

Fiona E N Lebeau

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

5,839
citations

117625

34
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

5460
citing authors

#	ARTICLE	IF	CITATIONS
1	Impaired Electrical Signaling Disrupts Gamma Frequency Oscillations in Connexin 36-Deficient Mice. <i>Neuron</i> , 2001, 31, 487-495.	8.1	479
2	Recruitment of Parvalbumin-Positive Interneurons Determines Hippocampal Function and Associated Behavior. <i>Neuron</i> , 2007, 53, 591-604.	8.1	462
3	Single-Column Thalamocortical Network Model Exhibiting Gamma Oscillations, Sleep Spindles, and Epileptogenic Bursts. <i>Journal of Neurophysiology</i> , 2005, 93, 2194-2232.	1.8	428
4	CELLULAR MECHANISMS OF NEURONAL POPULATION OSCILLATIONS IN THE HIPPOCAMPUS IN VITRO. <i>Annual Review of Neuroscience</i> , 2004, 27, 247-278.	10.7	314
5	Gap Junctions between Interneuron Dendrites Can Enhance Synchrony of Gamma Oscillations in Distributed Networks. <i>Journal of Neuroscience</i> , 2001, 21, 9478-9486.	3.6	310
6	A Possible Role for Gap Junctions in Generation of Very Fast EEG Oscillations Preceding the Onset of, and Perhaps Initiating, Seizures. <i>Epilepsia</i> , 2008, 42, 153-170.	5.1	308
7	A beta2-frequency (20-30 Hz) oscillation in nonsynaptic networks of somatosensory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15646-15650.	7.1	291
8	A model of gamma-frequency network oscillations induced in the rat CA3 region by carbachol in vitro. <i>European Journal of Neuroscience</i> , 2000, 12, 4093-4106.	2.6	256
9	Multiple origins of the cortical gamma rhythm. <i>Developmental Neurobiology</i> , 2011, 71, 92-106.	3.0	224
10	GABA-enhanced collective behavior in neuronal axons underlies persistent gamma-frequency oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11047-11052.	7.1	215
11	Microcircuits in action "from CPGs to neocortex. <i>Trends in Neurosciences</i> , 2005, 28, 525-533.	8.6	189
12	A role for fast rhythmic bursting neurons in cortical gamma oscillations in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7152-7157.	7.1	185
13	Iontophoresis <i>In Vivo</i> Demonstrates a Key Role for GABA _A and Glycinergic Inhibition in Shaping Frequency Response Areas in the Inferior Colliculus of Guinea Pig. <i>Journal of Neuroscience</i> , 2001, 21, 7303-7312.	3.6	181
14	A Model of Atropine-Resistant Theta Oscillations in Rat Hippocampal Area CA1. <i>Journal of Physiology</i> , 2002, 543, 779-793.	2.9	180
15	Region-Specific Reduction in Entorhinal Gamma Oscillations and Parvalbumin-Immunoreactive Neurons in Animal Models of Psychiatric Illness. <i>Journal of Neuroscience</i> , 2006, 26, 2767-2776.	3.6	173
16	What electrophysiology tells us about Alzheimer's disease: a window into the synchronization and connectivity of brain neurons. <i>Neurobiology of Aging</i> , 2020, 85, 58-73.	3.1	150
17	Contrasting roles of axonal (pyramidal cell) and dendritic (interneuron) electrical coupling in the generation of neuronal network oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1370-1374.	7.1	139
18	Synaptic pathways in neural microcircuits. <i>Trends in Neurosciences</i> , 2005, 28, 541-551.	8.6	113

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19	Sharp Wave-Like Activity in the Hippocampus In Vitro in Mice Lacking the Gap Junction Protein Connexin 36. <i>Journal of Neurophysiology</i> , 2003, 89, 2046-2054.	1.8	110
20	NMDA receptor-dependent switching between different gamma rhythm-generating microcircuits in entorhinal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18572-18577.	7.1	102
21	Fast network oscillations induced by potassium transients in the rat hippocampus in vitro. <i>Journal of Physiology</i> , 2002, 542, 167-179.	2.9	89
22	The role of electrical signaling via gap junctions in the generation of fast network oscillations. <i>Brain Research Bulletin</i> , 2003, 62, 3-13.	3.0	79
23	Impairment of hippocampal gamma (β) frequency oscillations <i>in vitro</i> in mice overexpressing human amyloid precursor protein (APP). <i>European Journal of Neuroscience</i> , 2007, 26, 1280-1288.	2.6	77
24	Transient Depression of Excitatory Synapses on Interneurons Contributes to Epileptiform Bursts During Gamma Oscillations in the Mouse Hippocampal Slice. <i>Journal of Neurophysiology</i> , 2005, 94, 1225-1235.	1.8	70
25	Cholinergic neuromodulation controls directed temporal communication in neocortex in vitro. <i>Frontiers in Neural Circuits</i> , 2010, 4, 8.	2.8	66
26	Persistent gamma oscillations in superficial layers of rat auditory neocortex: experiment and model. <i>Journal of Physiology</i> , 2005, 562, 3-8.	2.9	55
27	Fast Network Oscillations in the Rat Dentate Gyrus In Vitro. <i>Journal of Neurophysiology</i> , 2002, 87, 1165-1168.	1.8	53
28	Beta Rhythms (15–20 Hz) Generated by Nonreciprocal Communication in Hippocampus. <i>Journal of Neurophysiology</i> , 2007, 97, 2812-2823.	1.8	51
29	Minimal Size of Cell Assemblies Coordinated by Gamma Oscillations. <i>PLoS Computational Biology</i> , 2012, 8, e1002362.	3.2	48
30	Tuning the network: modulation of neuronal microcircuits in the spinal cord and hippocampus. <i>Trends in Neurosciences</i> , 2005, 28, 552-561.	8.6	47
31	β -adrenergic receptors are differentially expressed in distinct interneuron subtypes in the rat hippocampus. <i>Journal of Comparative Neurology</i> , 2008, 509, 551-565.	1.6	47
32	Quantitative electroencephalography as a marker of cognitive fluctuations in dementia with Lewy bodies and an aid to differential diagnosis. <i>Clinical Neurophysiology</i> , 2018, 129, 1209-1220.	1.5	43
33	A comparison of the effects of Propofol with other anaesthetic agents on the centripetal transmission of sensory information. <i>General Pharmacology</i> , 1992, 23, 945-963.	0.7	41
34	Bidirectional modulation of hippocampal gamma (20–80 Hz) frequency activity in vitro via alpha(β)- and beta(β)-adrenergic receptors (AR). <i>Neuroscience</i> , 2013, 253, 142-154.	2.3	39
35	Anti-inflammatory treatment rescues memory deficits during aging in <i>nfkb1</i> ^{−/−} mice. <i>Aging Cell</i> , 2020, 19, e13188.	6.7	38
36	A Possible Role for Gap Junctions in Generation of Very Fast EEG Oscillations Preceding the Onset of, and Perhaps Initiating, Seizures. <i>Epilepsia</i> , 2003, 42, 153-170.	5.1	28

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37	Oscillatory activity within rat substantia gelatinosa in vitro: a role for chemical and electrical neurotransmission. <i>Journal of Physiology</i> , 2005, 562, 183-198.	2.9	26
38	The Role of EEG in the Diagnosis, Prognosis and Clinical Correlations of Dementia with Lewy Bodies – A Systematic Review. <i>Diagnostics</i> , 2020, 10, 616.	2.6	24
39	Partial loss of parvalbumin-containing hippocampal interneurons in dementia with Lewy bodies. <i>Neuropathology</i> , 2011, 31, 1-10.	1.2	20
40	Heterogeneity in Neuronal Intrinsic Properties: A Possible Mechanism for Hub-Like Properties of the Rat Anterior Cingulate Cortex during Network Activity. <i>ENeuro</i> , 2017, 4, ENEURO.0313-16.2017.	1.9	17
41	Impaired Fast Network Oscillations and Mitochondrial Dysfunction in a Mouse Model of Alpha-synucleinopathy (A30P). <i>Neuroscience</i> , 2018, 377, 161-173.	2.3	12
42	Electrical stimulation of the ventral tegmental area evokes sleep-like state transitions under urethane anaesthesia in the rat medial prefrontal cortex via dopamine D ₁ -like receptors. <i>European Journal of Neuroscience</i> , 2020, 52, 2915-2930.	2.6	11
43	Subregional differences in the generation of fast network oscillations in the rat medial prefrontal cortex (mPFC) <i>in vitro</i> . <i>Journal of Physiology</i> , 2015, 593, 3597-3615.	2.9	10
44	Hippocampal network hyperexcitability in young transgenic mice expressing human mutant alpha-synuclein. <i>Neurobiology of Disease</i> , 2021, 149, 105226.	4.4	10
45	Dorsal vs. ventral differences in fast Up-state-associated oscillations in the medial prefrontal cortex of the urethane-anesthetized rat. <i>Journal of Neurophysiology</i> , 2017, 117, 1126-1142.	1.8	9
46	Early Disruption of Cortical Sleep-Related Oscillations in a Mouse Model of Dementia With Lewy Bodies (DLB) Expressing Human Mutant (A30P) Alpha-Synuclein. <i>Frontiers in Neuroscience</i> , 2020, 14, 579867.	2.8	9
47	A Closed-Loop Optogenetic Platform. <i>Frontiers in Neuroscience</i> , 2021, 15, 718311.	2.8	4
48	Structure/function correlates of neuronal and network activity - an overview. <i>Journal of Physiology</i> , 2005, 562, 1-2.	2.9	2
49	Structure/function correlates of neuronal and network activity - an overview. <i>Journal of Physiology</i> , 2005, 562, 1-2.	2.9	2
50	Cortical network oscillations in Alzheimer's disease: insights from rodent models. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2013, 10, e79-e83.	0.5	0