Marco P Soares Dos Santos

List of Publications by Year
in descending order

27 papers	740 citations	623734 14 h-index	610901 24 g-index
27 all docs	27 docs citations	27 times ranked	683 citing authors

#	Article	IF	Citations
1	Multiscale Sensing of Bone-Implant Loosening for Multifunctional Smart Bone Implants: Using Capacitive Technologies for Precision Controllability. Sensors, 2022, 22, 2531.	3.8	8
2	Instrumented electromagnetic generator: Optimized performance by automatic self-adaptation of the generator structure. Mechanical Systems and Signal Processing, 2022, 171, 108898.	8.0	13
3	Towards Self-Adaptability of Instrumented Electromagnetic Energy Harvesters. Machines, 2022, 10, 414.	2.2	2
4	Towards an effective sensing technology to monitor micro-scale interface loosening of bioelectronic implants. Scientific Reports, 2021, 11, 3449.	3.3	18
5	Hybrid Triboelectric-Electromagnetic Nanogenerators for Mechanical Energy Harvesting: A Review. Nano-Micro Letters, 2021, 13, 199.	27.0	59
6	Capacitive interdigitated system of high osteoinductive/conductive performance for personalized acting-sensing implants. Npj Regenerative Medicine, 2021, 6, 80.	5.2	15
7	Electromagnetic energy harvesting using magnetic levitation architectures: A review. Applied Energy, 2020, 260, 114191.	10.1	132
8	Piezoelectricity in Self-Assembled Peptides: A New Way towards Electricity Generation at Nanoscale. , 2020, , .		2
9	Altering the Course of Technologies to Monitor Loosening States of Endoprosthetic Implants. Sensors, 2020, 20, 104.	3.8	14
10	Natural and Eco-Friendly Materials for Triboelectric Energy Harvesting. Nano-Micro Letters, 2020, 12, 42.	27.0	76
11	Novel magnetic stimulation methodology for low-current implantable medical devices. Medical Engineering and Physics, 2019, 73, 77-84.	1.7	9
12	Predictions of Birmingham hip resurfacing implant offset - In vitro and numerical models. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 352-363.	1.6	4
13	Capacitive technologies for highly controlled and personalized electrical stimulation by implantable biomedical systems. Scientific Reports, 2019, 9, 5001.	3.3	26
14	Graphene-based materials and structures for energy harvesting with fluids â€“ A review. Materials Today, 2018, 21, 1019-1041.	14.2	81
15	New cosurface capacitive stimulators for the development of active osseointegrative implantable devices. Scientific Reports, 2016, 6, 30231.	3.3	28
16	Magnetic levitation-based electromagnetic energy harvesting: a semi-analytical non-linear model for energy transduction. Scientific Reports, 2016, 6, 18579.	3.3	79
17	Active orthopaedic implants: Towards optimality. Journal of the Franklin Institute, 2015, 352, 813-834.	3.4	22
18	Instrumented knee joint implants: innovations and promising concepts. Expert Review of Medical Devices, 2015, 12, 571-584.	2.8	21

#	Article	IF	Citations
19	Instrumented hip joint replacements, femoral replacements and femoral fracture stabilizers. Expert Review of Medical Devices, 2014, 11, 617-635.	2.8	21
20	Novel intelligent real-time position tracking system using FPGA and fuzzy logic. ISA Transactions, 2014, 53, 402-414.	5.7	31
21	Instrumented hip implants: Electric supply systems. Journal of Biomechanics, 2013, 46, 2561-2571.	2.1	33
22	Power management architecture for smart hip prostheses comprising multiple energy harvesting systems. Sensors and Actuators A: Physical, 2013, 202, 183-192.	4.1	21
23	Multi-source Harvesting Systems for Electric Energy Generation on Smart Hip Prostheses. Communications in Computer and Information Science, 2013, , 80-96.	0.5	5
24	Nonlinear Modeling of Vibrational Energy Harvesters for Smart Prostheses. Procedia Engineering, 2012, 47, 1089-1092.	1.2	5
25	Multi-purpose and Multi-source Energy Management System for Biomedical Implants. Procedia Engineering, 2012, 47, 722-725.	1.2	8
26	Improvement on control performance using FPGAs over software-based platforms. , 2012, , .		1
27	Multifunctional Smart Bone Implants: Fiction or Future?â€"A New Perspective. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	6