

Pedro Martins

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121
papers

6,034
citations

34
h-index

76
g-index

126
ext. papers

7,021
ext. citations

5.8
avg, IF

6.29
L-index

#	Paper	IF	Citations
121	Electroactive phases of poly(vinylidene fluoride): Determination, processing and applications. <i>Progress in Polymer Science</i> , 2014 , 39, 683-706	29.6	1743
120	Electroactive poly(vinylidene fluoride)-based structures for advanced applications. <i>Nature Protocols</i> , 2018 , 13, 681-704	18.8	320
119	Advances in Magnetic Nanoparticles for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700845	10.1	277
118	Polymer-Based Magnetoelectric Materials. <i>Advanced Functional Materials</i> , 2013 , 23, 3371-3385	15.6	244
117	On the origin of the electroactive poly(vinylidene fluoride) β phase nucleation by ferrite nanoparticles via surface electrostatic interactions. <i>CrystEngComm</i> , 2012 , 14, 2807	3.3	198
116	Role of Nanoparticle Surface Charge on the Nucleation of the Electroactive β Poly(vinylidene fluoride) Nanocomposites for Sensor and Actuator Applications. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15790-15794	3.8	176
115	Nucleation of electroactive β 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
114	Dielectric and magnetic properties of ferrite/poly(vinylidene fluoride) nanocomposites. <i>Materials Chemistry and Physics</i> , 2012 , 131, 698-705	4.4	110
113	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
112	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
111	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
110	Proving the suitability of magnetoelectric stimuli for tissue engineering applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 140, 430-436	6	99
109	Tailored Magnetic and Magnetoelectric Responses of Polymer-Based Composites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15017-22	9.5	86
108	Polymer-based smart materials by printing technologies: Improving application and integration. <i>Additive Manufacturing</i> , 2018 , 21, 269-283	6.1	81
107	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
106	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
105	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

104	Development of magnetoelectric CoFe ₂ O ₄ /poly(vinylidene fluoride) microspheres. <i>RSC Advances</i> , 2015 , 5, 35852-35857	3.7	69
103	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
102	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
101	Silk fibroin-magnetic hybrid composite electrospun fibers for tissue engineering applications. <i>Composites Part B: Engineering</i> , 2018 , 141, 70-75	10	68
100	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
99	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
98	Magnetoelectric CoFe ₂ O ₄ /polyvinylidene fluoride electrospun nanofibres. <i>Nanoscale</i> , 2015 , 7, 8058-61	7.7	59
97	Energy harvesting device based on a metallic glass/PVDF magnetoelectric laminated composite. <i>Smart Materials and Structures</i> , 2015 , 24, 065024	3.4	57
96	Understanding nucleation of the electroactive β phase of poly(vinylidene fluoride) by nanostructures. <i>RSC Advances</i> , 2016 , 6, 113007-113015	3.7	57
95	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
94	Development of water-based printable piezoresistive sensors for large strain applications. <i>Composites Part B: Engineering</i> , 2017 , 112, 344-352	10	55
93	Metallic Glass/PVDF Magnetoelectric Laminates for Resonant Sensors and Actuators: A Review. <i>Sensors</i> , 2017 , 17,	3.8	45
92	Nucleation of the electroactive β phase, dielectric and magnetic response of poly(vinylidene fluoride) composites with Fe ₂ O ₃ nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2013 , 361, 93-99	3.9	45
91	Determination of the magnetostrictive response of nanoparticles via magnetoelectric measurements. <i>Nanoscale</i> , 2015 , 7, 9457-61	7.7	41
90	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
89	Cellulose-based magnetoelectric composites. <i>Nature Communications</i> , 2017 , 8, 38	17.4	39
88	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
87	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

86	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
85	Magnetolectric response on Terfenol-D/ P(VDF-TrFE) two-phase composites. <i>Composites Part B: Engineering</i> , 2017 , 120, 97-102	10	32
84	Development of electrospun photocatalytic TiO ₂ -polyamide-12 nanocomposites. <i>Materials Chemistry and Physics</i> , 2015 , 164, 91-97	4.4	32
83	Improved magnetodielectric coefficient on polymer based composites through enhanced indirect magnetolectric coupling. <i>Applied Physics Letters</i> , 2016 , 109, 112905	3.4	31
82	Hydrogel-based magnetolectric microenvironments for tissue stimulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 1041-1047	6	30
81	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
80	Electronic optimization for an energy harvesting system based on magnetolectric Metglas/poly(vinylidene fluoride)/Metglas composites. <i>Smart Materials and Structures</i> , 2016 , 25, 085028	3.4	30
79	Size effects on the magnetolectric response on PVDF/Vitrovac 4040 laminate composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 377, 29-33	2.8	29
78	Magnetic cellulose nanocrystal nanocomposites for the development of green functional materials. <i>Carbohydrate Polymers</i> , 2017 , 175, 425-432	10.3	29
77	Local probing of magnetolectric properties of PVDF/FeO electrospun nanofibers by piezoresponse force microscopy. <i>Nanotechnology</i> , 2017 , 28, 065707	3.4	28
76	Optimized anisotropic magnetolectric 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
75	All-printed multilayer materials with improved magnetolectric response. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5394-5400	7.1	25
74	Polymer-based actuators: back to the future. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15163-15182	3.6	25
73	Characterization of Metglas/poly(vinylidene fluoride)/Metglas magnetolectric laminates for AC/DC magnetic sensor applications. <i>Materials and Design</i> , 2016 , 92, 906-910	8.1	25
72	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
71	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4928-4934	8.9	24
70	Development of a contactless DC current sensor with high linearity and sensitivity based on the magnetolectric effect. <i>Smart Materials and Structures</i> , 2018 , 27, 065012	3.4	24
69	Low-field giant magneto-ionic response in polymer-based nanocomposites. <i>Nanoscale</i> , 2018 , 10, 15747-15754	15.754	24

68	Magnetoelectrics: Three Centuries of Research Heading towards the 4.0 Industrial Revolution. <i>Materials</i> , 2020 , 13,	3.5	23
67	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
66	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
65	Large linear anhysteretic magnetoelectric voltage coefficients in CoFe ₂ O ₄ /polyvinylidene fluoride 0B nanocomposites. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	21
64	Spray-printed magnetoelectric multifunctional composites. <i>Composites Part B: Engineering</i> , 2020 , 187, 107829	10	21
63	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
62	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
61	Magnetically Controlled Drug Release System through Magnetomechanical Actuation. <i>Advanced Healthcare Materials</i> , 2016 , 5, 3027-3034	10.1	19
60	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
59	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
58	High-temperature polymer based magnetoelectric nanocomposites. <i>European Polymer Journal</i> , 2015 , 64, 224-228	5.2	17
57	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
56	Polymer-based magnetoelectric materials: To be or not to be. <i>Applied Materials Today</i> , 2019 , 15, 558-561	6.6	16
55	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
54	Wide-Range Magnetoelectric Response on Hybrid Polymer Composites Based on Filler Type and Content. <i>Polymers</i> , 2017 , 9,	4.5	16
53	Novel hybrid multifunctional magnetoelectric porous composite films. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 396, 237-241	2.8	15
52	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
51	Transparent Magnetoelectric Materials for Advanced Invisible Electronic Applications. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900280	6.4	13

50	Reconfigurable 3D-printable magnets with improved maximum energy product. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 952-958	7.1	13
49	Improving Magnetolectric Contactless Sensing and Actuation through Anisotropic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19189-19196	3.8	12
48	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
47	Increasing X-ray to visible transduction performance of Gd ₂ O ₃ :Eu ³⁺ +PVDF composites by PPO/POPOP addition. <i>Composites Part B: Engineering</i> , 2016 , 91, 610-614	10	10
46	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
45	Concentrated solar energy used for sintering magnesium titanates for electronic applications. <i>Applied Surface Science</i> , 2018 , 438, 59-65	6.7	9
44	Nanoparticle dispersion and electroactive phase content in polyvinylidene fluoride/Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nanocomposites for magnetolectric applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6845-9	1.3	9
43	Magnetolectric Polymer-Based Nanocomposites with Magnetically Controlled Antimicrobial Activity. <i>ACS Applied Bio Materials</i> , 2021 , 4, 559-570	4.1	9
42	Magnetic materials: a journey from finding north to an exciting printed future. <i>Materials Horizons</i> , 2021 , 8, 2654-2684	14.4	9
41	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
40	Preparation of Magnetolectric Composites by Nucleation of the Electroactive β Phase of Poly(vinylidene fluoride) by NiZnFe ₂ O ₄ Nanoparticles. <i>Sensor Letters</i> , 2013 , 11, 110-114	0.9	8
39	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
38	Magnetic Proximity Sensor Based on Magnetolectric Composites and Printed Coils. <i>Materials</i> , 2020 , 13,	3.5	8
37	. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-57	2	8
36	Dielectric relaxation and ferromagnetic resonance in magnetolectric (Polyvinylidene-fluoride)/ferrite composites. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	7
35	Theoretical design of high-performance polymer-based magnetolectric of fibrillar structures. <i>Composites Science and Technology</i> , 2018 , 155, 126-136	8.6	7
34	Magnetolectric coupling in nanoscale 0-1 connectivity. <i>Nanoscale</i> , 2018 , 10, 17370-17377	7.7	6
33	Induced Magnetolectric 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

32	Overview on thermoactive materials, simulations and applications. <i>Journal of Materials Science</i> , 2020 , 55, 925-946	4.3	6
31	Optimized Magnetodielectric Coupling on High-Temperature Polymer-Based Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1821-1827	3.8	5
30	Magnetoelectric Composites for Bionics Applications 2017 , 171-195		4
29	Poly(vinylidene fluoride)-Based Magnetoelectric Polymer Nanocomposite Films 2017 , 87-113		4
28	Effect of polymer strengtheners on the local environment of biocompatible glass as probed by fluorescence. <i>Journal of Fluorescence</i> , 2008 , 18, 297-303	2.4	4
27	Printed multifunctional magnetically activated energy harvester with sensing capabilities. <i>Nano Energy</i> , 2022 , 94, 106885	17.1	4
26	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
25	Energy Harvesting 2017 , 197-224		3
24	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
23	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
22	Electroactive poly(vinylidene fluoride)-based materials: recent progress, challenges, and opportunities 2020 , 1-43		2
21	Energy Harvesting 2017 , 225-253		2
20	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
19	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
18	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
17	Magnetic materials for magnetoelectric coupling: An unexpected journey. <i>Handbook of Magnetic Materials</i> , 2020 , 29, 57-110	1.3	2
16	Theoretical optimization of magnetoelectric multilayer laminates. <i>Composites Science and Technology</i> , 2021 , 204, 108642	8.6	2
15	Design of Magnetostrictive Nanoparticles for Magnetoelectric Composites 2017 , 125-151		1

14	Scanning electron microscopy analysis of sol-gel derived biocompatible glass. <i>Journal of Physics: Conference Series</i> , 2008 , 126, 012076	0.3	1
13	Additive manufacturing of multifunctional materials 2021 , 25-42		1
12	A Facile Nanoimpregnation Method for Preparing Paper-Based Sensors and Actuators. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100476	6.8	1
11	Magnetic field into multifunctional materials: Magnetorheological, magnetostrictive, and magnetocaloric 2021 , 391-405		0
10	Greener Solvent-Based Processing of Magnetolectric Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 4122-4132	8.3	0
9	Carrageenan based printable magnetic nanocomposites for actuator applications. <i>Composites Science and Technology</i> , 2022 , 109485	8.6	0
8	Materials Selection, Processing, and Characterization Technologies 2017 , 13-43		
7	Polymer-Based Magnetolectric Composites: Polymer as a Binder 2017 , 65-85		
6	Types of Polymer-Based Magnetolectric Materials 2017 , 45-63		
5	Low-Dimensional Polymer-Based Magnetolectric Structures 2017 , 115-123		
4	Applications of Polymer-Based Magnetolectric Materials 2017 , 153-170		
3	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		
2	Bulk Magnetolectric Composites 2022 , 196-206		
1	Piezoelectric Polymers and Polymer Composites for Sensors and Actuators 2018 ,		