

Jennifer N Gelin

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,530
citations

516215

16
h-index

610482

24
g-index

29
all docs

29
docs citations

29
times ranked

3560
citing authors

#	ARTICLE	IF	CITATIONS
1	NeuroGrid: recording action potentials from the surface of the brain. <i>Nature Neuroscience</i> , 2015, 18, 310-315.	7.1	745
2	Learning-enhanced coupling between ripple oscillations in association cortices and hippocampus. <i>Science</i> , 2017, 358, 369-372.	6.0	293
3	Network Homeostasis and State Dynamics of Neocortical Sleep. <i>Neuron</i> , 2016, 90, 839-852.	3.8	259
4	Interictal epileptiform discharges induce hippocampal-cortical coupling in temporal lobe epilepsy. <i>Nature Medicine</i> , 2016, 22, 641-648.	15.2	221
5	Internal ion-gated organic electrochemical transistor: A building block for integrated bioelectronics. <i>Science Advances</i> , 2019, 5, eaau7378.	4.7	208
6	Enhancement-mode ion-based transistor as a comprehensive interface and real-time processing unit for in vivo electrophysiology. <i>Nature Materials</i> , 2020, 19, 679-686.	13.3	182
7	Organic electronics for high-resolution electrocorticography of the human brain. <i>Science Advances</i> , 2016, 2, e1601027.	4.7	147
8	Neuroelectronics and Biooptics. <i>JAMA Neurology</i> , 2015, 72, 823.	4.5	84
9	Interictal epileptiform discharges shape large-scale intercortical communication. <i>Brain</i> , 2019, 142, 3502-3513.	3.7	59
10	Chronic electrical stimulation of peripheral nerves via deep-red light transduced by an implanted organic photocapacitor. <i>Nature Biomedical Engineering</i> , 2022, 6, 741-753.	11.6	59
11	Translational Neuroelectronics. <i>Advanced Functional Materials</i> , 2020, 30, 1909165.	7.8	44
12	Reduced GABAergic Neuron Excitability, Altered Synaptic Connectivity, and Seizures in a KCNT1 Gain-of-Function Mouse Model of Childhood Epilepsy. <i>Cell Reports</i> , 2020, 33, 108303.	2.9	41
13	Mixed-conducting particulate composites for soft electronics. <i>Science Advances</i> , 2020, 6, eaaz6767.	4.7	33
14	Cerebellar language mapping and cerebral language dominance in pediatric epilepsy surgery patients. <i>NeuroImage: Clinical</i> , 2014, 6, 296-306.	1.4	30
15	Ionic communication for implantable bioelectronics. <i>Science Advances</i> , 2022, 8, eabm7851.	4.7	25
16	Transcranial Electrical Stimulation and Recording of Brain Activity using Freestanding Plant-Based Conducting Polymer Hydrogel Composites. <i>Advanced Materials Technologies</i> , 2020, 5, 1900652.	3.0	22
17	Non-invasive optogenetics with ultrasound-mediated gene delivery and red-light excitation. <i>Brain Stimulation</i> , 2022, 15, 927-941.	0.7	15
18	Chitosan-Based, Biocompatible, Solution Processable Films for In Vivo Localization of Neural Interface Devices. <i>Advanced Materials Technologies</i> , 2020, 5, 1900663.	3.0	13

#	ARTICLE	IF	CITATIONS
19	Responsive manipulation of neural circuit pathology by fully implantable, front-end multiplexed embedded neuroelectronics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	12
20	Noradrenergic gating of long-lasting synaptic potentiation in the hippocampus: from neurobiology to translational biomedicine. Journal of Neurogenetics, 2018, 32, 171-182.	0.6	11
21	A transient postnatal quiescent period precedes emergence of mature cortical dynamics. ELife, 2021, 10, .	2.8	11
22	Anisotropic Ion Conducting Particulate Composites for Bioelectronics. Advanced Science, 2022, 9, e2104404.	5.6	7
23	Child Neurology: Krabbe disease. Neurology, 2012, 79, e170-2.	1.5	6
24	Ripples for memory retrieval in humans. Science, 2019, 363, 927-928.	6.0	1
25	Reply: Interactions of interictal epileptic discharges with sleep slow waves and spindles. Brain, 2020, 143, e28-e28.	3.7	0
26	Ions-based high bandwidth communication for implantable bioelectronics. , 0, , .		0
27	Conformable organic electronics for neurological disorders. , 0, , .		0