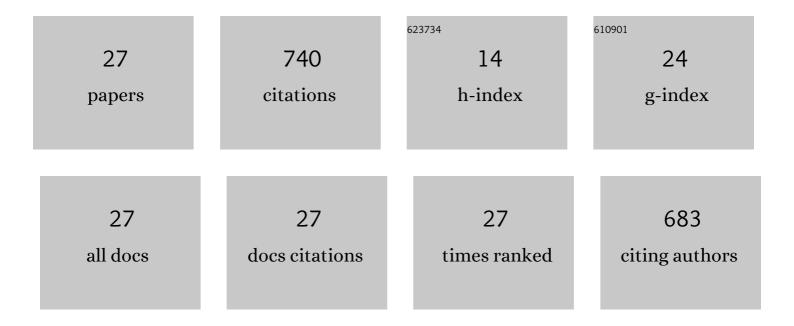
Marco P Soares Dos Santos

List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Electromagnetic energy harvesting using magnetic levitation architectures: A review. Applied Energy, 2020, 260, 114191. | 10.1 | 132 |
| 2 | Graphene-based materials and structures for energy harvesting with fluids – A review. Materials Today, 2018, 21, 1019-1041. | 14.2 | 81 |
| 3 | Magnetic levitation-based electromagnetic energy harvesting: a semi-analytical non-linear model for energy transduction. Scientific Reports, 2016, 6, 18579. | 3.3 | 79 |
| 4 | Natural and Eco-Friendly Materials for Triboelectric Energy Harvesting. Nano-Micro Letters, 2020, 12, 42. | 27.0 | 76 |
| 5 | Hybrid Triboelectric-Electromagnetic Nanogenerators for Mechanical Energy Harvesting: A Review. Nano-Micro Letters, 2021, 13, 199. | 27.0 | 59 |
| 6 | Instrumented hip implants: Electric supply systems. Journal of Biomechanics, 2013, 46, 2561-2571. | 2.1 | 33 |
| 7 | Novel intelligent real-time position tracking system using FPGA and fuzzy logic. ISA Transactions, 2014, 53, 402-414. | 5.7 | 31 |
| 8 | New cosurface capacitive stimulators for the development of active osseointegrative implantable devices. Scientific Reports, 2016, 6, 30231. | 3.3 | 28 |
| 9 | Capacitive technologies for highly controlled and personalized electrical stimulation by implantable biomedical systems. Scientific Reports, 2019, 9, 5001. | 3.3 | 26 |
| 10 | Active orthopaedic implants: Towards optimality. Journal of the Franklin Institute, 2015, 352, 813-834. | 3.4 | 22 |
| 11 | Power management architecture for smart hip prostheses comprising multiple energy harvesting systems. Sensors and Actuators A: Physical, 2013, 202, 183-192. | 4.1 | 21 |
| 12 | Instrumented hip joint replacements, femoral replacements and femoral fracture stabilizers. Expert Review of Medical Devices, 2014, 11, 617-635. | 2.8 | 21 |
| 13 | Instrumented knee joint implants: innovations and promising concepts. Expert Review of Medical Devices, 2015, 12, 571-584. | 2.8 | 21 |
| 14 | Towards an effective sensing technology to monitor micro-scale interface loosening of bioelectronic implants. Scientific Reports, 2021, 11, 3449. | 3.3 | 18 |
| 15 | Capacitive interdigitated system of high osteoinductive/conductive performance for personalized acting-sensing implants. Npj Regenerative Medicine, 2021, 6, 80. | 5.2 | 15 |
| 16 | Altering the Course of Technologies to Monitor Loosening States of Endoprosthetic Implants. Sensors, 2020, 20, 104. | 3.8 | 14 |
| 17 | Instrumented electromagnetic generator: Optimized performance by automatic self-adaptation of the generator structure. Mechanical Systems and Signal Processing, 2022, 171, 108898. | 8.0 | 13 |
| 18 | Novel magnetic stimulation methodology for low-current implantable medical devices. Medical Engineering and Physics, 2019, 73, 77-84. | 1.7 | 9 |

| # | Article | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Multi-purpose and Multi-source Energy Management System for Biomedical Implants. Procedia Engineering, 2012, 47, 722-725. | 1.2 | 8 |
| 20 | Multiscale Sensing of Bone-Implant Loosening for Multifunctional Smart Bone Implants: Using Capacitive Technologies for Precision Controllability. Sensors, 2022, 22, 2531. | 3.8 | 8 |
| 21 | Multifunctional Smart Bone Implants: Fiction or Future?—A New Perspective. Frontiers in Bioengineering and Biotechnology, 0, 10, . | 4.1 | 6 |
| 22 | Nonlinear Modeling of Vibrational Energy Harvesters for Smart Prostheses. Procedia Engineering, 2012, 47, 1089-1092. | 1.2 | 5 |
| 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 | 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 |
| 25 | Piezoelectricity in Self-Assembled Peptides: A New Way towards Electricity Generation at Nanoscale. , 2020, , . | | 2 |
| 26 | Towards Self-Adaptability of Instrumented Electromagnetic Energy Harvesters. Machines, 2022, 10, 414. | 2.2 | 2 |
| 27 | Improvement on control performance using FPGAs over software-based platforms. , 2012, , . | | 1 |