NbO _x N _y coatings prepared by reactive gas pulsing. <i>Surface and Coatings Technology</i> , 2008 , 202, 2363-2367	4.4	15
72	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
71	Piezoresistive properties of nanocrystalline silicon thin films deposited on plastic substrates by hot-wire chemical vapor deposition. <i>Thin Solid Films</i> , 2007 , 515, 7658-7661	2.2	12
70	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
69	CMOS X-ray Image Sensor Array 2007 ,		4
68	Reconfigurable On-Chip Folded-Patch Antenna using Tunable Electroactive Materials 2007 ,		1
67	Electrical and Microstructural Changes of β PVDF under Different Processing Conditions by Scanning Force Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 949, 1		2
66	Piezoelectric and Optical Response of Uniaxially Stretched (VDF/TrFE) (75/25) Copolymer Films. <i>Materials Science Forum</i> , 2006 , 514-516, 945-950	0.4	7
65	β to α Transformation on PVDF Films Obtained by Uniaxial Stretch. <i>Materials Science Forum</i> , 2006 , 514-516, 872-876	0.4	76
64	Influence of the Crystallisation Kinetics on the Microstructural Properties of β PVDF. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 949, 1		
63	Separation of the Pyro- and Piezoelectric Response of Electroactive Polymers for Sensor Applications. <i>Materials Science Forum</i> , 2006 , 514-516, 202-206	0.4	6
62	Effect of Poling on the Mechanical Properties of β Poly(Vinylidene Fluoride). <i>Materials Science Forum</i> , 2006 , 514-516, 951-955	0.4	5
61	3 Axis Capacitive Tactile Sensor and Readout Electronics 2006 ,		12

60	Electrical and Microstructural Changes of β PVDF under Uniaxial Stress Studied by Scanning Force Microscopy. <i>Materials Science Forum</i> , 2006 , 514-516, 915-919	0.4	7
59	A Tunable Fabry-Perot Optical Filter for Application in Biochemical Analysis of Human's Fluids 2006 ,		3
58	3-D Modeling of Scintillator-Based X-ray Detectors. <i>IEEE Sensors Journal</i> , 2006 , 6, 1236-1242	4	4
57	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
56	Thermal characterization of a vinylidene fluoride-trifluoroethylene (75/25) (%mol) copolymer film. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5376-5381	3.9	24
55	Optical coupling between scintillators and standard CMOS detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 556, 281-286	1.2	1
54	Property change in multifunctional Ti_xO_y thin films: Effect of the O/Ti ratio. <i>Thin Solid Films</i> , 2006 , 515, 866-871	2.2	42
53	Atomistic modelling of processes involved in poling of PVDF. <i>Computational Materials Science</i> , 2005 , 33, 230-236	3.2	42
52	Poling of β poly(vinylidene fluoride): dielectric and IR spectroscopy studies. <i>E-Polymers</i> , 2005 , 5,	2.7	13
51	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
50	Polarization behavior in systems with competing ferroelectric and antiferroelectric interactions. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 1141-1148	1.3	2
49	3 Axis Capacitive Tactile Sensor 2005 ,		6
48	Behaviour of the Ferroelectric Phase Transition of P(VDF/TrFE) (75/25) with Increasing Deformation. <i>Ferroelectrics</i> , 2004 , 304, 23-26	0.6	3
47	Dynamic mechanical analysis and creep behaviour of β PVDF films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 370, 336-340	5.3	78
46	Effect of the mechanical stretching on the ferroelectric properties of a (VDF/TrFE) (75/25) copolymer film. <i>Solid State Communications</i> , 2004 , 129, 5-8	1.6	19
45	Characterization of poled and non-poled β PVDF films using thermal analysis techniques. <i>Thermochimica Acta</i> , 2004 , 424, 201-207	2.9	102
44	CMOS X-rays detector array based on scintillating light guides. <i>Sensors and Actuators A: Physical</i> , 2004 , 110, 119-123	3.9	16
43	Comparison between bulk micromachined and CMOS X-ray detectors. <i>Sensors and Actuators A: Physical</i> , 2004 , 115, 215-220	3.9	4

42	Ferroelectric/Antiferroelectric Phase Coexistence in the Intermediate Concentration Regions of the BA x BP1-x Phase Diagram. <i>Ferroelectrics</i> , 2004 , 301, 191-194	0.6	
41	Electrical Response of PVDF in a Constant Uniaxial Strain Rate Deformation. <i>Ferroelectrics</i> , 2004 , 304, 43-46	0.6	2
40	Paraelectric-Antiferroelectric Phase Coexistence in the Deuteron Glass $\text{Rb}_{0.5}(\text{ND}_4)_{0.5}\text{D}_2\text{AsO}_4$. <i>Ferroelectrics</i> , 2004 , 300, 117-120	0.6	1
39	Mechanical Characterization and Influence of the High Temperature Shrinkage of PVDF Films on its Electromechanical Properties. <i>Ferroelectrics</i> , 2003 , 294, 61-71	0.6	17
38	X-ray detector based on a bulk micromachined photodiode combined with a scintillating crystal. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, S45-S50	2	7
37	Chain Reorientation in PVDF Films Upon Transverse Mechanical Deformation Studied by SEM and Dielectric Relaxation. <i>Ferroelectrics</i> , 2003 , 294, 73-83	0.6	4
36	Raman and infrared study of the quasi-one-dimensional betaine arsenate-phosphate mixed-crystal system. <i>Physical Review B</i> , 2003 , 67,	3.3	9
35	Physical and morphological characterization of reactively magnetron sputtered TiN films. <i>Thin Solid Films</i> , 2002 , 420-421, 421-428	2.2	20
34	Phase Diagram and Dielectric Properties of Mixed $\text{Cs}_{1-x}(\text{NH}_4)_x\text{H}_2\text{PO}_4$ Crystals. <i>Ferroelectrics</i> , 2002 , 272, 225-230	0.6	4
33	Cooperative and Local Relaxations in Complex Systems: Polymers and Crystals. <i>Ferroelectrics</i> , 2002 , 270, 271-276	0.6	6
32	The Dynamics of the Glass Transition in a Semicrystalline PET Studied by Mechanical and Dielectric Spectroscopic Methods. <i>Defect and Diffusion Forum</i> , 2002 , 206-207, 131-134	0.7	4
31	Dielectric Behavior in an Oriented PVDF Film and Chain Reorientation Upon Transverse Mechanical Deformation. <i>Ferroelectrics</i> , 2002 , 273, 15-20	0.6	36
30	Antiferroelectric ADP doping in ferroelectric TGS crystals. <i>Materials Letters</i> , 2002 , 54, 329-336	3.3	8
29	FTIR AND DSC STUDIES OF MECHANICALLY DEFORMED PVDF FILMS. <i>Journal of Macromolecular Science - Physics</i> , 2001 , 40, 517-527	1.4	303
28	Temperature Calibration in Dielectric Measurements. <i>Magyar Akadémiai Közlemények</i> , 2001 , 65, 37-49	0	8
27	Re-crystallization of MNA under a strong dc electric field. <i>Solid State Sciences</i> , 2001 , 3, 733-740	3.4	4
26	Simple versus cooperative relaxations in complex correlated systems. <i>Journal of Applied Physics</i> , 2001 , 89, 1844	2.5	10
25	Modification of Ferroelectric Properties of TGS Crystals Grown under a dc Electric field. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 658, 351		1

24	Dielectric relaxation in pure and irradiated TGSP crystals. <i>Materials Letters</i> , 2000 , 44, 237-241	3.3	2
23	Dielectric, NMR and X-ray diffraction study of pseudo-one-dimensional Cs _{1-x} (NH ₄) _x H ₂ PO ₄ . <i>Ferroelectrics</i> , 1999 , 226, 159-167	0.6	0
22	Review of experimental and theoretical results for the betaine arsenate/phosphate mixed crystals system. <i>Ferroelectrics</i> , 1999 , 226, 107-124	0.6	4
21	Anomalous and normal protonic conductivity in Cs _{1-x} (NH ₄) _x H ₂ PO ₄ , Cs _{1-x} (ND ₄) _x D ₂ PO ₄ , and K _{1-x} (NH ₄) _x H ₂ PO ₄ . <i>Solid State Ionics</i> , 1999 , 125, 147-157	3.3	5
20	Phase coexistence in the deuteron glass Rb _{0.9} (ND ₄) _{0.1} D ₂ AsO ₄ proven by neutron diffraction. <i>Ferroelectrics</i> , 1999 , 223, 203-210	0.6	1
19	Influence of NH ₄ -Rb substitution on the phase transitions with different kinds of proton disorder in mixed [(NH ₄) _{1-x} Rb _x] ₃ H(SO ₄) ₂ crystals. <i>Ferroelectrics</i> , 1998 , 217, 285-295	0.6	22
18	Phase behaviour and quasi-one dimensionality of betaine arsenate/phosphate mixed crystals. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 4617-4629	1.8	8
17	Dielectric behavior of betaine arsenate/phosphate mixed crystals (BAxBP _{1-x}) in an electric bias field. <i>Ferroelectrics</i> , 1996 , 184, 281-284	0.6	2
16	Random fields versus random bond effects in betaine arsenate/phosphate mixed crystals. <i>Ferroelectrics</i> , 1996 , 176, 73-90	0.6	3
15	Investigations on dielectric and structural properties of ferroelectric betaine phosphite (BPI). <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 9305-9319	1.8	15
14	Phase diagrams and structural order in mixed crystals BAxBP _{1-x} for x > 0.80. <i>Ferroelectrics</i> , 1995 , 172, 175-180	0.6	1
13	Competing interactions and phase transitions in betaine arsenate-betaine phosphate (BAxBP _{1-x}). <i>Ferroelectrics</i> , 1994 , 157, 269-274	0.6	11
12	Sustainable Lithium-Ion Battery Separators Based on Poly(3-Hydroxybutyrate-Co-Hydroxyvalerate) Pristine and Composite Electrospun Membranes. <i>Energy Technology</i> , 2100761	3.5	1
11	Design and fabrication of printed human skin model equivalent circuit: A tool for testing biomedical electrodes without human trials. <i>Advanced Engineering Materials</i> ,	3.5	2
10	Poly(vinylidene fluoride-trifluoroethylene-chlorofluoroethylene): A New Binder for Conventional and Printable Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> ,	6.1	2
9	Reusable Nanocomposite Membranes for Highly Efficient Arsenite and Arsenate Dual Removal from Water. <i>Advanced Materials Interfaces</i> , 2101419	4.6	2
8	Tuning magnetic response and ionic conductivity of electrospun hybrid membranes for tissue regeneration strategies. <i>Polymers for Advanced Technologies</i> ,	3.2	1
7	Luminescent Poly(vinylidene fluoride)-Based Inks for Anticounterfeiting Applications. <i>Advanced Photonics Research</i> , 2100151	1.9	

6	Environmentally Friendly Conductive Screen-Printable Inks Based on N-Doped Graphene and Polyvinylpyrrolidone. <i>Advanced Engineering Materials</i> ,2101258	3.5	2
5	Direct-Ink-Writing of Electroactive Polymers for Sensing and Energy Storage Applications. <i>Macromolecular Materials and Engineering</i> ,2100372	3.9	1
4	Bio-based Piezo- and Thermo-Resistive Photo-Curable Sensing Materials from Acrylated Epoxidized Soybean Oil. <i>Macromolecular Materials and Engineering</i> ,2100934	3.9	0
3	Photocurable Printed Piezocapacitive Pressure Sensor Based on an Acrylic Resin Modified with Polyaniline and Lignin. <i>Advanced Materials Technologies</i> ,2101503	6.8	1
2	Multifunctional Touch Sensing and Antibacterial Polymer-Based Core-Shell Metallic Nanowire Composites for High Traffic Surfaces. <i>Advanced Materials Technologies</i> ,2101575	6.8	
1	Three-Dimensional Printing for Solid-State Batteries. <i>ACS Symposium Series</i> ,331-350	0.4	