

Nathalia Peixoto

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

895
citations

516215

16
h-index

552369

26
g-index

35
all docs

35
docs citations

35
times ranked

1444
citing authors

#	ARTICLE	IF	CITATIONS
1	Ge-Doped η -Ga ₂ O ₃ MOSFETs. IEEE Electron Device Letters, 2017, 38, 775-778.	2.2	165
2	Lifetime assessment of atomic-layer-deposited Al ₂ O ₃ /Parylene C bilayer coating for neural interfaces using accelerated age testing and electrochemical characterization. Acta Biomaterialia, 2014, 10, 960-967.	4.1	80
3	High pulsed current density η -Ga ₂ O ₃ MOSFETs verified by an analytical model corrected for interface charge. Applied Physics Letters, 2017, 110, .	1.5	75
4	Improving the performance of poly(3,4-ethylenedioxythiophene) for brain-machine interface applications. Acta Biomaterialia, 2014, 10, 2446-2454.	4.1	63
5	Chronic intracortical neural recordings using microelectrode arrays coated with PEDOT/TFB. Acta Biomaterialia, 2016, 32, 57-67.	4.1	54
6	Electrochemical characterization of multi-walled carbon nanotube coated electrodes for biological applications. Carbon, 2009, 47, 884-893.	5.4	52
7	Real-time tracking of neuronal network structure using data assimilation. Physical Review E, 2013, 88, 052715.	0.8	49
8	A portable wireless biometric multi-channel system. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1587-1598.	2.5	40
9	In vivo Characterization of Amorphous Silicon Carbide As a Biomaterial for Chronic Neural Interfaces. Frontiers in Neuroscience, 2016, 10, 301.	1.4	36
10	Improved sleep-wake and behavior discrimination using MEMS accelerometers. Journal of Neuroscience Methods, 2007, 163, 373-383.	1.3	35
11	Use of cortical neuronal networks for in vitro material biocompatibility testing. Biosensors and Bioelectronics, 2014, 53, 316-323.	5.3	31
12	Amyloid beta modulation of neuronal network activity in vitro. Brain Research, 2015, 1629, 1-9.	1.1	31
13	Attenuated Glial Reactivity on Topographically Functionalized Poly(3,4-Ethylenedioxythiophene):P-Toluene Sulfonate (PEDOT:PTS) Neuroelectrodes Fabricated by Microimprint Lithography. Small, 2018, 14, e1800863.	5.2	29
14	Detecting connectivity changes in neuronal networks. Journal of Neuroscience Methods, 2012, 209, 388-397.	1.3	26
15	Voice controlled wheelchairs: Fine control by humming. Computer Methods and Programs in Biomedicine, 2013, 112, 156-165.	2.6	24
16	Seizure entrainment with polarizing low-frequency electric fields in a chronic animal epilepsy model. Journal of Neural Engineering, 2009, 6, 046009.	1.8	23
17	Reconstructing neural dynamics using data assimilation with multiple models. Europhysics Letters, 2014, 107, 68005.	0.7	16
18	Differential responses to δ -agatoxin IVA in murine frontal cortex and spinal cord derived neuronal networks. NeuroToxicology, 2013, 37, 19-25.	1.4	13

#	ARTICLE	IF	CITATIONS
19	Dynamically Programmable Electronic Pill Dispenser System. Journal of Medical Systems, 2010, 34, 357-366.	2.2	11
20	Time-Dependent Increase in Network Response to Stimulation. PLoS ONE, 2015, 10, e0142399.	1.1	8
21	Zebrafish larvae heartbeat detection from body deformation in low resolution and low frequency video. Medical and Biological Engineering and Computing, 2018, 56, 2353-2365.	1.6	7
22	Voice Recognition Algorithm for Portable Assistive Devices. , 2007, , .		5
23	Implantable Electrodes with Carbon Nanotube Coatings. , 0, , .		4
24	Exploring Slope with Stairs & Steps. Mathematics Teaching in the Middle School, 2013, 18, 370-377.	0.2	4
25	Intelligent Multi-Electrode Arrays as the Next Generation of Electrochemical Biosensors for Real-Time Analysis of Neurotransmitters. , 2018, , .		4
26	Time-dependent Increase in the Network Response to the Stimulation of Neuronal Cell Cultures on Micro-electrode Arrays. Journal of Visualized Experiments, 2017, , .	0.2	3
27	Syntactic landmine detection and classification. Proceedings of SPIE, 2009, , .	0.8	2
28	Upper bound on false alarm rate for landmine detection and classification using syntactic pattern recognition. , 2010, , .		1
29	Preprocessing of GPR data for syntactic landmine detection and classification. Proceedings of SPIE, 2010, , .	0.8	1
30	Dielectrophoretic trapping of P19 cells on indium tin oxide based microelectrode arrays. , 2013, , .		1
31	Electrochemical Characterization of Vitreous Humor. Procedia Technology, 2017, 27, 301-303.	1.1	1
32	When triggers become tigers: taming the autonomic nervous system via sensory support system modulation. Journal of Social Work Practice in the Addictions, 2021, 21, 382-395.	0.4	1
33	Fractal Brownian motion for feature extraction in noisy signals from gas sensors. , 2007, , .		0
34	Project ownership and student performance in user-centered senior design projects. , 2014, , .		0
35	Dynamic steering of in vitro cortical neurons using field stimulation. , 2014, 2014, 6577-80.		0