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	Direct current effects on afferent and hair cell to elicit natural firing patterns. IScience, 2021, 24, 102205.	4.1	6
2	On-chip ionic current sensor. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
3	A Hydrogel-Based Microfluidic Nerve Cuff for Neuromodulation of Peripheral Nerves. Micromachines, 2021, 12, 1522.	2.9	5
4	Predicting Response of Spontaneously Firing Afferents to Prosthetic Pulsatile Stimulation. , 2020, 2020, 2929-2933.		5
5	Ionic Direct Current Modulation for Combined Inhibition/Excitation of the Vestibular System. IEEE Transactions on Biomedical Engineering, 2019, 66, 775-783.	4.2	21
6	Nerve cuff electrode pressure estimation via electrical impedance measurement. Journal of Neural Engineering, 2019, 16, 064003.	3.5	2
7	Implantable Direct Current Neural Modulation: Theory, Feasibility, and Efficacy. Frontiers in Neuroscience, 2019, 13, 379.	2.8	36
8	Ionic direct current modulation evokes spike-rate adaptation in the vestibular periphery. Scientific Reports, 2019, 9, 18924.	3.3	9
9	Continuous vestibular implant stimulation partially restores eye-stabilizing reflexes. JCI Insight, 2019, 4, .	5.0	45
10	Normally closed plunger-membrane microvalve self-actuated electrically using a shape memory alloy wire. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	14
11	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
12	Wireless control of cellular function by activation of a novel protein responsive to electromagnetic fields. Scientific Reports, 2018, 8, 8764.	3.3	30
13	Normally closed plunger-membrane microvalve self-actuated electrically using a shape memory alloy wire. Microfluidics and Nanofluidics, 2018, 22, .	2.2	5
14	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
15	Safe Direct Current Stimulator design for reduced power consumption and increased reliability. , 2017, 2017, 1082-1085.		9
16	Electronics for a safe direct current stimulator. , 2017, 2017, .		5
17	Miniature elastomeric valve design for safe direct current stimulator. , 2017, 2017, 1-4.		4
18	A CMOS Neural Interface for a Multichannel Vestibular Prosthesis. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 269-279.	4.0	25

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19	High-Frequency Stimulation at the Subthalamic Nucleus Suppresses Excessive Self-Grooming in Autism-Like Mouse Models. Neuropsychopharmacology, 2016, 41, 1813-1821.	5.4	34
20	MouthLab: A Tricorder Concept Optimized for Rapid Medical Assessment. Annals of Biomedical Engineering, 2015, 43, 2175-2184.	2.5	3
21	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
22	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
23	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
24	Safe direct current stimulator 2: Concept and design. , 2013, 2013, 3126-9.		14
25	Progress Toward Development of a Multichannel Vestibular Prosthesis for Treatment of Bilateral Vestibular Deficiency. Anatomical Record, 2012, 295, 2010-2029.	1.4	64
26	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
27	Effects of vestibular prosthesis electrode implantation and stimulation on hearing in rhesus monkeys. Hearing Research, 2011, 277, 204-210.	2.0	44
28	Restoration of 3D vestibular sensation in rhesus monkeys using a multichannel vestibular prosthesis. Hearing Research, 2011, 281, 74-83.	2.0	63
29	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
30	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
31	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
32	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
33	Perceived intensity of somatosensory cortical electrical stimulation. Experimental Brain Research, 2010, 203, 499-515.	1.5	50
34	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
35	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
36	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

#	Article	IF	Citations
37	Somatosensory Feedback for Brain-Machine Interfaces: Perceptual Model and Experiments in Rat Whisker Somatosensory Cortex. , 2007, , .		1
38	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
39	Ionic transistor using ion exchange membranes. Lab on A Chip, 0, , .	6.0	0