

# 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	Powering an Inorganic Nanodevice with a Biomolecular Motor. , 2000, 290, 1555-1558.		578
2	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
3	Density measurements in exploding wire-initiated plasmas using tungsten wires. Physics of Plasmas, 1999, 6, 4272-4283.	1.9	74
4	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
5	Short and long term biocompatibility of NeuroProbes silicon probes. Journal of Neuroscience Methods, 2010, 189, 216-229.	2.5	55
6	Two-Dimensional Multi-Channel Neural Probes With Electronic Depth Control. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 403-412.	4.0	51
7	Precision Attachment of Individual F1-ATPase Biomolecular Motors on Nanofabricated Substrates. Nano Letters, 2001, 1, 42-44.	9.1	45
8	CMOS-Based High-Density Silicon Microprobe Arrays for Electronic Depth Control in Intracortical Neural Recording Characterization and Application. Journal of Microelectromechanical Systems, 2012, 21, 1426-1435.	2.5	41
9	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
10	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
11	A Low-Voltage Large-Displacement Large-Force Inchworm Actuator. Journal of Microelectromechanical Systems, 2008, 17, 1294-1301.	2.5	31
12	Copper-encapsulated silicon micromachined structures. Journal of Microelectromechanical Systems, 2000, 9, 281-287.	2.5	23
13	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
14	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
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	Engineering Issues in the Fabrication of a Hybrid Nano-Propeller System Powered by F1-ATPase. Biomedical Microdevices, 2001, 3, 71-73.	2.8	10
18	Microelectromechanical systems in urology. Urology, 2003, 61, 883-887.	1.0	10

#	ARTICLE	IF	CITATIONS
19	In vivo validation of the electronic depth control probes. Biomedizinische Technik, 2014, 59, 283-9.	0.8	8
20	High Strength, Polymer Microneedles For Transdermal Drug Delivery. Procedia Engineering, 2011, 25, 1377-1380.	1.2	7
21	Low voltage electrostatic inchworm actuators in aqueous environments. Procedia Chemistry, 2009, 1, 686-689.	0.7	3
22	High channel count electrode system to investigate thalamocortical interactions. Procedia Computer Science, 2011, 7, 178-179.	2.0	2
23	Neural probes " microsystems to interface with the brain. Biomedizinische Technik, 2014, 59, 269-71.	0.8	2
24	Influence of bio-coatings on the recording performance of neural electrodes. Biomedizinische Technik, 2014, 59, 315-22.	0.8	2
25	Micropatterning and dynamic swelling of photo-crosslinkable electroactive Pluronic hydrogel. Procedia Engineering, 2011, 25, 856-859.	1.2	0
26	Surface modification of recording electrodes. Polimeros, 2013, 23, 712-717.	0.7	0