

Maxime Lvesque

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

5,962
citations

39
h-index

75
g-index

122
ext. papers

7,081
ext. citations

5.6
avg, IF

6.03
L-index

#	Paper	IF	Citations
117	The subiculum and its role in focal epileptic disorders. <i>Reviews in the Neurosciences</i> , 2021 , 32, 249-273	4.7	2
116	Dysregulation of GABAergic Signaling in Neurodevelopmental Disorders: Targeting Cation-Chloride Co-transporters to Re-establish a Proper E/I Balance.. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 813441	6.1	0
115	4E-BP2-dependent translation in parvalbumin neurons controls epileptic seizure threshold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
114	Evolution of interictal spiking during the latent period in a mouse model of mesial temporal lobe epilepsy. <i>Current Research in Neurobiology</i> , 2021 , 2, 100008	0	3
113	The pilocarpine model of mesial temporal lobe epilepsy: Over one decade later, with more rodent species and new investigative approaches. <i>Neuroscience and Biobehavioral Reviews</i> , 2021 , 130, 274-291	9	6
112	KCC2 antagonism and gabaergic synchronization in the entorhinal cortex in the absence of ionotropic glutamatergic receptor signalling. <i>Neuropharmacology</i> , 2020 , 167, 107982	5.5	1
111	Pathological High-Frequency Oscillations in Mesial Temporal Lobe Epilepsy 2020 , 99-116		
110	Cerebellar Cortex 4-12 Hz Oscillations and Unit Phase Relation in the Awake Rat. <i>Frontiers in Systems Neuroscience</i> , 2020 , 14, 475948	3.5	1
109	Neurosteroids and Focal Epileptic Disorders. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
108	Evolving Mechanistic Concepts of Epileptiform Synchronization and their Relevance in Curing Focal Epileptic Disorders. <i>Current Neuropharmacology</i> , 2019 , 17, 830-842	7.6	3
107	Piriform cortex ictogenicity in vitro. <i>Experimental Neurology</i> , 2019 , 321, 113014	5.7	6
106	Transition from status epilepticus to interictal spiking in a rodent model of mesial temporal epilepsy. <i>Epilepsy Research</i> , 2019 , 152, 73-76	3	4
105	Fast ripple analysis in human mesial temporal lobe epilepsy suggests two different seizure-generating mechanisms. <i>Neurobiology of Disease</i> , 2019 , 127, 374-381	7.5	8
104	Paradoxical effects of optogenetic stimulation in mesial temporal lobe epilepsy. <i>Annals of Neurology</i> , 2019 , 86, 714-728	9.4	16
103	KCC2 antagonism increases neuronal network excitability but disrupts ictogenesis in vitro. <i>Journal of Neurophysiology</i> , 2019 , 122, 1163-1173	3.2	3
102	Effects of Diazepam and Ketamine on Pilocarpine-Induced Status Epilepticus in Mice. <i>Neuroscience</i> , 2019 , 421, 112-122	3.9	3
101	High-frequency oscillations and focal seizures in epileptic rodents. <i>Neurobiology of Disease</i> , 2019 , 124, 396-407	7.5	7

100	"Interneurons and principal cell firing in human limbic areas at focal seizure onset". <i>Neurobiology of Disease</i> , 2019 , 124, 183-188	7.5	17
99	Phase-amplitude coupling and epileptogenesis in an animal model of mesial temporal lobe epilepsy. <i>Neurobiology of Disease</i> , 2018 , 114, 111-119	7.5	27
98	High frequency oscillations in epileptic rodents: Are we doing it right?. <i>Journal of Neuroscience Methods</i> , 2018 , 299, 16-21	3	4
97	Dynamic interneuron-principal cell interplay leads to a specific pattern of in vitro ictogenesis. <i>Neurobiology of Disease</i> , 2018 , 115, 92-100	7.5	6
96	In Vivo Recordings of Network Activity Using Local Field Potentials and Single Units in Movement and Network Pathophysiology. <i>Neuromethods</i> , 2018 , 249-266	0.4	
95	Single-unit Activity in the in vitro Entorhinal Cortex During Carbachol-induced Field Oscillations. <i>Neuroscience</i> , 2018 , 379, 1-12	3.9	4
94	High-frequency oscillations and mesial temporal lobe epilepsy. <i>Neuroscience Letters</i> , 2018 , 667, 66-74	3.3	14
93	Interictal oscillations and focal epileptic disorders. <i>European Journal of Neuroscience</i> , 2018 , 48, 2915-2923	7.5	13
92	Role of KCC2-dependent potassium efflux in 4-Aminopyridine-induced Epileptiform synchronization. <i>Neurobiology of Disease</i> , 2018 , 109, 137-147	7.5	16
91	KCC2, epileptiform synchronization, and epileptic disorders. <i>Progress in Neurobiology</i> , 2018 , 162, 1-16	10.9	44
90	Carbachol-Induced theta-like oscillations in the rodent brain limbic system: Underlying mechanisms and significance. <i>Neuroscience and Biobehavioral Reviews</i> , 2018 , 95, 406-420	9	3
89	Low-voltage fast seizures in humans begin with increased interneuron firing. <i>Annals of Neurology</i> , 2018 , 84, 588-600	9.4	39
88	High-frequency oscillations and seizure-like discharges in the entorhinal cortex of the in vitro isolated guinea pig brain. <i>Epilepsy Research</i> , 2017 , 130, 21-26	3	4
87	Optogenetic Low-Frequency Stimulation of Specific Neuronal Populations Abates Ictogenesis. <i>Journal of Neuroscience</i> , 2017 , 37, 2999-3008	6.6	25
86	Carbachol-induced network oscillations in an in vitro limbic system brain slice. <i>Neuroscience</i> , 2017 , 348, 153-164	3.9	7
85	Allopregnanolone decreases interictal spiking and fast ripples in an animal model of mesial temporal lobe epilepsy. <i>Neuropharmacology</i> , 2017 , 121, 12-19	5.5	16
84	Update on the mechanisms and roles of high-frequency oscillations in seizures and epileptic disorders. <i>Epilepsia</i> , 2017 , 58, 1330-1339	6.4	91
83	Time-dependent evolution of seizures in a model of mesial temporal lobe epilepsy. <i>Neurobiology of Disease</i> , 2017 , 106, 205-213	7.5	22

82	Animal models of temporal lobe epilepsy following systemic chemoconvulsant administration. <i>Journal of Neuroscience Methods</i> , 2016 , 260, 45-52	3	131
81	High frequency oscillations can pinpoint seizures progressing to status epilepticus. <i>Experimental Neurology</i> , 2016 , 280, 24-9	5.7	8
80	Hypersynchronous ictal onset in the perirhinal cortex results from dynamic weakening in inhibition. <i>Neurobiology of Disease</i> , 2016 , 87, 1-10	7.5	16
79	Interneurons spark seizure-like activity in the entorhinal cortex. <i>Neurobiology of Disease</i> , 2016 , 87, 91-101	7.5	31
78	Models of drug-induced epileptiform synchronization in vitro. <i>Journal of Neuroscience Methods</i> , 2016 , 260, 26-32	3	36
77	GABAergic networks jump-start focal seizures. <i>Epilepsia</i> , 2016 , 57, 679-87	6.4	75
76	Activation of specific neuronal networks leads to different seizure onset types. <i>Annals of Neurology</i> , 2016 , 79, 354-65	9.4	58
75	Decrease of SYNGAP1 in GABAergic cells impairs inhibitory synapse connectivity, synaptic inhibition and cognitive function. <i>Nature Communications</i> , 2016 , 7, 13340	17.4	40
74	Specific imbalance of excitatory/inhibitory signaling establishes seizure onset pattern in temporal lobe epilepsy. <i>Journal of Neurophysiology</i> , 2016 , 115, 3229-37	3.2	83
73	Neurosteroids differentially modulate fast and slow interictal discharges in the hippocampal CA3 area. <i>European Journal of Neuroscience</i> , 2015 , 41, 379-89	3.5	3
72	Lacosamide modulates interictal spiking and high-frequency oscillations in a model of mesial temporal lobe epilepsy. <i>Epilepsy Research</i> , 2015 , 115, 8-16	3	34
71	Carbonic anhydrase inhibition by acetazolamide reduces in vitro epileptiform synchronization. <i>Neuropharmacology</i> , 2015 , 95, 377-87	5.5	19
70	KCC2 function modulates in vitro ictogenesis. <i>Neurobiology of Disease</i> , 2015 , 79, 51-8	7.5	47
69	Neurosteroidal modulation of in vitro epileptiform activity is enhanced in pilocarpine-treated epileptic rats. <i>Neurobiology of Disease</i> , 2015 , 78, 24-34	7.5	7
68	The anti-ictogenic effects of levetiracetam are mirrored by interictal spiking and high-frequency oscillation changes in a model of temporal lobe epilepsy. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2015 , 25, 18-25	3.2	35
67	Activity-dependent changes in excitability of perirhinal cortex networks in vitro. <i>Pflugers Archiv European Journal of Physiology</i> , 2015 , 467, 805-16	4.6	1
66	Blockade of in vitro ictogenesis by low-frequency stimulation coincides with increased epileptiform response latency. <i>Journal of Neurophysiology</i> , 2015 , 114, 21-8	3.2	8
65	Subiculum-entorhinal cortex interactions during in vitro ictogenesis. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2015 , 31, 33-40	3.2	8

64	Facilitation of epileptic activity during sleep is mediated by high amplitude slow waves. <i>Brain</i> , 2015 , 138, 1629-41	11.2	115
63	Interneuron activity leads to initiation of low-voltage fast-onset seizures. <i>Annals of Neurology</i> , 2015 , 77, 541-6	9.4	79
62	Distinct EEG seizure patterns reflect different seizure generation mechanisms. <i>Journal of Neurophysiology</i> , 2015 , 113, 2840-4	3.2	30
61	On the contribution of KCC2 and carbonic anhydrase to two types of in vitro interictal discharge. <i>Pflügers Archiv European Journal of Physiology</i> , 2015 , 467, 2325-35	4.6	1
60	Limbic networks and epileptiform synchronization: the view from the experimental side. <i>International Review of Neurobiology</i> , 2014 , 114, 63-87	4.4	9
59	Dynamics of interictal spikes and high-frequency oscillations during epileptogenesis in temporal lobe epilepsy. <i>Neurobiology of Disease</i> , 2014 , 67, 97-106	7.5	48
58	The kainic acid model of temporal lobe epilepsy. <i>Neuroscience and Biobehavioral Reviews</i> , 2013 , 37, 2887-99	9.9	275
57	Does interictal synchronization influence ictogenesis?. <i>Neuropharmacology</i> , 2013 , 69, 37-44	5.5	40
56	Two different interictal spike patterns anticipate ictal activity in vitro. <i>Neurobiology of Disease</i> , 2013 , 52, 168-76	7.5	28
55	Seizure-like discharges induced by 4-aminopyridine in the olfactory system of the in vitro isolated guinea pig brain. <i>Epilepsia</i> , 2013 , 54, 605-15	6.4	19
54	Temporal lobe epileptiform activity following systemic administration of 4-aminopyridine in rats. <i>Epilepsia</i> , 2013 , 54, 596-604	6.4	35
53	On the ictogenic properties of the piriform cortex in vitro. <i>Epilepsia</i> , 2012 , 53, 459-68	6.4	26
52	A brief history on the oscillating roles of thalamus and cortex in absence seizures. <i>Epilepsia</i> , 2012 , 53, 779-89	6.4	103
51	Body temperature estimation of a moving subject from thermographic images. <i>Machine Vision and Applications</i> , 2012 , 23, 299-311	2.8	10
50	Mechanisms of physiological and epileptic HFO generation. <i>Progress in Neurobiology</i> , 2012 , 98, 250-64	10.9	200
49	A comparison between automated detection methods of high-frequency oscillations (80-500 Hz) during seizures. <i>Journal of Neuroscience Methods</i> , 2012 , 211, 265-71	3	33
48	Cell type-specific properties of subicular GABAergic currents shape hippocampal output firing mode. <i>PLoS ONE</i> , 2012 , 7, e50241	3.7	9
47	Two seizure-onset types reveal specific patterns of high-frequency oscillations in a model of temporal lobe epilepsy. <i>Journal of Neuroscience</i> , 2012 , 32, 13264-72	6.6	101

46	Early-life stress is associated with gender-based vulnerability to epileptogenesis in rat pups. <i>PLoS ONE</i> , 2012 , 7, e42622	3.7	48
45	Pyramidal neurons are "neurogenic hubs" in the neurovascular coupling response to whisker stimulation. <i>Journal of Neuroscience</i> , 2011 , 31, 9836-47	6.6	128
44	GABAergic synchronization in the limbic system and its role in the generation of epileptiform activity. <i>Progress in Neurobiology</i> , 2011 , 95, 104-32	10.9	183
43	Involvement of inward rectifier and M-type currents in carbachol-induced epileptiform synchronization. <i>Neuropharmacology</i> , 2011 , 60, 653-61	5.5	10
42	High-frequency (80-500 Hz) oscillations and epileptogenesis in temporal lobe epilepsy. <i>Neurobiology of Disease</i> , 2011 , 42, 231-41	7.5	81
41	Perirhinal cortex hyperexcitability in pilocarpine-treated epileptic rats. <i>Hippocampus</i> , 2011 , 21, 702-13	3.5	18
40	Long-term consequences of a prolonged febrile seizure in a dual pathology model. <i>Neurobiology of Disease</i> , 2011 , 43, 312-21	7.5	28
39	Independent epileptiform discharge patterns in the olfactory and limbic areas of the in vitro isolated Guinea pig brain during 4-aminopyridine treatment. <i>Journal of Neurophysiology</i> , 2010 , 103, 2728-36	3.2	25
38	Neurosteroids and epilepsy. <i>Current Opinion in Neurology</i> , 2010 , 23, 170-6	7.1	62
37	Convulsive status epilepticus duration as determinant for epileptogenesis and interictal discharge generation in the rat limbic system. <i>Neurobiology of Disease</i> , 2010 , 40, 478-89	7.5	49
36	Synchronized gamma oscillations (30-50 Hz) in the amygdalo-hippocampal network in relation with seizure propagation and severity. <i>Neurobiology of Disease</i> , 2009 , 35, 209-18	7.5	24
35	Electrical coupling mediates tunable low-frequency oscillations and resonance in the cerebellar Golgi cell network. <i>Neuron</i> , 2009 , 61, 126-39	13.9	169
34	Lacosamide: a new approach to target voltage-gated sodium currents in epileptic disorders. <i>CNS Drugs</i> , 2009 , 23, 555-68	6.7	55
33	Proepileptic influence of a focal vascular lesion affecting entorhinal cortex-CA3 connections after status epilepticus. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008 , 67, 687-701	3.1	33
32	The pilocarpine model of temporal lobe epilepsy. <i>Journal of Neuroscience Methods</i> , 2008 , 172, 143-57	3	668
31	Measuring an Animal Body Temperature in Thermographic Video Using Particle Filter Tracking. <i>Lecture Notes in Computer Science</i> , 2008 , 1081-1091	0.9	5
30	Epileptiform synchronization in the rat insular and perirhinal cortices in vitro. <i>European Journal of Neuroscience</i> , 2007 , 26, 3571-82	3.5	22
29	Subiculum network excitability is increased in a rodent model of temporal lobe epilepsy. <i>Hippocampus</i> , 2006 , 16, 843-60	3.5	58

28	Endogenous neurosteroids modulate epileptogenesis in a model of temporal lobe epilepsy. <i>Experimental Neurology</i> , 2006 , 201, 519-24	5.7	59
27	The H current blocker ZD7288 decreases epileptiform hyperexcitability in the rat neocortex by depressing synaptic transmission. <i>Neuropharmacology</i> , 2006 , 51, 681-91	5.5	10
26	Cellular and molecular mechanisms of epilepsy in the human brain. <i>Progress in Neurobiology</i> , 2005 , 77, 166-200	10.9	141
25	Impaired activation of CA3 pyramidal neurons in the epileptic hippocampus. <i>NeuroMolecular Medicine</i> , 2005 , 7, 325-42	4.6	40
24	Rat subicular networks gate hippocampal output activity in an in vitro model of limbic seizures. <i>Journal of Physiology</i> , 2005 , 566, 885-900	3.9	34
23	Ripple activity in the dentate gyrus of dishinibited hippocampus-entorhinal cortex slices. <i>Journal of Neuroscience Research</i> , 2005 , 80, 92-103	4.4	34
22	GABA(B) receptor activation and limbic network ictogenesis. <i>Neuropharmacology</i> , 2004 , 46, 43-51	5.5	10
21	Epileptiform synchronization in the human dysplastic cortex. <i>Epileptic Disorders</i> , 2003 , 5 Suppl 2, S45-50	1.9	9
20	Limbic network interactions leading to hyperexcitability in a model of temporal lobe epilepsy. <i>Journal of Neurophysiology</i> , 2002 , 87, 634-9	3.2	50
19	Masking synchronous GABA-mediated potentials controls limbic seizures. <i>Epilepsia</i> , 2002 , 43, 1469-79	6.4	28
18	Network and pharmacological mechanisms leading to epileptiform synchronization in the limbic system in vitro. <i>Progress in Neurobiology</i> , 2002 , 68, 167-207	10.9	359
17	Brain-derived neurotrophic factor superinduction parallels anti-epileptic--neuroprotective treatment in the pilocarpine epilepsy model. <i>Journal of Neurochemistry</i> , 2001 , 76, 1814-22	6	33
16	Electrophysiology of regular firing cells in the rat perirhinal cortex. <i>Hippocampus</i> , 2001 , 11, 662-72	3.5	22
15	Network and intrinsic contributions to carbachol-induced oscillations in the rat subiculum. <i>Journal of Neurophysiology</i> , 2001 , 86, 1164-78	3.2	15
14	Topiramate depresses carbachol-induced plateau potentials in subicular bursting cells. <i>NeuroReport</i> , 2000 , 11, 75-8	1.7	13
13	CA3-released entorhinal seizures disclose dentate gyrus epileptogenicity and unmask a temporoammonic pathway. <i>Journal of Neurophysiology</i> , 2000 , 83, 1115-24	3.2	64
12	Muscarinic receptor activation induces depolarizing plateau potentials in bursting neurons of the rat subiculum. <i>Journal of Neurophysiology</i> , 1999 , 82, 2590-601	3.2	39
11	Laminar organization of epileptiform discharges in the rat entorhinal cortex in vitro. <i>Journal of Physiology</i> , 1998 , 509 (Pt 3), 785-96	3.9	51

10	Multiple actions of the novel anticonvulsant drug topiramate in the rat subiculum in vitro. <i>Brain Research</i> , 1998 , 807, 125-34	3.7	25
9	Participation of GABAA-mediated inhibition in ictal-like discharges in the rat entorhinal cortex. <i>Journal of Neurophysiology</i> , 1998 , 79, 352-60	3.2	106
8	Topiramate attenuates voltage-gated sodium currents in rat cerebellar granule cells. <i>Neuroscience Letters</i> , 1997 , 231, 123-6	3.3	182
7	CA3-driven hippocampal-entorhinal loop controls rather than sustains in vitro limbic seizures. <i>Journal of Neuroscience</i> , 1997 , 17, 9308-14	6.6	254
6	Repetitive firing and oscillatory activity of pyramidal-like bursting neurons in the rat subiculum. <i>Experimental Brain Research</i> , 1997 , 114, 507-17	2.3	33
5	In vitro electrophysiology of rat subicular bursting neurons. <i>Hippocampus</i> , 1997 , 7, 48-57	3.5	33
4	Synchronous GABA-mediated potentials and epileptiform discharges in the rat limbic system in vitro. <i>Journal of Neuroscience</i> , 1996 , 16, 3912-24	6.6	249
3	Extracellular potassium elevations in the hippocampus of rats with long-term pilocarpine seizures. <i>Neuroscience Letters</i> , 1995 , 201, 87-91	3.3	20
2	Quantitative evaluation of neuronal loss in the dorsal hippocampus in rats with long-term pilocarpine seizures. <i>Epilepsy Research</i> , 1994 , 17, 237-47	3	106
1	Epileptiform discharges and a synchronous GABAergic potential induced by 4-aminopyridine in the rat immature hippocampus. <i>Neuroscience Letters</i> , 1990 , 117, 93-8	3.3	43