Gene Y Fridman

List of Publications by Year
in descending order

39	1,317	331670	434195
papers	citations	21 h-index	31 g-index

41	41	41	946
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Relationship between perception of spectral ripple and speech recognition in cochlear implant and vocoder listeners. Journal of the Acoustical Society of America, 2007, 122, 982-991.	1.1	166
2	Ruling out and ruling in neural codes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5936-5941.	7.1	152
3	Effects of Biphasic Current Pulse Frequency, Amplitude, Duration, and Interphase Gap on Eye Movement Responses to Prosthetic Electrical Stimulation of the Vestibular Nerve. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 84-94.	4.9	82
4	Vestibulo-Ocular Reflex Responses to a Multichannel Vestibular Prosthesis Incorporating a 3D Coordinate Transformation for Correction of Misalignment. JARO - Journal of the Association for Research in Otolaryngology, 2010, 11, 367-381.	1.8	65
5	Progress Toward Development of a Multichannel Vestibular Prosthesis for Treatment of Bilateral Vestibular Deficiency. Anatomical Record, 2012, 295, 2010-2029.	1.4	64
6	Restoration of 3D vestibular sensation in rhesus monkeys using a multichannel vestibular prosthesis. Hearing Research, 2011, 281, 74-83.	2.0	63
7	Design and performance of a multichannel vestibular prosthesis that restores semicircular canal sensation in rhesus monkey. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 588-598.	4.9	59
8	Perceived intensity of somatosensory cortical electrical stimulation. Experimental Brain Research, 2010, 203, 499-515.	1.5	50
9	Cross-axis adaptation improves 3D vestibulo-ocular reflex alignment during chronic stimulation via a head-mounted multichannel vestibular prosthesis. Experimental Brain Research, 2011, 210, 595-606.	1.5	49
10	Safe Direct Current Stimulation to Expand Capabilities of Neural Prostheses. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 319-328.	4.9	47
11	Continuous vestibular implant stimulation partially restores eye-stabilizing reflexes. JCI Insight, 2019, 4, .	5.0	45
12	Effects of vestibular prosthesis electrode implantation and stimulation on hearing in rhesus monkeys. Hearing Research, 2011, 277, 204-210.	2.0	44
13	Directional Plasticity Rapidly Improves 3D Vestibulo-Ocular Reflex Alignment in Monkeys Using a Multichannel Vestibular Prosthesis. JARO - Journal of the Association for Research in Otolaryngology, 2013, 14, 863-877.	1.8	43
14	Co-modulation of stimulus rate and current from elevated baselines expands head motion encoding range of the vestibular prosthesis. Experimental Brain Research, 2012, 218, 389-400.	1.5	41
15	Implantable Direct Current Neural Modulation: Theory, Feasibility, and Efficacy. Frontiers in Neuroscience, 2019, 13, 379.	2.8	36
16	Current and Future Management of Bilateral Loss of Vestibular Sensation â€" An Update on the Johns Hopkins Multichannel Vestibular Prosthesis Project. Cochlear Implants International, 2010, 11, 2-11.	1.2	34
17	High-Frequency Stimulation at the Subthalamic Nucleus Suppresses Excessive Self-Grooming in Autism-Like Mouse Models. Neuropsychopharmacology, 2016, 41, 1813-1821.	5.4	34
18	Multichannel Vestibular Prosthesis Employing Modulation of Pulse Rate and Current with Alignment Precompensation Elicits Improved VOR Performance in Monkeys. JARO - Journal of the Association for Research in Otolaryngology, 2013, 14, 233-248.	1.8	31

#	Article	IF	Citations
19	Differential expression of voltage-gated sodium channels in afferent neurons renders selective neural block by ionic direct current. Science Advances, 2018, 4, eaaq1438.	10.3	30
20	Wireless control of cellular function by activation of a novel protein responsive to electromagnetic fields. Scientific Reports, 2018, 8, 8764.	3.3	30
21	A CMOS Neural Interface for a Multichannel Vestibular Prosthesis. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 269-279.	4.0	25
22	Ionic Direct Current Modulation for Combined Inhibition/Excitation of the Vestibular System. IEEE Transactions on Biomedical Engineering, 2019, 66, 775-783.	4.2	21
23	Safe direct current stimulator 2: Concept and design. , 2013, 2013, 3126-9.		14
24	Normally closed plunger-membrane microvalve self-actuated electrically using a shape memory alloy wire. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	14
25	Chronic stimulation of the semicircular canals using a multichannel vestibular prosthesis: Effects on locomotion and angular vestibulo-ocular reflex in chinchillas. , 2011, 2011, 3519-23.		13
26	Safe Direct Current Stimulator design for reduced power consumption and increased reliability. , 2017, 2017, 1082-1085.		9
27	Ionic direct current modulation evokes spike-rate adaptation in the vestibular periphery. Scientific Reports, 2019, 9, 18924.	3.3	9
28	Usefulness of a Noninvasive Device to Identify Elevated Left Ventricular Filling Pressure Using Finger Photoplethysmography During a Valsalva Maneuver. American Journal of Cardiology, 2017, 119, 1053-1060.	1.6	8
29	Direct current effects on afferent and hair cell to elicit natural firing patterns. IScience, 2021, 24, 102205.	4.1	6
30	Electronics for a safe direct current stimulator. , 2017, 2017, .		5
31	Predicting Response of Spontaneously Firing Afferents to Prosthetic Pulsatile Stimulation. , 2020, 2020, 2929-2933.		5
32	Normally closed plunger-membrane microvalve self-actuated electrically using a shape memory alloy wire. Microfluidics and Nanofluidics, 2018, 22, .	2.2	5
33	A Hydrogel-Based Microfluidic Nerve Cuff for Neuromodulation of Peripheral Nerves. Micromachines, 2021, 12, 1522.	2.9	5
34	Miniature elastomeric valve design for safe direct current stimulator. , 2017, 2017, 1-4.		4
35	MouthLab: A Tricorder Concept Optimized for Rapid Medical Assessment. Annals of Biomedical Engineering, 2015, 43, 2175-2184.	2.5	3
36	Nerve cuff electrode pressure estimation via electrical impedance measurement. Journal of Neural Engineering, 2019, 16, 064003.	3.5	2

#	Article	IF	Citations
37	On-chip ionic current sensor. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
38	Somatosensory Feedback for Brain-Machine Interfaces: Perceptual Model and Experiments in Rat Whisker Somatosensory Cortex. , 2007, , .		1
39	Ionic transistor using ion exchange membranes. Lab on A Chip, 0, , .	6.0	0