Louis Lemieux

List of Publications by Year
in descending order

62 papers	4,164 citations	126907 33 h-index	118850 62 g-index
66 all docs	66 docs citations	66 times ranked	4004 citing authors

#	Article	IF	Citations
1	Safety of intracranial electroencephalography during functional magnetic resonance imaging in humans at 1.5 tesla using a head transmit RF coil: Histopathological and heat-shock immunohistochemistry observations. NeuroImage, 2022, 254, 119129.	4.2	3
2	fMRI-Based Effective Connectivity in Surgical Remediable Epilepsies: A Pilot Study. Brain Topography, 2021, 34, 632-650.	1.8	6
3	Altered Relationship Between Heart Rate Variability and fMRI-Based Functional Connectivity in People With Epilepsy. Frontiers in Neurology, 2021, 12, 671890.	2.4	5
4	Source analyses of axial and vestibular evoked potentials associated with brainstem-spinal reflexes show cerebellar and cortical contributions. Neuroscience Letters, 2021, 757, 135960.	2.1	11
5	Periâ€ictal hypoxia is related to extent of regional brain volume loss accompanying generalized tonicâ€clonic seizures. Epilepsia, 2020, 61, 1570-1580.	5.1	25
6	Temperature Measurements in the Vicinity of Human Intracranial EEG Electrodes Exposed to Body-Coil RF for MRI at 1.5T. Frontiers in Neuroscience, 2020, 14, 429.	2.8	5
7	Neuroimaging of Sudden Unexpected Death in Epilepsy (SUDEP): Insights From Structural and Resting-State Functional MRI Studies. Frontiers in Neurology, 2019, 10, 185.	2.4	43
8	A hemodynamic network involving the insula, the cingulate, and the basal forebrain correlates with EEG synchronization phases of sleep instability. Sleep, 2019, 42, .	1.1	11
9	BOLD mapping of human epileptic spikes recorded during simultaneous intracranial EEG-fMRI: The impact of automated spike classification. NeuroImage, 2019, 184, 981-992.	4.2	10
10	Fractal and Multifractal Properties of Electrographic Recordings of Human Brain Activity: Toward Its Use as a Signal Feature for Machine Learning in Clinical Applications. Frontiers in Physiology, 2018, 9, 1767.	2.8	38
11	The impact of mapping interictal discharges using EEG-fMRI on the epilepsy presurgical clinical decision making process: A prospective study. Seizure: the Journal of the British Epilepsy Association, 2018, 61, 30-37.	2.0	16
12	Simultaneous Intracranial EEG-fMRI Shows Inter-Modality Correlation in Time-Resolved Connectivity Within Normal Areas but Not Within Epileptic Regions. Brain Topography, 2017, 30, 639-655.	1.8	32
13	A novel scheme for the validation of an automated classification method for epileptic spikes by comparison with multiple observers. Clinical Neurophysiology, 2017, 128, 1246-1254.	1.5	10
14	Mapping effective connectivity in the human brain with concurrent intracranial electrical stimulation and BOLD-fMRI. Journal of Neuroscience Methods, 2017, 277, 101-112.	2.5	39
15	ICN_Atlas: Automated description and quantification of functional MRI activation patterns in the framework of intrinsic connectivity networks. NeuroImage, 2017, 163, 319-341.	4.2	22
16	Combined electroencephalographyâ€“functional magnetic resonance imaging and electrical source imaging improves localization of pediatric focal epilepsy. Annals of Neurology, 2017, 82, 278-287.	5.3	45
17	Phaseâ€“amplitude coupling and the BOLD signal: A simultaneous intracranial EEG (icEEG) - fMRI study in humans performing a finger-tapping task. NeuroImage, 2017, 146, 438-451.	4.2	40
18	Safety of Simultaneous Scalp or Intracranial EEG during MRI: A Review. Frontiers in Physics, 2017, 5, .	2.1	13

#	Article	IF	Citations
19	Dysfunctional Brain Networking among Autonomic Regulatory Structures in Temporal Lobe Epilepsy Patients at High Risk of Sudden Unexpected Death in Epilepsy. Frontiers in Neurology, 2017, 8, 544.	2.4	69
20	Mapping human preictal and ictal haemodynamic networks using simultaneous intracranial EEG-fMRI. NeuroImage: Clinical, 2016, 11, 486-493.	2.7	20
21	A study of the electro-haemodynamic coupling using simultaneously acquired intracranial EEG and fMRI data in humans. NeuroImage, 2016, 142, 371-380.	4.2	20
22	Towards motion insensitive EEG-fMRI: Correcting motion-induced voltages and gradient artefact instability in EEG using an fMRI prospective motion correction (PMC) system. NeuroImage, 2016, 138, 13-27.	4.2	35
23	EEG-fMRI in the presurgical evaluation of temporal lobe epilepsy. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, 642-649.	1.9	69
24	Optimising EEG-fMRI for Localisation of Focal Epilepsy in Children. PLoS ONE, 2016, 11, e0149048.	2.5	32
25	Do reflex seizures and spontaneous seizures form a continuum? â€“ Triggering factors and possible common mechanisms. Seizure: the Journal of the British Epilepsy Association, 2015, 25, 72-79.	2.0	26
26	Tracking slow modulations in synaptic gain using dynamic causal modelling: Validation in epilepsy. NeuroImage, 2015, 107, 117-126.	4.2	43
27	Electrophysiological correlates of the BOLD signal for EEG-informed fMRI. Human Brain Mapping, 2015, 36, 391-414.	3.6	137
28	Methods and utility of EEG-fMRI in epilepsy. Quantitative Imaging in Medicine and Surgery, 2015, 5, 300-12.	2.0	33
29	Altered fMRI Connectivity Dynamics in Temporal Lobe Epilepsy Might Explain Seizure Semiology. Frontiers in Neurology, 2014, 5, 175.	2.4	51
30	Human epileptic seizures mapped using functional MRI and EEG recorded simultaneously. , 2014, , .		0
31	Classification of EEG abnormalities in partial epilepsy with simultaneous EEGâ€“fMRI recordings. NeuroImage, 2014, 99, 461-476.	4.2	29
32	Causality within the Epileptic Network: An EEG-fMRI Study Validated by Intracranial EEG. Frontiers in Neurology, 2013, 4, 185.	2.4	24
33	Mapping preictal and ictal haemodynamic networks using video-electroencephalography and functional imaging. Brain, 2012, 135, 3645-3663.	7.6	61
34	Networks involved in seizure initiation. Neurology, 2012, 79, 249-253.	1.1	48
35	Simultaneous intracranial EEGâ€“fMRI in humans: Protocol considerations and data quality. NeuroImage, 2012, 63, 301-309.	4.2	62
36	Simultaneous intracranial EEG and fMRI of interictal epileptic discharges in humans. NeuroImage, 2011, 54, 182-190.	4.2	124

#	Article	IF	Citations
37	Epileptic networks in focal cortical dysplasia revealed using electroencephalographyâ€“functional magnetic resonance imaging. Annals of Neurology, 2011, 70, 822-837.	5.3	116
38	The combination of EEG Source Imaging and EEGâ€correlated functional MRI to map epileptic networks. Epilepsia, 2010, 51, 491-505.	5.1	75
39	EEG correlated functional MRI and postoperative outcome in focal epilepsy. Journal of Neurology, Neurosurgery and Psychiatry, 2010, 81, 922-927.	1.9	122
40	Imaging haemodynamic changes related to seizures: Comparison of EEG-based general linear model, independent component analysis of fMRI and intracranial EEG. NeuroImage, 2010, 53, 196-205.	4.2	75
41	Feasibility of simultaneous intracranial EEG-fMRI in humans: A safety study. NeuroImage, 2010, 49, 379-390.	4.2	85
42	Causal Hierarchy within the Thalamo-Cortical Network in Spike and Wave Discharges. PLoS ONE, 2009, 4, e6475.	2.5	141
43	Safety of localizing epilepsy monitoring intracranial electroencephalograph electrodes using MRI: Radiofrequencyâ€induced heating. Journal of Magnetic Resonance Imaging, 2008, 28, 1233-1244.	3.4	74
44	Combined EEG-fMRI and tractography to visualise propagation of epileptic activity. Journal of Neurology, Neurosurgery and Psychiatry, 2008, 79, 594-597.	1.9	61
45	Temporal lobe interictal epileptic discharges affect cerebral activity in â€œdefault modeâ€•brain regions. Human Brain Mapping, 2007, 28, 1023-1032.	3.6	281
46	Functional MRI with active, fully implanted, deep brain stimulation systems: Safety and experimental confounds. NeuroImage, 2007, 37, 508-517.	4.2	103
47	Noncanonical spike-related BOLD responses in focal epilepsy. Human Brain Mapping, 2007, 29, 329-345.	3.6	91
48	Modelling large motion events in fMRI studies of patients with epilepsy. Magnetic Resonance Imaging, 2007, 25, 894-901.	1.8	222
49	EEGâ€“fMRI of idiopathic and secondarily generalized epilepsies. NeuroImage, 2006, 31, 1700-1710.	4.2	254
50	Hemodynamic correlates of epileptiform discharges: An EEG-fMRI study of 63 patients with focal epilepsy. Brain Research, 2006, 1088, 148-166.	2.2	255
51	Electroencephalography-correlated functional MR imaging studies of epileptic activity. Neuroimaging Clinics of North America, 2004, 14, 487-506.	1.0	36
52	Automatic segmentation of the brain and intracranial cerebrospinal fluid inT1-weighted volume MRI scans of the head, and its application to serial cerebral and intracranial volumetry. Magnetic Resonance in Medicine, 2003, 49, 872-884.	3.0	71
53	Structural Image Analysis in Epilepsy. Epilepsia, 2002, 43, 19-24.	5.1	4
54	EEG-Correlated Functional MRI: Recent Methodologic Progress and Current Issues. Epilepsia, 2002, 43, 64-68.	5.1	12

#	Article	IF	Citations
55	Hippocampal and cerebellar volumetry in serially acquired MRI volume scans. Magnetic Resonance Imaging, 2000, 18, 1027-1033.	1.8	59
56	Fast, accurate, and reproducible automatic segmentation of the brain in T1-weighted volume MRI data. Magnetic Resonance in Medicine, 1999, 42, 127-135.	3.0	178
57	Measurement of small inter-scan fluctuations in voxel dimensions in magnetic resonance images using registration. Medical Physics, 1998, 25, 1049-1054.	3.0	29
58	Recording of EEG during fMRI experiments: Patient safety. Magnetic Resonance in Medicine, 1997, 38, 943-952.	3.0	284
59	Effect of fiducial marker localization on stereotactic target coordinate calculation in CT slices and radiographs. Physics in Medicine and Biology, 1994, 39, 1915-1928.	3.0	27
60	Voxel-based localization in frame-based and frameless stereotaxy and its accuracy. Medical Physics, 1994, 21, 1301-1310.	3.0	54
61	A patient-to-computed-tomography image registration method based on digitally reconstructed radiographs. Medical Physics, 1994, 21, 1749-1760.	3.0	194
62	Evaluating the Safety of Simultaneous Intracranial Electroencephalography and Functional Magnetic Resonance Imaging Acquisition Using a 3 Tesla Magnetic Resonance Imaging Scanner. Frontiers in Neuroscience, 0, 16, .	2.8	0