Hercules Neves

List of Publications by Year
in descending order

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26 papers	1,374 citations	623734 14 h-index	642732 23 g-index
26 all docs	26 docs citations	26 times ranked	1579 citing authors

#	Article	IF	Citations
1	Large-scale recording of thalamocortical circuits: in vivo electrophysiology with the two-dimensional electronic depth control silicon probe. Journal of Neurophysiology, 2016, 116, 2312-2330.	1.8	33
2	In vivo validation of the electronic depth control probes. Biomedizinische Technik, 2014, 59, 283-9.	0.8	8
3	Neural probes â€“ microsystems to interface with the brain. Biomedizinische Technik, 2014, 59, 269-71.	0.8	2
4	Influence of bio-coatings on the recording performance of neural electrodes. Biomedizinische Technik, 2014, 59, 315-22.	0.8	2
5	Surface modification of recording electrodes. Polimeros, 2013, 23, 712-717.	0.7	0
6	CMOS-Based High-Density Silicon Microprobe Arrays for Electronic Depth Control in Intracortical Neural Recordingâ€“Characterization and Application. Journal of Microelectromechanical Systems, 2012, 21, 1426-1435.	2.5	41
7	Development and fabrication of a novel photopatternable electric responsive Pluronic hydrogel for MEMS applications. Sensors and Actuators A: Physical, 2012, 186, 184-190.	4.1	19
8	Micropatterning and dynamic swelling of photo-crosslinkable electroactive Pluronic hydrogel. Procedia Engineering, 2011, 25, 856-859.	1.2	0
9	High Strength, Polymer Microneedles For Transdermal Drug Delivery. Procedia Engineering, 2011, 25, 1377-1380.	1.2	7
10	CMOS-Based High-Density Silicon Microprobe Arrays for Electronic Depth Control in Intracortical Neural Recording. Journal of Microelectromechanical Systems, 2011, 20, 1439-1448.	2.5	67
11	High channel count electrode system to investigate thalamocortical interactions. Procedia Computer Science, 2011, 7, 178-179.	2.0	2
12	Two-Dimensional Multi-Channel Neural Probes With Electronic Depth Control. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 403-412.	4.0	51
13	A floating 3D silicon microprobe array for neural drug delivery compatible with electrical recording. Journal of Micromechanics and Microengineering, 2011, 21, 125001.	2.6	37
14	Control and data acquisition software for high-density CMOS-based microprobe arrays implementing electronic depth control. Biomedizinische Technik, 2010, 55, 183-191.	0.8	23
15	A water-tight packaging of MEMS electrostatic actuators for biomedical applications. Microsystem Technologies, 2010, 16, 2109-2113.	2.0	18
16	Scaling the Suspended-Gate FET: Impact of Dielectric Charging and Roughness. IEEE Transactions on Electron Devices, 2010, 57, 804-813.	3.0	12
17	Pseudo-Two-Dimensional Model for Double-Gate Tunnel FETs Considering the Junctions Depletion Regions. IEEE Transactions on Electron Devices, 2010, 57, 827-834.	3.0	223
18	Short and long term biocompatibility of NeuroProbes silicon probes. Journal of Neuroscience Methods, 2010, 189, 216-229.	2.5	55

#	Article	IF	Citations
19	Low voltage electrostatic inchworm actuators in aqueous environments. Procedia Chemistry, 2009, 1, 686-689.	0.7	3
20	A Low-Voltage Large-Displacement Large-Force Inchworm Actuator. Journal of Microelectromechanical Systems, 2008, 17, 1294-1301.	2.5	31
21	Microelectromechanical systems in urology. Urology, 2003, 61, 883-887.	1.0	10
22	Precision Attachment of Individual F1-ATPase Biomolecular Motors on Nanofabricated Substrates. Nano Letters, 2001, 1, 42-44.	9.1	45
23	Engineering Issues in the Fabrication of a Hybrid Nano-Propeller System Powered by F 1 -ATPase. Biomedical Microdevices, 2001, 3, 71-73.	2.8	10
24	Powering an Inorganic Nanodevice with a Biomolecular Motor. , 2000, 290, 1555-1558.		578
25	Copper-encapsulated silicon micromachined structures. Journal of Microelectromechanical Systems, 2000, 9, 281-287.	2.5	23
26	Density measurements in exploding wire-initiated plasmas using tungsten wires. Physics of Plasmas, 1999, 6, 4272-4283.	1.9	74