# VÃÂ-tor Mg Correia

List of Publications by Year
in descending order



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|---|---|---|---|
| 56 papers | 1,928 citations | 218677 26 h-index | 254184 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. Journal of Biomedical Materials Research - Part A, 2015, 103, 2172-2175. | 4.0 | 148 |
| 2 | Energy harvesting performance of piezoelectric electrospun polymer fibers and polymer/ceramic composites. Sensors and Actuators A: Physical, 2013, 196, 55-62. | 4.1 | 138 |
| 3 | Proving the suitability of magnetoelectric stimuli for tissue engineering applications. Colloids and Surfaces B: Biointerfaces, 2016, 140, 430-436. | 5.0 | 126 |
| 4 | Enhanced proliferation of pre-osteoblastic cells by dynamic piezoelectric stimulation. RSC Advances, 2012, 2, 11504. | 3.6 | 106 |
| 5 | Polymer-based smart materials by printing technologies: Improving application and integration. Additive Manufacturing, 2018, 21, 269-283. | 3.0 | 106 |
| 6 | Bioinspired Three-Dimensional Magnetoactive Scaffolds for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2019, 11, 45265-45275. | 8.0 | 101 |
| 7 | Energy harvesting performance of BaTiO3/poly(vinylidene fluorideâ€“trifluoroethylene) spin coated nanocomposites. Composites Part B: Engineering, 2015, 72, 130-136. | 12.0 | 96 |
| 8 | Development of inkjet printed strain sensors. Smart Materials and Structures, 2013, 22, 105028. | 3.5 | 81 |
| 9 | Development of water-based printable piezoresistive sensors for large strain applications. Composites Part B: Engineering, 2017, 112, 344-352. | 12.0 | 70 |
| 10 | Design and fabrication of multilayer inkjet-printed passive components for printed electronics circuit development. Journal of Manufacturing Processes, 2018, 31, 364-371. | 5.9 | 58 |
| 11 | 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. | 2.1 | 50 |
| 12 | Polymer-based actuators: back to the future. Physical Chemistry Chemical Physics, 2020, 22, 15163-15182. | 2.8 | 41 |
| 13 | Fiber average size and distribution dependence on the electrospinning parameters of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Ove<br>Science and Processing, 2012, 109, 685-691. | 2.3 | 39 |
| 14 | Electronic optimization for an energy harvesting system based on magnetoelectric Metglas/poly(vinylidene fluoride)/Metglas composites. Smart Materials and Structures, 2016, 25, 085028. | 3.5 | 39 |
| 15 | Magnetically Activated Electroactive Microenvironments for Skeletal Muscle Tissue Regeneration. ACS Applied Bio Materials, 2020, 3, 4239-4252. | 4.6 | 39 |
| 16 | All-inkjet-printed low-pass filters with adjustable cutoff frequency consisting of resistors, inductors and transistors for sensor applications. Organic Electronics, 2016, 38, 205-212. | 2.6 | 38 |
| 17 | Optimization of piezoelectric ultrasound emitter transducers for underwater communications. Sensors and Actuators A: Physical, 2012, 184, 141-148. | 4.1 | 36 |
| 18 | Fabrication and Characterization of High-Performance Polymer-Based Magnetoelectric DC Magnetic Field Sensors Devices. IEEE Transactions on Industrial Electronics, 2017, 64, 4928-4934. | 7.9 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Characterization of Metglas/poly(vinylidene fluoride)/Metglas magnetoelectric laminates for AC/DC magnetic sensor applications. Materials and Design, 2016, 92, 906-910. | 7.0 | 35 |
| 20 | All-printed multilayer materials with improved magnetoelectric response. Journal of Materials Chemistry C, 2019, 7, 5394-5400. | 5.5 | 34 |
| 21 | Indirect X-ray Detectors Based on Inkjet-Printed Photodetectors with a Screen-Printed Scintillator Layer. ACS Applied Materials & Interfaces, 2018, 10, 12904-12912. | 8.0 | 32 |
| 22 | Polymer Nanocomposite-Based Strain Sensors with Tailored Processability and Improved Device Integration. ACS Applied Nano Materials, 2018, 1, 3015-3025. | 5.0 | 32 |
| 23 | Optimized anisotropic magnetoelectric response of Fe<sub>61.6</sub>Co<sub>16.4</sub>Si<sub>10.8</sub>B<sub>11.2</sub>/PVDF/Fe<sub>61.6</sub>Co<sub>16.4</sub>Si<sub for AC/DC magnetic field sensing. Smart Materials and Structures, 2016, 25, 055050. | 3.3 | |
| 24 | Printed Wheatstone bridge with embedded polymer based piezoresistive sensors for strain sensing applications. Additive Manufacturing, 2018, 20, 119-125. | 3.0 | 31 |
| 25 | Piezoresistive silicon thin film sensor array for biomedical applications. Thin Solid Films, 2011, 519, 4574-4577. | 1.8 | 30 |
| 26 | Development of a contactless DC current sensor with high linearity and sensitivity based on the magnetoelectric effect. Smart Materials and Structures, 2018, 27, 065012. | 3.5 | 30 |
| 27 | Physically Active Bioreactors for Tissue Engineering Applications. Advanced Biology, 2020, 4, e2000125. | 3.0 | 29 |
| 28 | Silk fibroin magnetoactive nanocomposite films and membranes for dynamic bone tissue engineering strategies. Materialia, 2020, 12, 100709. | 2.7 | 24 |
| 29 | Piezoresistive Polymer-Based Materials for Real-Time Assessment of the Stump/Socket Interface Pressure in Lower Limb Amputees. IEEE Sensors Journal, 2017, 17, 2182-2190. | 4.7 | 23 |
| 30 | Gd2O3:Eu Nanoparticle-Based Poly(vinylidene fluoride) Composites for Indirect X-ray Detection. Journal of Electronic Materials, 2015, 44, 129-135. | 2.2 | 22 |
| 31 | Gd2O3:Eu3+/PPO/POPOP/PS composites for digital imaging radiation detectors. Applied Physics A: Materials Science and Processing, 2015, 121, 581-587. | 2.3 | 21 |
| 32 | Magnetic Bioreactor for Magneto-, Mechano- and Electroactive Tissue Engineering Strategies. Sensors, 2020, 20, 3340. | 3.8 | 21 |
| 33 | Magnetic Proximity Sensor Based on Magnetoelectric Composites and Printed Coils. Materials, 2020, 13, 1729. | 2.9 | 17 |
| 34 | Triboelectric Energy Harvesting Response of Different Polymer-Based Materials. Materials, 2020, 13, 4980. | 2.9 | 16 |
| 35 | Environmentally Friendly Grapheneâ€Based Conductive Inks for Multitouch Capacitive Sensing Surfaces. Advanced Materials Interfaces, 2021, 8, 2100578. | 3.7 | 16 |
| 36 | Stretchable scintillator composites for indirect X-ray detectors. Composites Part B: Engineering, 2018, 133, 226-231. | 12.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Design and validation of a biomechanical bioreactor for cartilage tissue culture. Biomechanics and Modeling in Mechanobiology, 2016, 15, 471-478. | 2.8 | 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. | 12.0 | 11 |
| 40 | Piezoresistive sensors for force mapping of hip-prostheses. Sensors and Actuators A: Physical, 2013, 195, 133-138. | 4.1 | 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. | 3.4 | 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. | 4.3 | 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. | 3.8 | 8 |
| 45 | Functional Piezoresistive Polymerâ€Composites Based on Polycarbonate and Polylactic Acid for Deformation Sensing Applications. Macromolecular Materials and Engineering, 2020, 305, 2000379. | 3.6 | 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. | 3.5 | 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. | 4.8 | 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, . | 3.5 | 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 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Design and Development of a Prototype Electrotherapy Device. Open Biomedical Engineering Journal, 2013, 7, 100-108. | 0.5 | 0 |
| 56 | Piezoelectric Polymers and Polymer Composites for Sensors and Actuators. , 2018, , . | | 0 |