

VÃÄ-tor Mg Correia

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,928
citations

218381

26
h-index

253896

43
g-index

57
all docs

57
docs citations

57
times ranked

2281
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic piezoelectric stimulation enhances osteogenic differentiation of human adipose stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2172-2175.	2.1	148
2	Energy harvesting performance of piezoelectric electrospun polymer fibers and polymer/ceramic composites. <i>Sensors and Actuators A: Physical</i> , 2013, 196, 55-62.	2.0	138
3	Proving the suitability of magnetoelectric stimuli for tissue engineering applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 430-436.	2.5	126
4	Enhanced proliferation of pre-osteoblastic cells by dynamic piezoelectric stimulation. <i>RSC Advances</i> , 2012, 2, 11504.	1.7	106
5	Polymer-based smart materials by printing technologies: Improving application and integration. <i>Additive Manufacturing</i> , 2018, 21, 269-283.	1.7	106
6	Bioinspired Three-Dimensional Magnetoactive Scaffolds for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45265-45275.	4.0	101
7	Energy harvesting performance of BaTiO ₃ /poly(vinylidene fluoride-trifluoroethylene) spin coated nanocomposites. <i>Composites Part B: Engineering</i> , 2015, 72, 130-136.	5.9	96
8	Development of inkjet printed strain sensors. <i>Smart Materials and Structures</i> , 2013, 22, 105028.	1.8	81
9	Development of water-based printable piezoresistive sensors for large strain applications. <i>Composites Part B: Engineering</i> , 2017, 112, 344-352.	5.9	70
10	Design and fabrication of multilayer inkjet-printed passive components for printed electronics circuit development. <i>Journal of Manufacturing Processes</i> , 2018, 31, 364-371.	2.8	58
11	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.	2.4	50
12	Polymer-based actuators: back to the future. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15163-15182.	1.3	41
13	Fiber average size and distribution dependence on the electrospinning parameters of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Over Science and Processing, 2012, 109, 685-691.	1.1	39
14	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.	1.8	39
15	Magnetically Activated Electroactive Microenvironments for Skeletal Muscle Tissue Regeneration. <i>ACS Applied Bio Materials</i> , 2020, 3, 4239-4252.	2.3	39
16	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.	1.4	38
17	Optimization of piezoelectric ultrasound emitter transducers for underwater communications. <i>Sensors and Actuators A: Physical</i> , 2012, 184, 141-148.	2.0	36
18	Fabrication and Characterization of High-Performance Polymer-Based Magnetoelectric DC Magnetic Field Sensors Devices. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 4928-4934.	5.2	36

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19	Characterization of Metglas/poly(vinylidene fluoride)/Metglas magnetoelectric laminates for AC/DC magnetic sensor applications. <i>Materials and Design</i> , 2016, 92, 906-910.	3.3	35
20	All-printed multilayer materials with improved magnetoelectric response. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5394-5400.	2.7	34
21	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.	4.0	32
22	Polymer Nanocomposite-Based Strain Sensors with Tailored Processability and Improved Device Integration. <i>ACS Applied Nano Materials</i> , 2018, 1, 3015-3025.	2.4	32
23	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} for AC/DC magnetic field sensing. <i>Smart Materials and Structures</i> , 2016, 25, 055050.	1.6	31
24	Printed Wheatstone bridge with embedded polymer based piezoresistive sensors for strain sensing applications. <i>Additive Manufacturing</i> , 2018, 20, 119-125.	1.7	31
25	Piezoresistive silicon thin film sensor array for biomedical applications. <i>Thin Solid Films</i> , 2011, 519, 4574-4577.	0.8	30
26	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.	1.8	30
27	Physically Active Bioreactors for Tissue Engineering Applications. <i>Advanced Biology</i> , 2020, 4, e2000125.	3.0	29
28	Silk fibroin magnetoactive nanocomposite films and membranes for dynamic bone tissue engineering strategies. <i>Materialia</i> , 2020, 12, 100709.	1.3	24
29	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.	2.4	23
30	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.	1.0	22
31	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.	1.1	21
32	Magnetic Bioreactor for Magneto-, Mechano- and Electroactive Tissue Engineering Strategies. <i>Sensors</i> , 2020, 20, 3340.	2.1	21
33	Magnetic Proximity Sensor Based on Magnetoelectric Composites and Printed Coils. <i>Materials</i> , 2020, 13, 1729.	1.3	17
34	Triboelectric Energy Harvesting Response of Different Polymer-Based Materials. <i>Materials</i> , 2020, 13, 4980.	1.3	16
35	Environmentally Friendly Graphene-Based Conductive Inks for Multitouch Capacitive Sensing Surfaces. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100578.	1.9	16
36	Stretchable scintillator composites for indirect X-ray detectors. <i>Composites Part B: Engineering</i> , 2018, 133, 226-231.	5.9	14

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37	Design and validation of a biomechanical bioreactor for cartilage tissue culture. Biomechanics and Modeling in Mechanobiology, 2016, 15, 471-478.	1.4	13
38	Comparative finite element analyses of piezoelectric ceramics and polymers at high frequency for underwater wireless communications. Procedia Engineering, 2010, 5, 99-102.	1.2	12
39	Increasing X-ray to visible transduction performance of Gd2O3:Eu3+PVDF composites by PPO/POPOP addition. Composites Part B: Engineering, 2016, 91, 610-614.	5.9	11
40	Piezoresistive sensors for force mapping of hip-prostheses. Sensors and Actuators A: Physical, 2013, 195, 133-138.	2.0	10
41	Mechanical fatigue performance of PCLâ€chondroprogenitor constructs after cell culture under bioreactor mechanical stimulus. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 330-338.	1.6	9
42	All-Printed Piezoresistive Sensor Matrix with Organic Thin-Film Transistors as a Switch for Crosstalk Reduction. ACS Applied Electronic Materials, 2020, 2, 1470-1477.	2.0	9
43	Touchscreen based on acoustic pulse recognition with piezoelectric polymer sensors. , 2010, , .		8
44	Marked Object Recognition Multitouch Screen Printed Touchpad for Interactive Applications. Sensors, 2017, 17, 2786.	2.1	8
45	Functional Piezoresistive Polymerâ€Composites Based on Polycarbonate and Polylactic Acid for Deformation Sensing Applications. Macromolecular Materials and Engineering, 2020, 305, 2000379.	1.7	8
46	Electroactive poly(vinylidene fluoride)-based materials: recent progress, challenges, and opportunities. , 2020, , 1-43.		7
47	Allâ€Printed Smart Label with Integrated Humidity Sensors and Power Supply. Advanced Engineering Materials, 2021, 23, 2001229.	1.6	7
48	Sigma-delta A/D converter for CMOS image sensors. , 2009, , .		5
49	Water based scintillator ink for printed X-ray radiation detectors. Polymer Testing, 2018, 69, 26-31.	2.3	5
50	Electroactive functional microenvironments from bioactive polymers: A new strategy to address cancer. , 2022, 137, 212849.		4
51	Design and Fabrication of Printed Human Skin Model Equivalent Circuit: A Tool for Testing Biomedical Electrodes without Human Trials. Advanced Engineering Materials, 2022, 24, .	1.6	3
52	Piezoelectric micropump for lab-on-a-chip applications. , 2009, , .		2
53	Additive manufacturing of multifunctional materials. , 2021, , 25-42.		1
54	Dilatometer for characterization of thermal expansion of ceramic samples. , 2009, , .		0

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55	Design and Development of a Prototype Electrotherapy Device. Open Biomedical Engineering Journal, 2013, 7, 100-108.	0.7	0
56	Piezoelectric Polymers and Polymer Composites for Sensors and Actuators. , 2018, , .		0