LuÃs A Rocha

List of Publications by Year
in descending order

34 papers	465 citations	687363 13 h-index	713466 21 g-index
34 all docs	34 docs citations	34 times ranked	865 citing authors

#	Article	IF	Citations
1	αvβ3 and α5β1 integrin-specific ligands: From tumor angiogenesis inhibitors to vascularization promoters in regenerative medicine?. Biotechnology Advances, 2018, 36, 208-227.	11.7	51
2	Postural Stability Analysis with Inertial Measurement Units in Alzheimer's Disease. Dementia and Geriatric Cognitive Disorders Extra, 2014, 4, 22-30.	1.3	37
3	Application of Machine Learning in Postural Control Kinematics for the Diagnosis of Alzheimer's Disease. Computational Intelligence and Neuroscience, 2016, 2016, 1-15.	1.7	37
4	The Role of Biomaterials as Angiogenic Modulators of Spinal Cord Injury: Mimetics of the Spinal Cord, Cell and Angiogenic Factor Delivery Agents. Frontiers in Pharmacology, 2018, 9, 164.	3.5	34
5	Medical device specificities: opportunities for a dedicated product development methodology. Expert Review of Medical Devices, 2012, 9, 299-311.	2.8	32
6	Inkjet Printed Pressure Sensing Platform for Postural Imbalance Monitoring. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2813-2820.	4.7	29
7	The effect of levodopa on postural stability evaluated by wearable inertial measurement units for idiopathic and vascular Parkinson's disease. Gait and Posture, 2015, 41, 459-464.	1.4	23
8	Compensatory Postural Adjustments in an Oculus Virtual Reality Environment and the Risk of Falling in Alzheimer's Disease. Dementia and Geriatric Cognitive Disorders Extra, 2016, 6, 252-267.	1.3	23
9	Pull-in-based μg-resolution accelerometer: Characterization and noise analysis. Sensors and Actuators A: Physical, 2011, 172, 47-53.	4.1	20
10	Compensatory postural adjustments in Parkinson's disease assessed via a virtual reality environment. Behavioural Brain Research, 2016, 296, 384-392.	2.2	20
11	Cell and Tissue Instructive Materials for Central Nervous System Repair. Advanced Functional Materials, 2020, 30, 1909083.	14.9	20
12	Role of the Visual and Auditory Systems in Postural Stability in Alzheimer's Disease. Journal of Alzheimer's Disease, 2015, 46, 441-449.	2.6	19
13	An Enhanced Reservation-Based MAC Protocol for IEEE 802.15.4 Networks. Sensors, 2011, 11, 3852-3873.	3.8	16
14	In vitro Evaluation of ASCs and HUVECs Co-cultures in 3D Biodegradable Hydrogels on Neurite Outgrowth and Vascular Organization. Frontiers in Cell and Developmental Biology, 2020, 8, 489.	3.7	15
15	Modeling of the medical device development process. Expert Review of Medical Devices, 2012, 9, 537-543.	2.8	12
16	Design of a Time-Based Micro-g Accelerometer. IEEE Sensors Journal, 2011, 11, 1677-1683.	4.7	11
17	Implantable Flexible Pressure Measurement System Based on Inductive Coupling. IEEE Transactions on Biomedical Engineering, 2015, 62, 680-687.	4.2	11
18	Mechanical properties of stent–graft materials. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2012, 226, 330-341.	1.1	10

#	Article	IF	Citations
19	Levetiracetam treatment leads to functional recovery after thoracic or cervical injuries of the spinal cord. Npj Regenerative Medicine, 2021, 6, 11.	5.2	10
20	Improving capacitance/damping ratio in a capacitive MEMS transducer. Journal of Micromechanics and Microengineering, 2014, 24, 015008.	2.6	7
21	Digital Platform for Wafer-Level MEMS Testing and Characterization Using Electrical Response. Sensors, 2016, 16, 1553.	3.8	7
22	Piezo-resistive behaviour at high strain levels of PEDOT:PSS printed on a flexible polymeric substrate by a novel surface treatment. Journal of Materials Science: Materials in Electronics, 2017, 28, 2563-2573.	2.2	7
23	Full-Gap Positioning of Parallel-Plate Electrostatic MEMS Using On-off Control. , 2007, , .		4
24	Body Attenuation and Path Loss Exponent Estimation for RSS-Based Positioning in WSN. Wireless Personal Communications, 2017, 94, 835-857.	2.7	3
25	Squeeze-film damper design with air channels: Experimental verification. Procedia Engineering, 2011, 25, 47-50.	1.2	2
26	Analysis of postural kinetics data using Artificial Neural Networks in Alzheimer's Disease. , 2014, , .		2
27	Characterization of a pull-in based <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="htt. Procedia Engineering,	1.2	1
28	Experimental Verification of Rarefied Gas Squeezed-Film Damping Models Used in MEMS. , 2006, , .		1
29	A Self-Tunable Dynamic Vibration Absorber for Tremor Suppression. , 2013, , .		1
30	Closed-loop Operated Time-Based Accelerometer. Procedia Engineering, 2012, 47, 398-401.	1.2	0
31	Evolution of the Cost-Effectiveness of Endovascular and Open Surgical Repair of Abdominal Aortic Aneurysms. Journal of Medical Devices, Transactions of the ASME, 2012, 6, .	0.7	0
32	Novel magnetic readout for hybrid spintronic MEMS devices. , 2017, , .		0
33	On-Off Control for Full-Gap Positioning of Parallel-Plate Electrostatic MEMS. , 2006, , .		0
34	Development of Medical Devices: Advantages of a Methodic Approach. IFMBE Proceedings, 2011, , 1144-1147.	0.3	0