

Louis Lemieux

List of Publications by Year in descending order

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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	Recording of EEG during fMRI experiments: Patient safety. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 943-952.	3.0	284
2	Temporal lobe interictal epileptic discharges affect cerebral activity in "default mode" brain regions. <i>Human Brain Mapping</i> , 2007, 28, 1023-1032.	3.6	281
3	Hemodynamic correlates of epileptiform discharges: An EEG-fMRI study of 63 patients with focal epilepsy. <i>Brain Research</i> , 2006, 1088, 148-166.	2.2	255
4	EEG-fMRI of idiopathic and secondarily generalized epilepsies. <i>NeuroImage</i> , 2006, 31, 1700-1710.	4.2	254
5	Modelling large motion events in fMRI studies of patients with epilepsy. <i>Magnetic Resonance Imaging</i> , 2007, 25, 894-901.	1.8	222
6	A patient-to-computed-tomography image registration method based on digitally reconstructed radiographs. <i>Medical Physics</i> , 1994, 21, 1749-1760.	3.0	194
7	Fast, accurate, and reproducible automatic segmentation of the brain in T1-weighted volume MRI data. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 127-135.	3.0	178
8	Causal Hierarchy within the Thalamo-Cortical Network in Spike and Wave Discharges. <i>PLoS ONE</i> , 2009, 4, e6475.	2.5	141
9	Electrophysiological correlates of the BOLD signal for EEG-informed fMRI. <i>Human Brain Mapping</i> , 2015, 36, 391-414.	3.6	137
10	Simultaneous intracranial EEG and fMRI of interictal epileptic discharges in humans. <i>NeuroImage</i> , 2011, 54, 182-190.	4.2	124
11	EEG correlated functional MRI and postoperative outcome in focal epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, 922-927.	1.9	122
12	Epileptic networks in focal cortical dysplasia revealed using electroencephalography-functional magnetic resonance imaging. <i>Annals of Neurology</i> , 2011, 70, 822-837.	5.3	116
13	Functional MRI with active, fully implanted, deep brain stimulation systems: Safety and experimental confounds. <i>NeuroImage</i> , 2007, 37, 508-517.	4.2	103
14	Noncanonical spike-related BOLD responses in focal epilepsy. <i>Human Brain Mapping</i> , 2007, 29, 329-345.	3.6	91
15	Feasibility of simultaneous intracranial EEG-fMRI in humans: A safety study. <i>NeuroImage</i> , 2010, 49, 379-390.	4.2	85
16	The combination of EEG Source Imaging and EEG-correlated functional MRI to map epileptic networks. <i>Epilepsia</i> , 2010, 51, 491-505.	5.1	75
17	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.	4.2	75
18	Safety of localizing epilepsy monitoring intracranial electroencephalograph electrodes using MRI: Radiofrequency-induced heating. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1233-1244.	3.4	74

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19	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, 872-884.	3.0	71
20	EEG-fMRI in the presurgical evaluation of temporal lobe epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 642-649.	1.9	69
21	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.	2.4	69
22	Simultaneous intracranial EEG-fMRI in humans: Protocol considerations and data quality. <i>NeuroImage</i> , 2012, 63, 301-309.	4.2	62
23	Combined EEG-fMRI and tractography to visualise propagation of epileptic activity. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2008, 79, 594-597.	1.9	61
24	Mapping preictal and ictal haemodynamic networks using video-electroencephalography and functional imaging. <i>Brain</i> , 2012, 135, 3645-3663.	7.6	61
25	Hippocampal and cerebellar volumetry in serially acquired MRI volume scans. <i>Magnetic Resonance Imaging</i> , 2000, 18, 1027-1033.	1.8	59
26	Voxel-based localization in frame-based and frameless stereotaxy and its accuracy. <i>Medical Physics</i> , 1994, 21, 1301-1310.	3.0	54
27	Altered fMRI Connectivity Dynamics in Temporal Lobe Epilepsy Might Explain Seizure Semiology. <i>Frontiers in Neurology</i> , 2014, 5, 175.	2.4	51
28	Networks involved in seizure initiation. <i>Neurology</i> , 2012, 79, 249-253.	1.1	48
29	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.	5.3	45
30	Tracking slow modulations in synaptic gain using dynamic causal modelling: Validation in epilepsy. <i>NeuroImage</i> , 2015, 107, 117-126.	4.2	43
31	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.	2.4	43
32	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.	4.2	40
33	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.	2.5	39
34	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.	2.8	38
35	Electroencephalography-correlated functional MR imaging studies of epileptic activity. <i>Neuroimaging Clinics of North America</i> , 2004, 14, 487-506.	1.0	36
36	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.	4.2	35

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37	Methods and utility of EEG-fMRI in epilepsy. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 300-12.	2.0	33
38	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.	1.8	32
39	Optimising EEG-fMRI for Localisation of Focal Epilepsy in Children. <i>PLoS ONE</i> , 2016, 11, e0149048.	2.5	32
40	Measurement of small inter-scan fluctuations in voxel dimensions in magnetic resonance images using registration. <i>Medical Physics</i> , 1998, 25, 1049-1054.	3.0	29
41	Classification of EEG abnormalities in partial epilepsy with simultaneous EEG-fMRI recordings. <i>NeuroImage</i> , 2014, 99, 461-476.	4.2	29
42	Effect of fiducial marker localization on stereotactic target coordinate calculation in CT slices and radiographs. <i>Physics in Medicine and Biology</i> , 1994, 39, 1915-1928.	3.0	27
43	Do reflex seizures and spontaneous seizures form a continuum? â€“ Triggering factors and possible common mechanisms. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2015, 25, 72-79.	2.0	26
44	Peri-ictal hypoxia is related to extent of regional brain volume loss accompanying generalized tonic-clonic seizures. <i>Epilepsia</i> , 2020, 61, 1570-1580.	5.1	25
45	Causality within the Epileptic Network: An EEG-fMRI Study Validated by Intracranial EEG. <i>Frontiers in Neurology</i> , 2013, 4, 185.	2.4	24
46	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.	4.2	22
47	Mapping human preictal and ictal haemodynamic networks using simultaneous intracranial EEG-fMRI. <i>NeuroImage: Clinical</i> , 2016, 11, 486-493.	2.7	20
48	A study of the electro-haemodynamic coupling using simultaneously acquired intracranial EEG and fMRI data in humans. <i>NeuroImage</i> , 2016, 142, 371-380.	4.2	20
49	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.	2.0	16
50	Safety of Simultaneous Scalp or Intracranial EEG during MRI: A Review. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	13
51	EEG-Correlated Functional MRI: Recent Methodologic Progress and Current Issues. <i>Epilepsia</i> , 2002, 43, 64-68.	5.1	12
52	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	11
53	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.	2.1	11
54	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.	1.5	10

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55	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.	4.2	10
56	fMRI-Based Effective Connectivity in Surgical Remediable Epilepsies: A Pilot Study. <i>Brain Topography</i> , 2021, 34, 632-650.	1.8	6
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> , 2020, 14, 429.	2.8	5
58	Altered Relationship Between Heart Rate Variability and fMRI-Based Functional Connectivity in People With Epilepsy. <i>Frontiers in Neurology</i> , 2021, 12, 671890.	2.4	5
59	Structural Image Analysis in Epilepsy. <i>Epilepsia</i> , 2002, 43, 19-24.	5.1	4
60	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. <i>NeuroImage</i> , 2022, 254, 119129.	4.2	3
61	Human epileptic seizures mapped using functional MRI and EEG recorded simultaneously. , 2014, , .		0
62	Evaluating the Safety of Simultaneous Intracranial Electroencephalography and Functional Magnetic Resonance Imaging Acquisition Using a 3 Tesla Magnetic Resonance Imaging Scanner. <i>Frontiers in Neuroscience</i> , 0, 16, .	2.8	0