

Jean-Jacques Lemaire

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

2,516
citations

218677

26
h-index

223800

46
g-index

119
all docs

119
docs citations

119
times ranked

3183
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural correlates of consciousness and related disorders: From phenotypic descriptors of behavioral and relative consciousness to cortico-subcortical circuitry. <i>Neurochirurgie</i> , 2022, 68, 212-222.	1.2	6
2	A Minireview on Brain Models Simulating Geometrical, Physical, and Biochemical Properties of the Human Brain. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 818201.	4.1	2
3	DTI Abnormalities Related to Glioblastoma: A Prospective Comparative Study with Metastasis and Healthy Subjects. <i>Current Oncology</i> , 2022, 29, 2823-2834.	2.2	1
4	MRI maps, segregation, and white matter connectivity of the human hypothalamus in health. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2021, 179, 87-94.	1.8	0
5	Disrupted Pallido-Thalamo-Cortical Functional Connectivity in Chronic Disorders of Consciousness. <i>Brain Sciences</i> , 2021, 11, 356.	2.3	7
6	Early Deformation of Deep Brain Stimulation Electrodes Following Surgical Implantation: Intracranial, Brain, and Electrode Mechanics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 657875.	4.1	6
7	Preoperative stereotactic radiosurgery for brain metastases: the STEP study protocol for a multicentre, prospective, phase-II trial. <i>BMC Cancer</i> , 2021, 21, 864.	2.6	6
8	Risk-Taking Behaviors of Adult Bedridden Patients in Neurosurgery: What Could/Should We Do?. <i>Frontiers in Medicine</i> , 2021, 8, 676538.	2.6	1
9	Functional and dysfunctional impulsivities changes after subthalamic nucleus-deep brain stimulation in Parkinson disease. <i>Neurochirurgie</i> , 2021, 67, 420-426.	1.2	1
10	Atlas Optimization for Deep Brain Stimulation. <i>IFMBE Proceedings</i> , 2021, , 130-142.	0.3	0
11	Patterns of Failure After Linear Accelerator Radiosurgery for Cerebral Arteriovenous Malformations. <i>World Neurosurgery</i> , 2020, 136, e141-e148.	1.3	0
12	3D Exploration of the Brainstem in 50-Micron Resolution MRI. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 40.	1.7	13
13	Neural correlates of rehabilitation program with robot-assisted intensive therapy in one case of Holmes tremor. <i>Annals of Physical and Rehabilitation Medicine</i> , 2020, 64, 101411.	2.3	1
14	Challenging foreign body surgery: residual needlefish jaws. <i>British Journal of Neurosurgery</i> , 2020, , 1-3.	0.8	0
15	Postoperative empyema following chronic subdural hematoma surgery: Clinically based medicine. <i>Neurochirurgie</i> , 2020, 66, 365-368.	1.2	3
16	Assessment of Maturational Changes in White Matter Anisotropy and Volume in Children: A DTI Study. <i>American Journal of Neuroradiology</i> , 2020, 41, 1726-1732.	2.4	1
17	Anatomical brain structures normalization for deep brain stimulation in movement disorders. <i>NeuroImage: Clinical</i> , 2020, 27, 102271.	2.7	23
18	Long-Term Outcomes After Linac Radiosurgery for Benign Meningiomas. <i>Clinical Oncology</i> , 2020, 32, 452-458.	1.4	6

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19	Stimulation maps: visualization of results of quantitative intraoperative testing for deep brain stimulation surgery. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 771-784.	2.8	6
20	Stereotactic Radiosurgery for Vestibular Schwannomas: Reducing Toxicity With 11 Gy as the Marginal Prescribed Dose. <i>Frontiers in Oncology</i> , 2020, 10, 598841.	2.8	10
21	Methodology for the selection of a smart material as actuator in neurosurgical robotics. <i>Scientific Journal of the Ternopil National Technical University</i> , 2020, 100, 5-10.	0.3	1
22	MRI Atlas of the Human Deep Brain. <i>Frontiers in Neurology</i> , 2019, 10, 851.	2.4	8
23	A rare complication of flow diverter: delayed migration causing aneurysm expansion and brainstem compression. <i>British Journal of Neurosurgery</i> , 2019, , 1-4.	0.8	5
24	Pulse generator battery life in deep brain stimulation: out with the old in with the less durable?. <i>Acta Neurochirurgica</i> , 2019, 161, 2043-2046.	1.7	6
25	Fractionated radiotherapy and radiosurgery of intracranial meningiomas. <i>Neurochirurgie</i> , 2018, 64, 29-36.	1.2	15
26	Inter-individual variations and hemispheric asymmetries in structural connectivity patterns of the inferior fronto-occipital fascicle: a diffusion tensor imaging tractography study. <i>Surgical and Radiologic Anatomy</i> , 2018, 40, 129-137.	1.2	6
27	Analysis of adverse effects of stimulation during DBS surgery by patient-specific FEM simulations. , 2018, 2018, 2222-2225.		1
28	Deep brain stimulation in five patients with severe disorders of consciousness. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 1372-1384.	3.7	43
29	Brain Diffusion Imaging and Tractography to Distinguish Clinical Severity of Human PLP1-Related Disorders. <i>Developmental Neuroscience</i> , 2018, 40, 301-311.	2.0	5
30	Super-resolution in Clinical Conditions*: Deep Brain Stimulation Case Study. <i>Fundamenta Informaticae</i> , 2018, 163, 41-62.	0.4	0
31	Second course of stereotactic radiosurgery for locally recurrent brain metastases: Safety and efficacy. <i>PLoS ONE</i> , 2018, 13, e0195608.	2.5	40
32	Anatomical predictors of cognitive decline after subthalamic stimulation in Parkinson's disease. <i>Brain Structure and Function</i> , 2018, 223, 3063-3072.	2.3	11
33	fMRI study of graduated emotional charge for detection of covert activity using passive listening to narratives. <i>Neuroscience</i> , 2017, 349, 291-302.	2.3	2
34	A novel assistive method for rigidity evaluation during deep brain stimulation surgery using acceleration sensors. <i>Journal of Neurosurgery</i> , 2017, 127, 602-612.	1.6	10
35	Intraoperative acceleration measurements to quantify improvement in tremor during deep brain stimulation surgery. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 845-858.	2.8	15
36	Patient-Specific Electric Field Simulations and Acceleration Measurements for Objective Analysis of Intraoperative Stimulation Tests in the Thalamus. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 577.	2.0	17

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37	Human Foramen Magnum Area and Posterior Cranial Fossa Volume Growth in Relation to Cranial Base Synchondrosis Closure in the Course of Child Development. <i>Neurosurgery</i> , 2016, 79, 722-735.	1.1	20
38	Time-course of myelination and atrophy on cerebral imaging in 35 patients with PLP-related disorders. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 706-713.	2.1	20
39	Personalized mapping of the deep brain with a white matter attenuated inversion recovery (WAIR) sequence at 1.5-tesla: Experience based on a series of 156 patients. <i>Neurochirurgie</i> , 2016, 62, 183-189.	1.2	12
40	Combined DTI Tractography and Functional MRI Study of the Language Connectome in Healthy Volunteers: Extensive Mapping of White Matter Fascicles and Cortical Activations. <i>PLoS ONE</i> , 2016, 11, e0152614.	2.5	47
41	Subthalamus stimulation in Parkinson disease: Accounting for the bilaterality of contacts. , 2016, 7, 837.		3
42	Use of quantitative tremor evaluation to enhance target selection during deep brain stimulation surgery for essential tremor. <i>Current Directions in Biomedical Engineering</i> , 2015, 1, 488-492.	0.4	1
43	Incidence and survival of childhood central nervous system tumors: A report of the regional registry of childhood cancers in Auvergne-Limousin. <i>Neurochirurgie</i> , 2015, 61, 237-243.	1.2	3
44	Emergence of restless legs syndrome after subthalamic stimulation in Parkinson's disease: a dopaminergic overstimulation?. <i>Sleep Medicine</i> , 2015, 16, 583-588.	1.6	33
45	Related Circuitry and Synaptic Connectivity in Psychiatric Disorders. , 2015, , 1-20.		0
46	Electrical modulation of neuronal networks in brain-injured patients with disorders of consciousness: A systematic review. <i>Annales Francaises D'Anesthesie Et De Reanimation</i> , 2014, 33, 88-97.	1.4	21
47	Neuromodulation for Eating Disorders. <i>Neurosurgery Clinics of North America</i> , 2014, 25, 147-157.	1.7	11
48	Motor cortex stimulation does not improve dystonia secondary to a focal basal ganglia lesion. <i>Neurology</i> , 2014, 82, 156-162.	1.1	4
49	New insights into the functional significance of the frontal aslant tract: An anatomofunctional study using intraoperative electrical stimulations combined with diffusion tensor imaging-based fiber tracking. <i>British Journal of Neurosurgery</i> , 2014, 28, 685-687.	0.8	59
50	SCO-Spondin Derived Peptide NX210 Induces Neuroprotection In Vitro and Promotes Fiber Regrowth and Functional Recovery after Spinal Cord Injury. <i>PLoS ONE</i> , 2014, 9, e93179.	2.5	21
51	Intraoperative visualisation of language fascicles by diffusion tensor imaging-based tractography in glioma surgery. <i>Acta Neurochirurgica</i> , 2013, 155, 437-448.	1.7	34
52	Neuroimaging of patients with disorders of consciousness: from bench to bedside?. <i>Future Neurology</i> , 2013, 8, 601-603.	0.5	0
53	Central pain modulation after subthalamic nucleus stimulation. <i>Neurology</i> , 2013, 81, 633-640.	1.1	72
54	Extended Broca's Area in the Functional Connectome of Language in Adults: Combined Cortical and Subcortical Single-Subject Analysis Using fMRI and DTI Tractography. <i>Brain Topography</i> , 2013, 26, 428-441.	1.8	51

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55	Deep Brain Stimulation of the Subthalamic Nucleus Regulates Postabsorptive Glucose Metabolism in Patients With Parkinson's Disease. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, E1050-E1054.	3.6	20
56	Maps of the adult human hypothalamus. , 2013, 4, 156.		34
57	A method to quantitatively evaluate changes in tremor during deep brain stimulation surgery. , 2013, , .		3
58	Intraoperative optical flow based tremor evaluation - a feasibility study. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.8	1
59	Symptomatic Treatment of Memory Decline in Alzheimer's Disease by Deep Brain Stimulation: A Feasibility Study. <i>Journal of Alzheimer's Disease</i> , 2013, 34, 315-323.	2.6	88
60	Using acceleration sensors to quantify symptoms during deep brain stimulation surgery. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.8	2
61	Improved Dexterity after Chronic Electrical Stimulation of the Motor Cortex for Central Pain: A Special Relevance for Thalamic Syndrome. <i>Stereotactic and Functional Neurosurgery</i> , 2012, 90, 370-378.	1.5	3
62	Quantitative rigidity evaluation during deep brain stimulation surgery - a preliminary study. <i>Biomedizinische Technik</i> , 2012, 57, .	0.8	0
63	Let live or let die after traumatic coma. <i>Neurology: Clinical Practice</i> , 2012, 2, 24-32.	1.6	11
64	Direct stereotactic targeting of the ventrointermediate nucleus of the thalamus based on anatomic 1.5-T MRI mapping with a white matter attenuated inversion recovery (WAIR) sequence. <i>Brain Stimulation</i> , 2012, 5, 625-633.	1.6	66
65	The combined effect of subthalamic nuclei deep brain stimulation and l-dopa increases emotion recognition in Parkinson's disease. <i>Neuropsychologia</i> , 2012, 50, 2869-2879.	1.6	22
66	Influence of heterogeneous and anisotropic tissue conductivity on electric field distribution in deep brain stimulation. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 23-32.	2.8	54
67	Body weight gain and deep brain stimulation. <i>Journal of the Neurological Sciences</i> , 2011, 310, 267-270.	0.6	46
68	Does deep brain stimulation of the subthalamic nucleus induce metabolic syndrome in Parkinson's disease?. <i>European E-journal of Clinical Nutrition and Metabolism</i> , 2011, 6, e126-e130.	0.4	8
69	White matter anatomy of the human deep brain revisited with high resolution DTI fibre tracking. <i>Neurochirurgie</i> , 2011, 57, 52-67.	1.2	23
70	White matter connectivity of human hypothalamus. <i>Brain Research</i> , 2011, 1371, 43-64.	2.2	76
71	Contact dependent reproducible hypomania induced by deep brain stimulation in Parkinson's disease: clinical, anatomical and functional imaging study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2011, 82, 607-614.	1.9	89
72	Anatomy of the Human Thalamus Based on Spontaneous Contrast and Microscopic Voxels in High-Field Magnetic Resonance Imaging. <i>Operative Neurosurgery</i> , 2010, 66, ons161-ons172.	0.8	33

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73	Fabrication of a conformal ring-annular ultrasound array. Proceedings of SPIE, 2010, , .	0.8	3
74	Anatomical location of effective deep brain stimulation electrodes in chronic cluster headache. Brain, 2010, 133, 1214-1223.	7.6	110
75	Subthalamic Nucleus Location: Relationships between Stereotactic AC-PC-Based Diagrams and MRI Anatomy-Based Contours. Stereotactic and Functional Neurosurgery, 2009, 87, 337-347.	1.5	17
76	Potential applications of medical and non-medical robots for neurosurgical applications. Minimally Invasive Therapy and Allied Technologies, 2009, 18, 193-216.	1.2	6
77	Contact position analysis of deep brain stimulation electrodes on post-operative CT images. Acta Neurochirurgica, 2009, 151, 823-829.	1.7	51
78	New electrophysiological mapping combined with MRI in parkinsonianâ€™s subthalamic region. European Journal of Neuroscience, 2009, 29, 1627-1633.	2.6	14
79	Postoperative control in deep brain stimulation of the subthalamic region: the contact membership concept. International Journal of Computer Assisted Radiology and Surgery, 2008, 3, 69-77.	2.8	5
80	Bilateral Deep Brain Stimulation of the Globus Pallidus to Treat Tardive Dyskinesia. Archives of General Psychiatry, 2007, 64, 170.	12.3	178
81	Assistance to neurosurgical planning: using a fuzzy spatial graph model of the brain for locating anatomical targets in MRI. , 2007, , .		0
82	Brain mapping in stereotactic surgery: A brief overview from the probabilistic targeting to the patient-based anatomic mapping. NeuroImage, 2007, 37, S109-S115.	4.2	54
83	MRI anatomical mapping and direct stereotactic targeting in the subthalamic region: functional and anatomical correspondence in Parkinsonâ€™s disease. International Journal of Computer Assisted Radiology and Surgery, 2007, 2, 75-85.	2.8	24
84	Analysis and Visualization of Images Overlapping: Automated Versus Expert Anatomical Mapping in Deep Brain Stimulation Targeting. Lecture Notes in Computer Science, 2007, , 137-151.	1.3	0
85	Cystemustine in recurrent high grade glioma. Journal of Neuro-Oncology, 2006, 79, 33-37.	2.9	8
86	Assistance to Planning in Deep Brain Stimulation: Data Fusion Method for Locating Anatomical Targets in MRI. , 2006, 2006, 144-7.		5
87	Data Fusion and Fuzzy Spatial Relationships for Locating Deepâ€™Brainâ€™Stimulation Targets in Magnetic Resonance Images. Lecture Notes in Computer Science, 2006, , 909-919.	1.3	6
88	High-dose BCNU followed by autologous hematopoietic stem cell transplantation in supratentorial high-grade malignant gliomas: a retrospective analysis of 114 patients. Bone Marrow Transplantation, 2003, 31, 559-564.	2.4	28
89	Long-Term follow-up of globus pallidus chronic stimulation in advanced Parkinson's disease. Movement Disorders, 2002, 17, 803-807.	3.9	66
90	Slow pressure waves in the cranial enclosure. Acta Neurochirurgica, 2002, 144, 243-254.	1.7	47

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91	Interleukin-6 overexpression as a marker of malignancy in human gliomas. Journal of Neurosurgery, 2001, 94, 97-101.	1.6	109
92	Segmentation of the Subthalamic Nucleus in MR Images Using Information Fusion " A Preliminary Study for a Computed-Aided Surgery of Parkinson.s Disease. Lecture Notes in Computer Science, 2001, , 1183-1184.	1.3	4
93	Middle-ear influence on otoacoustic emissions. II: Contributions of posture and intracranial pressure. Hearing Research, 2000, 140, 202-211.	2.0	53
94	Direct Stereotactic MRI Location in the Globus Pallidus for Chronic Stimulation in Parkinson's Disease. Acta Neurochirurgica, 1999, 141, 759-766.	1.7	34
95	O6-methylguanine-DNA methyltransferase gene(MGMT) expression in human glioblastomas in relation to patient characteristics and p53 accumulation. , 1999, 84, 416-420.		54
96	Otoacoustic emissions: a new tool for monitoring intracranial pressure changes through stapes displacements. Hearing Research, 1996, 94, 125-139.	2.0	78
97	Low grade supratentorial astrocytomas. Management and prognostic factors. Cancer, 1994, 73, 1937-1945.	4.1	181
98	A computer software for frequential analysis of slow intracranial pressure waves. Computer Methods and Programs in Biomedicine, 1994, 42, 1-14.	4.7	17