

# Louis Lemieux

## 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.

61  
papers

3,434  
citations

31  
h-index

58  
g-index

66  
ext. papers

3,846  
ext. citations

5.4  
avg, IF

4.82  
L-index

#	Paper	IF	Citations
61	Safety of Intracranial Electroencephalography During Functional Electromagnetic Resonance Imaging in Humans at 1.5 Tesla Using a Head Transmit RF Coil: Histopathological and Heat-Shock Immunohistochemistry Observations.. <i>NeuroImage</i> , <b>2022</b> , 119129	7.9	1
60	fMRI-Based Effective Connectivity in Surgical Remediable Epilepsies: A Pilot Study. <i>Brain Topography</i> , <b>2021</b> , 34, 632-650	4.3	4
59	Altered Relationship Between Heart Rate Variability and fMRI-Based Functional Connectivity in People With Epilepsy. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 671890	4.1	1
58	Source analyses of axial and vestibular evoked potentials associated with brainstem-spinal reflexes show cerebellar and cortical contributions. <i>Neuroscience Letters</i> , <b>2021</b> , 757, 135960	3.3	4
57	Temperature Measurements in the Vicinity of Human Intracranial EEG Electrodes Exposed to Body-Coil RF for MRI at 1.5T. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 429	5.1	2
56	Peri-ictal hypoxia is related to extent of regional brain volume loss accompanying generalized tonic-clonic seizures. <i>Epilepsia</i> , <b>2020</b> , 61, 1570-1580	6.4	8
55	Neuroimaging of Sudden Unexpected Death in Epilepsy (SUDEP): Insights From Structural and Resting-State Functional MRI Studies. <i>Frontiers in Neurology</i> , <b>2019</b> , 10, 185	4.1	26
54	A hemodynamic network involving the insula, the cingulate, and the basal forebrain correlates with EEG synchronization phases of sleep instability. <i>Sleep</i> , <b>2019</b> , 42,	1.1	5
53	BOLD mapping of human epileptic spikes recorded during simultaneous intracranial EEG-fMRI: The impact of automated spike classification. <i>NeuroImage</i> , <b>2019</b> , 184, 981-992	7.9	9
52	The impact of mapping interictal discharges using EEG-fMRI on the epilepsy presurgical clinical decision making process: A prospective study. <i>Seizure: the Journal of the British Epilepsy Association</i> , <b>2018</b> , 61, 30-37	3.2	11
51	Fractal and Multifractal Properties of Electrographic Recordings of Human Brain Activity: Toward Its Use as a Signal Feature for Machine Learning in Clinical Applications. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1767	4.6	15
50	Simultaneous Intracranial EEG-fMRI Shows Inter-Modality Correlation in Time-Resolved Connectivity Within Normal Areas but Not Within Epileptic Regions. <i>Brain Topography</i> , <b>2017</b> , 30, 639-655	4.3	24
49	A novel scheme for the validation of an automated classification method for epileptic spikes by comparison with multiple observers. <i>Clinical Neurophysiology</i> , <b>2017</b> , 128, 1246-1254	4.3	6
48	Mapping effective connectivity in the human brain with concurrent intracranial electrical stimulation and BOLD-fMRI. <i>Journal of Neuroscience Methods</i> , <b>2017</b> , 277, 101-112	3	23
47	ICN_Atlas: Automated description and quantification of functional MRI activation patterns in the framework of intrinsic connectivity networks. <i>NeuroImage</i> , <b>2017</b> , 163, 319-341	7.9	12
46	Combined electroencephalography-functional magnetic resonance imaging and electrical source imaging improves localization of pediatric focal epilepsy. <i>Annals of Neurology</i> , <b>2017</b> , 82, 278-287	9.4	32
45	Phase-amplitude coupling and the BOLD signal: A simultaneous intracranial EEG (icEEG) - fMRI study in humans performing a finger-tapping task. <i>NeuroImage</i> , <b>2017</b> , 146, 438-451	7.9	33

44	Safety of Simultaneous Scalp or Intracranial EEG during MRI: A Review. <i>Frontiers in Physics</i> , <b>2017</b> , 5,	3.9	11
43	Dysfunctional Brain Networking among Autonomic Regulatory Structures in Temporal Lobe Epilepsy Patients at High Risk of Sudden Unexpected Death in Epilepsy. <i>Frontiers in Neurology</i> , <b>2017</b> , 8, 544	4.1	42
42	EEG-fMRI in the presurgical evaluation of temporal lobe epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2016</b> , 87, 642-9	5.5	61
41	Towards motion insensitive EEG-fMRI: Correcting motion-induced voltages and gradient artefact instability in EEG using an fMRI prospective motion correction (PMC) system. <i>NeuroImage</i> , <b>2016</b> , 138, 13-27	7.9	32
40	Optimising EEG-fMRI for Localisation of Focal Epilepsy in Children. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149048	3.7	23
39	Mapping human preictal and ictal haemodynamic networks using simultaneous intracranial EEG-fMRI. <i>NeuroImage: Clinical</i> , <b>2016</b> , 11, 486-493	5.3	15
38	A study of the electro-haemodynamic coupling using simultaneously acquired intracranial EEG and fMRI data in humans. <i>NeuroImage</i> , <b>2016</b> , 142, 371-380	7.9	18
37	Tracking slow modulations in synaptic gain using dynamic causal modelling: validation in epilepsy. <i>NeuroImage</i> , <b>2015</b> , 107, 117-126	7.9	29
36	Electrophysiological correlates of the BOLD signal for EEG-informed fMRI. <i>Human Brain Mapping</i> , <b>2015</b> , 36, 391-414	5.9	102
35	Do reflex seizures and spontaneous seizures form a continuum? - triggering factors and possible common mechanisms. <i>Seizure: the Journal of the British Epilepsy Association</i> , <b>2015</b> , 25, 72-9	3.2	23
34	Methods and utility of EEG-fMRI in epilepsy. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2015</b> , 5, 300-326	3.6	24
33	Classification of EEG abnormalities in partial epilepsy with simultaneous EEG-fMRI recordings. <i>NeuroImage</i> , <b>2014</b> , 99, 461-76	7.9	23
32	Altered FMRI connectivity dynamics in temporal lobe epilepsy might explain seizure semiology. <i>Frontiers in Neurology</i> , <b>2014</b> , 5, 175	4.1	39
31	Causality within the Epileptic Network: An EEG-fMRI Study Validated by Intracranial EEG. <i>Frontiers in Neurology</i> , <b>2013</b> , 4, 185	4.1	18
30	Networks involved in seizure initiation. A reading epilepsy case studied with EEG-fMRI and MEG. <i>Neurology</i> , <b>2012</b> , 79, 249-53	6.5	42
29	Simultaneous intracranial EEG-fMRI in humans: protocol considerations and data quality. <i>NeuroImage</i> , <b>2012</b> , 63, 301-9	7.9	53
28	Mapping preictal and ictal haemodynamic networks using video-electroencephalography and functional imaging. <i>Brain</i> , <b>2012</b> , 135, 3645-63	11.2	51
27	Simultaneous intracranial EEG and fMRI of interictal epileptic discharges in humans. <i>NeuroImage</i> , <b>2011</b> , 54, 182-90	7.9	113

26	Epileptic networks in focal cortical dysplasia revealed using electroencephalography-functional magnetic resonance imaging. <i>Annals of Neurology</i> , <b>2011</b> , 70, 822-37	9.4	105
25	EEG correlated functional MRI and postoperative outcome in focal epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2010</b> , 81, 922-7	5.5	109
24	Imaging haemodynamic changes related to seizures: comparison of EEG-based general linear model, independent component analysis of fMRI and intracranial EEG. <i>NeuroImage</i> , <b>2010</b> , 53, 196-205	7.9	64
23	Feasibility of simultaneous intracranial EEG-fMRI in humans: a safety study. <i>NeuroImage</i> , <b>2010</b> , 49, 379-90	9.9	74
22	The combination of EEG source imaging and EEG-correlated functional MRI to map epileptic networks. <i>Epilepsia</i> , <b>2010</b> , 51, 491-505	6.4	63
21	Causal hierarchy within the thalamo-cortical network in spike and wave discharges. <i>PLoS ONE</i> , <b>2009</b> , 4, e6475	3.7	116
20	Combined EEG-fMRI and tractography to visualise propagation of epileptic activity. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2008</b> , 79, 594-7	5.5	49
19	Noncanonical spike-related BOLD responses in focal epilepsy. <i>Human Brain Mapping</i> , <b>2008</b> , 29, 329-45	5.9	79
18	Safety of localizing epilepsy monitoring intracranial electroencephalograph electrodes using MRI: radiofrequency-induced heating. <i>Journal of Magnetic Resonance Imaging</i> , <b>2008</b> , 28, 1233-44	5.6	64
17	Modelling large motion events in fMRI studies of patients with epilepsy. <i>Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 894-901	3.3	184
16	Temporal lobe interictal epileptic discharges affect cerebral activity in "default mode" brain regions. <i>Human Brain Mapping</i> , <b>2007</b> , 28, 1023-32	5.9	237
15	Functional MRI with active, fully implanted, deep brain stimulation systems: safety and experimental confounds. <i>NeuroImage</i> , <b>2007</b> , 37, 508-17	7.9	88
14	Hemodynamic correlates of epileptiform discharges: an EEG-fMRI study of 63 patients with focal epilepsy. <i>Brain Research</i> , <b>2006</b> , 1088, 148-66	3.7	230
13	EEG-fMRI of idiopathic and secondarily generalized epilepsies. <i>NeuroImage</i> , <b>2006</b> , 31, 1700-10	7.9	227
12	Electroencephalography-correlated functional MR imaging studies of epileptic activity. <i>Neuroimaging Clinics of North America</i> , <b>2004</b> , 14, 487-506	3	31
11	Automatic segmentation of the brain and intracranial cerebrospinal fluid in T1-weighted volume MRI scans of the head, and its application to serial cerebral and intracranial volumetry. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 49, 872-84	4.4	62
10	Structural Image Analysis in Epilepsy. <i>Epilepsia</i> , <b>2002</b> , 43, 19-24	6.4	4
9	EEG-Correlated Functional MRI: Recent Methodologic Progress and Current Issues. <i>Epilepsia</i> , <b>2002</b> , 43, 64-68	6.4	10

8	Hippocampal and cerebellar volumetry in serially acquired MRI volume scans. <i>Magnetic Resonance Imaging</i> , <b>2000</b> , 18, 1027-33	3.3	55
7	Fast, accurate, and reproducible automatic segmentation of the brain in T1-weighted volume MRI data. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 127-35	4.4	143
6	Measurement of small inter-scan fluctuations in voxel dimensions in magnetic resonance images using registration. <i>Medical Physics</i> , <b>1998</b> , 25, 1049-54	4.4	26
5	Recording of EEG during fMRI experiments: patient safety. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 943-52	4.4	258
4	Effect of fiducial marker localization on stereotactic target coordinate calculation in CT slices and radiographs. <i>Physics in Medicine and Biology</i> , <b>1994</b> , 39, 1915-28	3.8	19
3	Voxel-based localization in frame-based and frameless stereotaxy and its accuracy. <i>Medical Physics</i> , <b>1994</b> , 21, 1301-10	4.4	36
2	A patient-to-computed-tomography image registration method based on digitally reconstructed radiographs. <i>Medical Physics</i> , <b>1994</b> , 21, 1749-60	4.4	162
1	Measurement of the mapping between intracranial EEG and fMRI recordings in the human brain		1