Pedro Costa

List of Publications by Citations

54 papers	1,437 citations	23 h-index	37 g-index
58 ext. papers	1,658 ext. citations	5.6 avg, IF	4.78 L-index

#	Paper	IF	Citations
54	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. *Composites Part B: Engineering*, **2014**, 61, 136-146	10	135
53	The effect of fibre concentration on the β to α phase transformation, degree of crystallinity and electrical properties of vapour grown carbon nanofibre/poly(vinylidene fluoride) composites. *Carbon*, **2009**, 47, 2590-2599	10.4	112
52	Low percolation transitions in carbon nanotube networks dispersed in a polymer matrix: dielectric properties, simulations and experiments. *Nanotechnology*, **2009**, 20, 035703	3.4	94
51	High-performance graphene-based carbon nanofiller/polymer composites for piezoresistive sensor applications. *Composites Science and Technology*, **2017**, 153, 241-252	8.6	66
50	Effect of the ceramic grain size and concentration on the dynamical mechanical and dielectric behavior of poly(vinilidene fluoride)/Pb(Zr0.53Ti0.47)O3 composites. *Applied Physics A: Materials Science and Processing*, **2009**, 96, 899-908	2.6	66
49	Electro-mechanical properties of triblock copolymer styrene‐butadiene‐styrene/carbon nanotube composites for large deformation sensor applications. *Sensors and Actuators A: Physical*, **2013**, 201, 458-467	3.9	65
48	Extruded thermoplastic elastomers styrene‐butadiene‐styrene/carbon nanotubes composites for strain sensor applications. *Composites Part B: Engineering*, **2014**, 57, 242-249	10	64
47	Mechanical, electrical and electro-mechanical properties of thermoplastic elastomer styrene‐butadiene‐styrene/multiwall carbon nanotubes composites. *Journal of Materials Science*, **2013**, 48, 1172-1179	4.3	60
46	Development of water-based printable piezoresistive sensors for large strain applications. *Composites Part B: Engineering*, **2017**, 112, 344-352	10	55
45	Mechanical vs. electrical hysteresis of carbon nanotube/styrene‐butadiene‐styrene composites and their influence in the electromechanical response. *Composites Science and Technology*, **2015**, 109, 1-5	8.6	51
44	Recent Progress on Piezoelectric, Pyroelectric, and Magnetoelectric Polymer-Based Energy-Harvesting Devices. *Energy Technology*, **2019**, 7, 1800852	3.5	50
43	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. *Composites Part B: Engineering*, **2014**, 67, 30-38	10	44
42	Green solvent approach for printable large deformation thermoplastic elastomer based piezoresistive sensors and their suitability for biomedical applications. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 2092-2103	2.6	41
41	Piezoresistive response of extruded polyaniline/(styrene-butadiene-styrene) polymer blends for force and deformation sensors. *Materials and Design*, **2018**, 141, 1-8	8.1	39
40	Extrusion of poly(vinylidene fluoride) filaments: effect of the processing conditions and conductive inner core on the electroactive phase content and mechanical properties. *Journal of Polymer Research*, **2011**, 18, 1653-1658	2.7	35
39	Development of high sensitive polyaniline based piezoresistive films by conventional and green chemistry approaches. *Sensors and Actuators A: Physical*, **2014**, 220, 13-21	3.9	34
38	Effect of butadiene/styrene ratio, block structure and carbon nanotube content on the mechanical and electrical properties of thermoplastic elastomers after UV ageing. *Polymer Testing*, **2015**, 42, 225-233	4.5	33

37	Piezoresistive polymer blends for electromechanical sensor applications. *Composites Science and Technology*, **2018**, 168, 353-362	8.6	32
36	Highly Sensitive Piezoresistive Graphene-Based Stretchable Composites for Sensing Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 46286-46295	9.5	29
35	Strong increase of the dielectric response of carbon nanotube/poly(vinylidene fluoride) composites induced by carbon nanotube type and pre-treatment. *Composites Part B: Engineering*, **2016**, 93, 310-316	10	27
34	Ionic-Liquid-Based Electroactive Polymer Composites for Muscle Tissue Engineering. *ACS Applied Polymer Materials*, **2019**, 1, 2649-2658	4.3	24
33	Piezoresistive performance of polymer-based materials as a function of the matrix and nanofiller content to walking detection application. *Composites Science and Technology*, **2019**, 181, 107678	8.6	24
32	Polymer Nanocomposite-Based Strain Sensors with Tailored Processability and Improved Device Integration. *ACS Applied Nano Materials*, **2018**, 1, 3015-3025	5.6	23
31	Cyclic temperature dependence of electrical conductivity in polyanilines as a function of the dopant and synthesis method. *Materials and Design*, **2017**, 114, 288-296	8.1	21
30	Optimized silk fibroin piezoresistive nanocomposites for pressure sensing applications based on natural polymers. *Nanoscale Advances*, **2019**, 1, 2284-2292	5.1	19
29	Piezoresistive response of carbon nanotubes-polyamides composites processed by extrusion. *Journal of Polymer Research*, **2013**, 20, 1	2.7	18
28	On the use of surfactants for improving nanofiller dispersion and piezoresistive response in stretchable polymer composites. *Journal of Materials Chemistry C*, **2018**, 6, 10580-10588	7.1	18
27	Water-Based Graphene Inks for All-Printed Temperature and Deformation Sensors. *ACS Applied Electronic Materials*, **2020**, 2, 2857-2867	4	15
26	Stimuli responsive UV cured polyurethane acrylated/carbon nanotube composites for piezoresistive sensing. *European Polymer Journal*, **2019**, 120, 109226	5.2	14
25	Electromechanical Properties of PVDF-Based Polymers Reinforced with Nanocarbonaceous Fillers for Pressure Sensing Applications. *Materials*, **2019**, 12,	3.5	14
24	Vineyard calcium sprays induce changes in grape berry skin, firmness, cell wall composition and expression of cell wall-related genes. *Plant Physiology and Biochemistry*, **2020**, 150, 49-55	5.4	13
23	Multifunctional electromechanical and thermoelectric polyaniline–poly(vinyl acetate) latex composites for wearable devices. *Journal of Materials Chemistry C*, **2018**, 6, 8502-8512	7.1	13
22	Stretchable scintillator composites for indirect X-ray detectors. *Composites Part B: Engineering*, **2018**, 133, 226-231	10	11
21	Poly(styrene–butene/ethylene–styrene): A New Polymer Binder for High-Performance Printable Lithium-Ion Battery Electrodes. *ACS Applied Energy Materials*, **2018**, 1, 3331-3341	6.1	9
20	Carbonaceous Filler Type and Content Dependence of the Physical-Chemical and Electromechanical Properties of Thermoplastic Elastomer Polymer Composites. *Materials*, **2019**, 12,	3.5	8

19	Triboelectric Energy Harvesting Response of Different Polymer-Based Materials. *Materials*, **2020**, 13,	3.5	7
18	3.9 Piezoelectric Energy Production **2018**, 380-415		5
17	All-Printed Piezoresistive Sensor Matrix with Organic Thin-Film Transistors as a Switch for Crosstalk Reduction. *ACS Applied Electronic Materials*, **2020**, 2, 1470-1477	4	5
16	Optimized Printed Cathode Electrodes for High Performance Batteries. *Energy Technology*, **2021**, 9, 2000805	3.5	5
15	Ceramic nanoparticles and carbon nanotubes reinforced thermoplastic materials for piezocapacitive sensing applications. *Composites Science and Technology*, **2019**, 183, 107804	8.6	4
14	Functional Piezoresistive Polymer-Composites Based on Polycarbonate and Polylactic Acid for Deformation Sensing Applications. *Macromolecular Materials and Engineering*, **2020**, 305, 2000379	3.9	4
13	Overview on lightweight, multifunctional materials **2021**, 1-24		4
12	Environmentally Friendly Graphene-Based Conductive Inks for Multitouch Capacitive Sensing Surfaces. *Advanced Materials Interfaces*, **2021**, 8, 2100578	4.6	4
11	Multifunctional wax based conductive and piezoresistive nanocomposites for sensing applications. *Composites Science and Technology*, **2021**, 213, 108892	8.6	4
10	Towards Green Smart Materials for Force and Strain Sensors: The Case of Polyaniline. *Key Engineering Materials*, **2015**, 644, 157-162	0.4	3
9	Polycarbonate based multifunctional self-sensing 2D and 3D printed structures for aeronautic applications. *Smart Materials and Structures*, **2021**, 30, 085032	3.4	3
8	Environmentally Friendly Conductive Screen-Printable Inks Based on N-Doped Graphene and Polyvinylpyrrolidone. *Advanced Engineering Materials*,2101258	3.5	2
7	Antimicrobial and Antibiofilm Properties of Fluorinated Polymers with Embedded Functionalized Nanodiamonds. *ACS Applied Polymer Materials*, **2020**, 2, 5014-5024	4.3	2
6	Strain analysis on Ti1 xAgx and AgTiNx electrodes deposited on polymer based sensors. *Thin Solid Films*, **2016**, 604, 55-62	2.2	1
5	High deformation multifunctional composites: materials, processes, and applications **2021**, 317-350		1
4	Photocurable Printed Piezocapacitive Pressure Sensor Based on an Acrylic Resin Modified with Polyaniline and Lignin. *Advanced Materials Technologies*,2101503	6.8	1
3	Bio-based Piezo- and Thermo-Resistive Photo-Curable Sensing Materials from Acrylated Epoxidized Soybean Oil. *Macromolecular Materials and Engineering*,2100934	3.9	0
2	Transparent Piezoelectric Polymer-Based Materials for Energy Harvesting and Multitouch Detection Devices. *ACS Applied Electronic Materials*, **2022**, 4, 287-296	4	0

List of Publications

1	Multifunctional Touch Sensing and Antibacterial Polymer-Based Core-Shell Metallic Nanowire Composites for High Traffic Surfaces. *Advanced Materials Technologies*,2101575	6.8