Elias Manjarrez

List of Publications by Year
in descending order

68	1,510	394286	330025
papers	citations	19 h-index	37 g-index

71	71	71	1642
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sleep Deprivation and Oxidative Stress in Animal Models: A Systematic Review. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-15.	1.9	184
2	Resonant Magnetic Field Sensors Based On MEMS Technology. Sensors, 2009, 9, 7785-7813.	2.1	148
3	Effects of auditory noise on the psychophysical detection of visual signals: Cross-modal stochastic resonance. Neuroscience Letters, 2007, 415, 231-236.	1.0	94
4	Internal stochastic resonance in the coherence between spinal and cortical neuronal ensembles in the cat. Neuroscience Letters, 2002, 326, 93-96.	1.0	76
5	Improved Sensorimotor Performance via Stochastic Resonance. Journal of Neuroscience, 2012, 32, 12612-12618.	1.7	73
6	Stochastic Resonance within the Somatosensory System: Effects of Noise on Evoked Field Potentials Elicited by Tactile Stimuli. Journal of Neuroscience, 2003, 23, 1997-2001.	1.7	71
7	Corticomuscular Coherence Reflects Interindividual Differences in the State of the Corticomuscular Network During Low-Level Static and Dynamic Forces. Cerebral Cortex, 2012, 22, 628-638.	1.6	67
8	Stochastic resonance in human electroencephalographic activity elicited by mechanical tactile stimuli. Neuroscience Letters, 2002, 324, 213-216.	1.0	63
9	Stochastic Resonance in the Motor System: Effects of Noise on the Monosynaptic Reflex Pathway of the Cat Spinal Cord. Journal of Neurophysiology, 2007, 97, 4007-4016.	0.9	52
10	Propagation of Sinusoidal Electrical Waves along the Spinal Cord during a Fictive Motor Task. Journal of Neuroscience, 2009, 29, 798-810.	1.7	51
11	Noise Improves Visual Motion Discrimination via a Stochastic Resonance-Like Phenomenon. Frontiers in Human Neuroscience, 2016, 10, 572.	1.0	44
12	Modulation of synaptic transmission from segmental afferents by spontaneous activity of dorsal horn spinal neurones in the cat. Journal of Physiology, 2000, 529, 445-460.	1.3	38
13	Mechanical design and characterization of a resonant magnetic field microsensor with linear response and high resolution. Sensors and Actuators A: Physical, 2011, 165, 399-409.	2.0	31
14	Intersegmental synchronization of spontaneous activity of dorsal horn neurons in the cat spinal cord. Experimental Brain Research, 2003, 148, 401-413.	0.7	28
15	Enhanced corticomuscular coherence by external stochastic noise. Frontiers in Human Neuroscience, 2014, 8, 325.	1.0	28
16	Stochastic resonance in the synaptic transmission between hair cells and vestibular primary afferents in development. Neuroscience, 2016, 322, 416-429.	1.1	27
17	Effects of Short-Term Random Noise Electrical Stimulation on Dissociated Pyramidal Neurons from the Cerebral Cortex. Neuroscience, 2019, 404, 371-386.	1.1	24
18	Computing the center of mass for traveling alpha waves in the human brain. Brain Research, 2007, 1145, 239-247.	1.1	21

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19	An Intersegmental Neuronal Architecture for Spinal Wave Propagation under Deletions. Journal of Neuroscience, 2009, 29, 10254-10263.	1.7	20
20	Sensing magnetic flux density of artificial neurons with a MEMS device. Biomedical Microdevices, 2011, 13, 303-313.	1.4	20
21	Broad-band Gaussian noise is most effective in improving motor performance and is most pleasant. Frontiers in Human Neuroscience, 2014, 8, 22.	1.0	20
22	Effect of mechanical tactile noise on amplitude of visual evoked potentials: multisensory stochastic resonance. Journal of Neurophysiology, 2015, 114, 2132-2143.	0.9	20
23	Cortical neuronal ensembles driven by dorsal horn spinal neurones with spontaneous activity in the cat. Neuroscience Letters, 2002, 318, 145-148.	1.0	19
24	Spinal Source for the Synchronous Fluctuations of Bilateral Monosynaptic Reflexes in Cats. Journal of Neurophysiology, 2005, 94, 3199-3210.	0.9	19
25	Analytical Modeling for the Bending Resonant Frequency of Sensors Based on Micro and Nanoresonators With Complex Structural Geometry. IEEE Sensors Journal, 2011, 11, 1361-1374.	2.4	19
26	Absence of effects of contralateral group I muscle afferents on presynaptic inhibition of Ia terminals in humans and cats. Journal of Neurophysiology, 2012, 108, 1176-1185.	0.9	15
27	Digital Signal Processing by Virtual Instrumentation of a MEMS Magnetic Field Sensor for Biomedical Applications. Sensors, 2013, 13, 15068-15084.	2.1	14
28	Optogenetic noise-photostimulation on the brain increases somatosensory spike firing responses. Neuroscience Letters, 2018, 664, 51-57.	1.0	14
29	Reticular activating system of a central pattern generator: premovement electrical potentials. Physiological Reports, 2013, 1, e00129.	0.7	13
30	Respiratory Magnetogram Detected with a MEMS Device. International Journal of Medical Sciences, 2013, 10, 1445-1450.	1.1	11
31	Suppression of Enhanced Physiological Tremor via Stochastic Noise: Initial Observations. PLoS ONE, 2014, 9, e112782.	1.1	11
32	The Potential of Trial-by-Trial Variabilities of Ongoing-EEG, Evoked Potentials, Event Related Potentials and fMRI as Diagnostic Markers for Neuropsychiatric Disorders. Frontiers in Neuroscience, 2018, 12, 850.	1.4	11
33	Amplitude of somatosensory cortical evoked potentials is correlated with spontaneous activity of spinal neurones in the cat. Neuroscience Letters, 2002, 323, 187-190.	1.0	10
34	Histological correlates of N40 auditory evoked potentials in adult rats after neonatal ventral hippocampal lesion: animal model of schizophrenia. Schizophrenia Research, 2014, 159, 450-457.	1.1	10
35	Augmenting EEG-global-coherence with auditory and visual noise. Medicine (United States), 2018, 97, e12008.	0.4	10
36	A microcomputer program for automated neuronal spike detection and analysis. International Journal of Medical Informatics, 1997, 44, 203-212.	1.6	9

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37	Persistence of PAD and presynaptic inhibition of muscle spindle afferents after peripheral nerve crush. Brain Research, 2004, 1027, 179-187.	1.1	9
38	Brownian Optogenetic-Noise-Photostimulation on the Brain Amplifies Somatosensory-Evoked Field Potentials. Frontiers in Neuroscience, 2017, 11, 464.	1.4	9
39	Transition of pattern generation: The phenomenon of post-scratching locomotion. Neuroscience, 2015, 288, 156-166.	1.1	8
40	Absence of coherence between cervical and lumbar spinal cord dorsal surface potentials in the anaesthetized cat. Neuroscience Letters, 2002, 328, 37-40.	1.0	7
41	Ghost resonance in a pool of heterogeneous neurons. BioSystems, 2007, 89, 166-172.	0.9	7
42	Tonically Active Î±5GABAA Receptors Reduce Motoneuron Excitability and Decrease the Monosynaptic Reflex. Frontiers in Cellular Neuroscience, 2017, 11, 283.	1.8	7
43	Phantom reflexes: Muscle contractions at a frequency not physically present in the input stimuli. BioSystems, 2007, 90, 379-388.	0.9	6
44	Electrophysiological Representation of Scratching CPG Activity in the Cerebellum. PLoS ONE, 2014, 9, e109936.	1.1	6
45	Random noise stimulation in the treatment of patients with neurological disorders. Neural Regeneration Research, 2022, 17, 2557.	1.6	6
46	NO donor SIN-1 potentiates monosynaptic reflexes in the cat spinal cord. NeuroReport, 2001, 12, 2667-2671.	0.6	5
47	Improved Detection of Magnetic Signals by a MEMS Sensor Using Stochastic Resonance. PLoS ONE, 2014, 9, e109534.	1.1	5
48	Noisy Light Augments the Na+ Current in Somatosensory Pyramidal Neurons of Optogenetic Transgenic Mice. Frontiers in Neuroscience, 2020, 14, 490.	1.4	5
49	Afterdischarges of Spinal Interneurons Following a Brief High-Frequency Stimulation of Ia Afferents in the Cat. Frontiers in Integrative Neuroscience, 2019, 13, 75.	1.0	5
50	Nitric oxide modulates spontaneous cord dorsum potentials in the cat spinal cord. Neuroscience Letters, 2001, 309, 5-8.	1.0	4
51	Spinal neurons bursting in phase with fictive scratching are not related to spontaneous cord dorsum potentials. Neuroscience, 2014, 266, 66-79.	1.1	4
52	The Spinal Neurons Exhibit an ON-OFF and OFF-ON Firing Activity Around the Onset of Fictive Scratching Episodes in the Cat. Frontiers in Cellular Neuroscience, 2018, 12, 68.	1.8	4
53	Resetting the Respiratory Rhythm with a Spinal Central Pattern Generator. ENeuro, 2019, 6, ENEURO.0116-19.2019.	0.9	4
54	Late onset muscle plasticity in the whisker pad of enucleated rats. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15973-15978.	3.3	3

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55	Modeling zero-lag synchronization of dorsal horn neurons during the traveling of electrical waves in the cat spinal cord. Physiological Reports, 2013, 1, e00021.	0.7	3
56	Differential frequency-dependent antidromic resonance of the Schaffer collaterals and mossy fibers. Brain Structure and Function, 2016, 221, 1793-1807.	1.2	3
57	The Complexity of H-wave Amplitude Fluctuations and Their Bilateral Cross-Covariance Are Modified According to the Previous Fitness History of Young Subjects under Track Training. Frontiers in Human Neuroscience, 2017, 11, 530.	1.0	3
58	The Hemodynamic Mass Action of a Central Pattern Generator. Frontiers in Neuroscience, 2020, 14, 38.	1.4	3
59	Augmenting Global Coherence in EEG Signals with Binaural or Monaural Noises. Brain Topography, 2020, 33, 461-476.	0.8	3
60	Balanced expression of G protein-coupled receptor subtypes in the mouse, macaque, and human cerebral cortex. Neuroscience, 2022, 487, 107-107.	1.1	2
61	Stochastic resonance in the spinal cord and somatosensory cortex of the cat. , 2003, , .		1
62	Potential role of noise to improve intracortical microstimulation in tactile neuroprostheses. Neural Regeneration Research, 2021, 16, 1533.	1.6	1
63	Modeling Post-Scratching Locomotion with Two Rhythm Generators and a Shared Pattern Formation. Biology, 2021, 10, 663.	1.3	1
64	Modeling of spontaneous zero-lag synchronization and wave propagation in cat spinal cord. , 2013, , .		0
65	Stochastic Filtrate of Essential Workers to Reactivate the World Economy Safely. Frontiers in Physics, 2020, 8, .	1.0	0
66	Changes in Serotonin Modulation of Glutamate Currents in Pyramidal Offspring Cells of Rats Treated With 5-MT during Gestation. Brain Sciences, 2020, 10, 221.	1.1	0
67	Low-field thoracic magnetic stimulation increases peripheral oxygen saturation levels in coronavirus disease (COVID-19) patients. Medicine (United States), 2021, 100, e27444.	0.4	0
68	Wireless System Design for Direct Current Photoplethysmography. , 2021, , .		0