

Louis Lemieux

List of Publications by Citations

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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	Recording of EEG during fMRI experiments: patient safety. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 943-52	4.4	258
60	Temporal lobe interictal epileptic discharges affect cerebral activity in "default mode" brain regions. <i>Human Brain Mapping</i> , 2007 , 28, 1023-32	5.9	237
59	Hemodynamic correlates of epileptiform discharges: an EEG-fMRI study of 63 patients with focal epilepsy. <i>Brain Research</i> , 2006 , 1088, 148-66	3.7	230
58	EEG-fMRI of idiopathic and secondarily generalized epilepsies. <i>NeuroImage</i> , 2006 , 31, 1700-10	7.9	227
57	Modelling large motion events in fMRI studies of patients with epilepsy. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 894-901	3.3	184
56	A patient-to-computed-tomography image registration method based on digitally reconstructed radiographs. <i>Medical Physics</i> , 1994 , 21, 1749-60	4.4	162
55	Fast, accurate, and reproducible automatic segmentation of the brain in T1-weighted volume MRI data. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 127-35	4.4	143
54	Causal hierarchy within the thalamo-cortical network in spike and wave discharges. <i>PLoS ONE</i> , 2009 , 4, e6475	3.7	116
53	Simultaneous intracranial EEG and fMRI of interictal epileptic discharges in humans. <i>NeuroImage</i> , 2011 , 54, 182-90	7.9	113
52	EEG correlated functional MRI and postoperative outcome in focal epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010 , 81, 922-7	5.5	109
51	Epileptic networks in focal cortical dysplasia revealed using electroencephalography-functional magnetic resonance imaging. <i>Annals of Neurology</i> , 2011 , 70, 822-37	9.4	105
50	Electrophysiological correlates of the BOLD signal for EEG-informed fMRI. <i>Human Brain Mapping</i> , 2015 , 36, 391-414	5.9	102
49	Functional MRI with active, fully implanted, deep brain stimulation systems: safety and experimental confounds. <i>NeuroImage</i> , 2007 , 37, 508-17	7.9	88
48	Noncanonical spike-related BOLD responses in focal epilepsy. <i>Human Brain Mapping</i> , 2008 , 29, 329-45	5.9	79
47	Feasibility of simultaneous intracranial EEG-fMRI in humans: a safety study. <i>NeuroImage</i> , 2010 , 49, 379-90	9.9	74
46	Imaging haemodynamic changes related to seizures: comparison of EEG-based general linear model, independent component analysis of fMRI and intracranial EEG. <i>NeuroImage</i> , 2010 , 53, 196-205	7.9	64
45	Safety of localizing epilepsy monitoring intracranial electroencephalograph electrodes using MRI: radiofrequency-induced heating. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1233-44	5.6	64

44	The combination of EEG source imaging and EEG-correlated functional MRI to map epileptic networks. <i>Epilepsia</i> , 2010 , 51, 491-505	6.4	63
43	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> , 2003 , 49, 872-84	4.4	62
42	EEG-fMRI in the presurgical evaluation of temporal lobe epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016 , 87, 642-9	5.5	61
41	Hippocampal and cerebellar volumetry in serially acquired MRI volume scans. <i>Magnetic Resonance Imaging</i> , 2000 , 18, 1027-33	3.3	55
40	Simultaneous intracranial EEG-fMRI in humans: protocol considerations and data quality. <i>NeuroImage</i> , 2012 , 63, 301-9	7.9	53
39	Mapping preictal and ictal haemodynamic networks using video-electroencephalography and functional imaging. <i>Brain</i> , 2012 , 135, 3645-63	11.2	51
38	Combined EEG-fMRI and tractography to visualise propagation of epileptic activity. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2008 , 79, 594-7	5.5	49
37	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> , 2017 , 8, 544	4.1	42
36	Networks involved in seizure initiation. A reading epilepsy case studied with EEG-fMRI and MEG. <i>Neurology</i> , 2012 , 79, 249-53	6.5	42
35	Altered FMRI connectivity dynamics in temporal lobe epilepsy might explain seizure semiology. <i>Frontiers in Neurology</i> , 2014 , 5, 175	4.1	39
34	Voxel-based localization in frame-based and frameless stereotaxy and its accuracy. <i>Medical Physics</i> , 1994 , 21, 1301-10	4.4	36
33	Phase-amplitude coupling and the BOLD signal: A simultaneous intracranial EEG (icEEG) - fMRI study in humans performing a finger-tapping task. <i>NeuroImage</i> , 2017 , 146, 438-451	7.9	33
32	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> , 2016 , 138, 13-27	7.9	32
31	Combined electroencephalography-functional magnetic resonance imaging and electrical source imaging improves localization of pediatric focal epilepsy. <i>Annals of Neurology</i> , 2017 , 82, 278-287	9.4	32
30	Electroencephalography-correlated functional MR imaging studies of epileptic activity. <i>Neuroimaging Clinics of North America</i> , 2004 , 14, 487-506	3	31
29	Tracking slow modulations in synaptic gain using dynamic causal modelling: validation in epilepsy. <i>NeuroImage</i> , 2015 , 107, 117-126	7.9	29
28	Neuroimaging of Sudden Unexpected Death in Epilepsy (SUDEP): Insights From Structural and Resting-State Functional MRI Studies. <i>Frontiers in Neurology</i> , 2019 , 10, 185	4.1	26
27	Measurement of small inter-scan fluctuations in voxel dimensions in magnetic resonance images using registration. <i>Medical Physics</i> , 1998 , 25, 1049-54	4.4	26

26	Simultaneous Intracranial EEG-fMRI Shows Inter-Modality Correlation in Time-Resolved Connectivity Within Normal Areas but Not Within Epileptic Regions. <i>Brain Topography</i> , 2017 , 30, 639-655 ^{4.3}	24
25	Methods and utility of EEG-fMRI in epilepsy. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015 , 5, 300-326	24
24	Mapping effective connectivity in the human brain with concurrent intracranial electrical stimulation and BOLD-fMRI. <i>Journal of Neuroscience Methods</i> , 2017 , 277, 101-112	3 23
23	Classification of EEG abnormalities in partial epilepsy with simultaneous EEG-fMRI recordings. <i>NeuroImage</i> , 2014 , 99, 461-76	7.9 23
22	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> , 2015 , 25, 72-9	3.2 23
21	Optimising EEG-fMRI for Localisation of Focal Epilepsy in Children. <i>PLoS ONE</i> , 2016 , 11, e0149048	3.7 23
20	Effect of fiducial marker localization on stereotactic target coordinate calculation in CT slices and radiographs. <i>Physics in Medicine and Biology</i> , 1994 , 39, 1915-28	3.8 19
19	Causality within the Epileptic Network: An EEG-fMRI Study Validated by Intracranial EEG. <i>Frontiers in Neurology</i> , 2013 , 4, 185	4.1 18
18	A study of the electro-haemodynamic coupling using simultaneously acquired intracranial EEG and fMRI data in humans. <i>NeuroImage</i> , 2016 , 142, 371-380	7.9 18
17	Mapping human preictal and ictal haemodynamic networks using simultaneous intracranial EEG-fMRI. <i>NeuroImage: Clinical</i> , 2016 , 11, 486-493	5.3 15
16	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> , 2018 , 9, 1767	4.6 15
15	ICN_Atlas: Automated description and quantification of functional MRI activation patterns in the framework of intrinsic connectivity networks. <i>NeuroImage</i> , 2017 , 163, 319-341	7.9 12
14	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> , 2018 , 61, 30-37	3.2 11
13	Safety of Simultaneous Scalp or Intracranial EEG during MRI: A Review. <i>Frontiers in Physics</i> , 2017 , 5,	3.9 11
12	EEG-Correlated Functional MRI: Recent Methodologic Progress and Current Issues. <i>Epilepsia</i> , 2002 , 43, 64-68	6.4 10
11	BOLD mapping of human epileptic spikes recorded during simultaneous intracranial EEG-fMRI: The impact of automated spike classification. <i>NeuroImage</i> , 2019 , 184, 981-992	7.9 9
10	Peri-ictal hypoxia is related to extent of regional brain volume loss accompanying generalized tonic-clonic seizures. <i>Epilepsia</i> , 2020 , 61, 1570-1580	6.4 8
9	A novel scheme for the validation of an automated classification method for epileptic spikes by comparison with multiple observers. <i>Clinical Neurophysiology</i> , 2017 , 128, 1246-1254	4.3 6

8	A hemodynamic network involving the insula, the cingulate, and the basal forebrain correlates with EEG synchronization phases of sleep instability. <i>Sleep</i> , 2019 , 42,	1.1	5
7	Structural Image Analysis in Epilepsy. <i>Epilepsia</i> , 2002 , 43, 19-24	6.4	4
6	fMRI-Based Effective Connectivity in Surgical Remediable Epilepsies: A Pilot Study. <i>Brain Topography</i> , 2021 , 34, 632-650	4.3	4
5	Source analyses of axial and vestibular evoked potentials associated with brainstem-spinal reflexes show cerebellar and cortical contributions. <i>Neuroscience Letters</i> , 2021 , 757, 135960	3.3	4
4	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> , 2020 , 14, 429	5.1	2
3	Measurement of the mapping between intracranial EEG and fMRI recordings in the human brain		1
2	Altered Relationship Between Heart Rate Variability and fMRI-Based Functional Connectivity in People With Epilepsy. <i>Frontiers in Neurology</i> , 2021 , 12, 671890	4.1	1
1	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> , 2022 , 119129	7.9	1