Jean-Jacques Lemaire

List of Publications by Year
in descending order

98	2,516	218677	223800
papers	citations	26 h-index	46 g-index

119	119	119	3183
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low grade supratentorial astrocytomas. Management and prognostic factors. Cancer, 1994, 73, 1937-1945.	4.1	181
2	Bilateral Deep Brain Stimulation of the Globus Pallidus to Treat Tardive Dyskinesia. Archives of General Psychiatry, 2007, 64, 170.	12.3	178
3	Anatomical location of effective deep brain stimulation electrodes in chronic cluster headache. Brain, 2010, 133, 1214-1223.	7.6	110
4	Interleukin-6 overexpression as a marker of malignancy in human gliomas. Journal of Neurosurgery, 2001, 94, 97-101.	1.6	109
5	Contact dependent reproducible hypomania induced by deep brain stimulation in Parkinson's disease: clinical, anatomical and functional imaging study. Journal of Neurology, Neurosurgery and Psychiatry, 2011, 82, 607-614.	1.9	89
6	Symptomatic Treatment of Memory Decline in Alzheimer's Disease by Deep Brain Stimulation: A Feasibility Study. Journal of Alzheimer's Disease, 2013, 34, 315-323.	2.6	88
7	Otoacoustic emissions: a new tool for monitoring intracranial pressure changes through stapes displacements. Hearing Research, 1996, 94, 125-139.	2.0	78
8	White matter connectivity of human hypothalamus. Brain Research, 2011, 1371, 43-64.	2.2	76
9	Central pain modulation after subthalamic nucleus stimulation. Neurology, 2013, 81, 633-640.	1.1	72
10	Long-Term follow-up of globus pallidus chronic stimulation in advanced Parkinson's disease. Movement Disorders, 2002, 17, 803-807.	3.9	66
11	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. Brain Stimulation, 2012, 5, 625-633.	1.6	66
12	New insights into the functional significance of the frontal aslant tract: An anatomoâ€“functional study using intraoperative electrical stimulations combined with diffusion tensor imaging-based fiber tracking. British Journal of Neurosurgery, 2014, 28, 685-687.	0.8	59
13	O6-methylguanine-DNA methyltransferase gene(MGMT) expression in human glioblastomas in relation to patient characteristics and p53 accumulation. , 1999, 84, 416-420.		54
14	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
15	Influence of heterogeneous and anisotropic tissue conductivity on electric field distribution in deep brain stimulation. Medical and Biological Engineering and Computing, 2012, 50, 23-32.	2.8	54
16	Middle-ear influence on otoacoustic emissions. II: Contributions of posture and intracranial pressure. Hearing Research, 2000, 140, 202-211.	2.0	53
17	Contact position analysis of deep brain stimulation electrodes on post-operative CT images. Acta Neurochirurgica, 2009, 151, 823-829.	1.7	51
18	Extended Brocaâ€™s Area in the Functional Connectome of Language in Adults: Combined Cortical and Subcortical Single-Subject Analysis Using fMRI and DTI Tractography. Brain Topography, 2013, 26, 428-441.	1.8	51

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19	Slow pressure waves in the cranial enclosure. Acta Neurochirurgica, 2002, 144, 243-254.	1.7	47
20	Combined DTI Tractography and Functional MRI Study of the Language Connectome in Healthy Volunteers: Extensive Mapping of White Matter Fascicles and Cortical Activations. PLoS ONE, 2016, 11, e0152614.	2.5	47
21	Body weight gain and deep brain stimulation. Journal of the Neurological Sciences, 2011, 310, 267-270.	0.6	46
22	Deep brain stimulation in five patients with severe disorders of consciousness. Annals of Clinical and Translational Neurology, 2018, 5, 1372-1384.	3.7	43
23	Second course of stereotactic radiosurgery for locally recurrent brain metastases: Safety and efficacy. PLoS ONE, 2018, 13, e0195608.	2.5	40
24	Direct Stereotactic MRI Location in the Globus Pallidus for Chronic Stimulation in Parkinson's Disease. Acta Neurochirurgica, 1999, 141, 759-766.	1.7	34
25	Intraoperative visualisation of language fascicles by diffusion tensor imaging-based tractography in glioma surgery. Acta Neurochirurgica, 2013, 155, 437-448.	1.7	34
26	Maps of the adult human hypothalamus. , 2013, 4, 156.		34
27	Anatomy of the Human Thalamus Based on Spontaneous Contrast and Microscopic Voxels in High-Field Magnetic Resonance Imaging. Operative Neurosurgery, 2010, 66, ons161-ons172.	0.8	33
28	Emergence of restless legs syndrome after subthalamic stimulation in Parkinson's disease: a dopaminergic overstimulation?. Sleep Medicine, 2015, 16, 583-588.	1.6	33
29	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
30	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
31	White matter anatomy of the human deep brain revisited with high resolution DTI fibre tracking. Neurochirurgie, 2011, 57, 52-67.	1.2	23
32	Anatomical brain structures normalization for deep brain stimulation in movement disorders. NeuroImage: Clinical, 2020, 27, 102271.	2.7	23
33	The combined effect of subthalamic nuclei deep brain stimulation and l-dopa increases emotion recognition in Parkinsonâ€™s disease. Neuropsychologia, 2012, 50, 2869-2879.	1.6	22
34	Electrical modulation of neuronal networks in brain-injured patients with disorders of consciousness: A systematic review. Annales Francaises D'Anesthesie Et De Reanimation, 2014, 33, 88-97.	1.4	21
35	SCO-Spondin Derived Peptide NX210 Induces Neuroprotection In Vitro and Promotes Fiber Regrowth and Functional Recovery after Spinal Cord Injury. PLoS ONE, 2014, 9, e93179.	2.5	21
36	Deep Brain Stimulation of the Subthalamic Nucleus Regulates Postabsorptive Glucose Metabolism in Patients With Parkinson's Disease. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E1050-E1054.	3.6	20

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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. Neurosurgery, 2016, 79, 722-735.	1.1	20
38	Timeâ€course of myelination and atrophy on cerebral imaging in 35 patients with <scp>PLP</scp>1â€related disorders. Developmental Medicine and Child Neurology, 2016, 58, 706-713.	2.1	20
39	A computer software for frequential analysis of slow intracranial pressure waves. Computer Methods and Programs in Biomedicine, 1994, 42, 1-14.	4.7	17
40	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
41	Patient-Specific Electric Field Simulations and Acceleration Measurements for Objective Analysis of Intraoperative Stimulation Tests in the Thalamus. Frontiers in Human Neuroscience, 2016, 10, 577.	2.0	17
42	Intraoperative acceleration measurements to quantify improvement in tremor during deep brain stimulation surgery. Medical and Biological Engineering and Computing, 2017, 55, 845-858.	2.8	15
43	Fractionated radiotherapy and radiosurgery of intracranial meningiomas. Neurochirurgie, 2018, 64, 29-36.	1.2	15
44	New electrophysiological mapping combined with MRI in parkinsonianâ€™s subthalamic region. European Journal of Neuroscience, 2009, 29, 1627-1633.	2.6	14
45	3D Exploration of the Brainstem in 50-Micron Resolution MRI. Frontiers in Neuroanatomy, 2020, 14, 40.	1.7	13
46	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 156Âpatients. Neurochirurgie, 2016, 62, 183-189.	1.2	12
47	Let live or let die after traumatic coma. Neurology: Clinical Practice, 2012, 2, 24-32.	1.6	11
48	Neuromodulation for Eating Disorders. Neurosurgery Clinics of North America, 2014, 25, 147-157.	1.7	11
49	Anatomical predictors of cognitive decline after subthalamic stimulation in Parkinsonâ€™s disease. Brain Structure and Function, 2018, 223, 3063-3072.	2.3	11
50	A novel assistive method for rigidity evaluation during deep brain stimulation surgery using acceleration sensors. Journal of Neurosurgery, 2017, 127, 602-612.	1.6	10
51	Stereotactic Radiosurgery for Vestibular Schwannomas: Reducing Toxicity With 11 Gy as the Marginal Prescribed Dose. Frontiers in Oncology, 2020, 10, 598841.	2.8	10
52	Cystemustine in recurrent high grade glioma. Journal of Neuro-Oncology, 2006, 79, 33-37.	2.9	8
53	Does deep brain stimulation of the subthalamic nucleus induce metabolic syndrome in Parkinsonâ€™s disease?. European E-journal of Clinical Nutrition and Metabolism, 2011, 6, e126-e130.	0.4	8
54	MRI Atlas of the Human Deep Brain. Frontiers in Neurology, 2019, 10, 851.	2.4	8

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55	Disrupted Pallido-Thalamo-Cortical Functional Connectivity in Chronic Disorders of Consciousness. Brain Sciences, 2021, 11, 356.	2.3	7
56	Data Fusion and Fuzzy Spatial Relationships for Locating DeepÂBrainÂStimulation Targets in Magnetic Resonance Images. Lecture Notes in Computer Science, 2006, , 909-919.	1.3	6
57	Potential applications of medical and non-medical robots for neurosurgical applications. Minimally Invasive Therapy and Allied Technologies, 2009, 18, 193-216.	1.2	6
58	Inter-individual variations and hemispheric asymmetries in structural connectivity patterns of the inferior fronto-occipital fascicle: a diffusion tensor imaging tractography study. Surgical and Radiologic Anatomy, 2018, 40, 129-137.	1.2	6
59	Pulse generator battery life in deep brain stimulation: out with the oldâ€¦ in with the less durable?. Acta Neurochirurgica, 2019, 161, 2043-2046.	1.7	6
60	Long-Term Outcomes After Linac Radiosurgery for Benign Meningiomas. Clinical Oncology, 2020, 32, 452-458.	1.4	6
61	Stimulation maps: visualization of results of quantitative intraoperative testing for deep brain stimulation surgery. Medical and Biological Engineering and Computing, 2020, 58, 771-784.	2.8	6
62	Neural correlates of consciousness and related disorders: From phenotypic descriptors of behavioral and relative consciousness to cortico-subcortical circuitry. Neurochirurgie, 2022, 68, 212-222.	1.2	6
63	Early Deformation of Deep Brain Stimulation Electrodes Following Surgical Implantation: Intracranial, Brain, and Electrode Mechanics. Frontiers in Bioengineering and Biotechnology, 2021, 9, 657875.	4.1	6
64	Preoperative stereotactic radiosurgery for brain metastases: the STEP study protocol for a multicentre, prospective, phase-II trial. BMC Cancer, 2021, 21, 864.	2.6	6
65	Assistance to Planning in Deep Brain Stimulation: Data Fusion Method for Locating Anatomical Targets in MRI. , 2006, 2006, 144-7.		5
66	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
67	Brain Diffusion Imaging and Tractography to Distinguish Clinical Severity of Human <i>PLP1</i>-Related Disorders. Developmental Neuroscience, 2018, 40, 301-311.	2.0	5
68	A rare complication of flow diverter: delayed migration causing aneurysm expansion and brainstem compression. British Journal of Neurosurgery, 2019, , 1-4.	0.8	5
69	Motor cortex stimulation does not improve dystonia secondary to a focal basal ganglia lesion. Neurology, 2014, 82, 156-162.	1.1	4
70	Segmentation of the Subthalamic Nucleus in MR Images Using Information Fusion â€" A Preliminary Study for a Computed-Aided Surgery of Parkinson.s Disease. Lecture Notes in Computer Science, 2001, , 1183-1184.	1.3	4
71	Fabrication of a conformal ring-annular ultrasound array. Proceedings of SPIE, 2010, , .	0.8	3
72	Improved Dexterity after Chronic Electrical Stimulation of the Motor Cortex for Central Pain: A Special Relevance for Thalamic Syndrome. Stereotactic and Functional Neurosurgery, 2012, 90, 370-378.	1.5	3

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73	A method to quantitatively evaluate changes in tremor during deep brain stimulation surgery. , 2013, , .		3
74	Incidence and survival of childhood central nervous system tumors: A report of the regional registry of childhood cancers in Auvergne-Limousin. Neurochirurgie, 2015, 61, 237-243.	1.2	3
75	Postoperative empyema following chronic subdural hematoma surgery: Clinically based medicine. Neurochirurgie, 2020, 66, 365-368.	1.2	3
76	Subthalamus stimulation in Parkinson disease: Accounting for the bilaterality of contacts. , 2016, 7, 837.		3
77	Using acceleration sensors to quantify symptoms during deep brain stimulation surgery. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	2
78	fMRI study of graduated emotional charge for detection of covert activity using passive listening to narratives. Neuroscience, 2017, 349, 291-302.	2.3	2
79	A Minireview on Brain Models Simulating Geometrical, Physical, and Biochemical Properties of the Human Brain. Frontiers in Bioengineering and Biotechnology, 2022, 10, 818201.	4.1	2
80	Intraoperative optical flow based tremor evaluation - a feasibility study. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	1
81	Use of quantitative tremor evaluation to enhance target selection during deep brain stimulation surgery for essential tremor. Current Directions in Biomedical Engineering, 2015, 1, 488-492.	0.4	1
82	Analysis of adverse effects of stimulation during DBS surgery by patient-specific FEM simulations. , 2018, 2018, 2222-2225.		1
83	Neural correlates of rehabilitation program with robot-assisted intensive therapy in one case of Holmes tremor. Annals of Physical and Rehabilitation Medicine, 2020, 64, 101411.	2.3	1
84	Assessment of Maturational Changes in White Matter Anisotropy and Volume in Children: A DTI Study. American Journal of Neuroradiology, 2020, 41, 1726-1732.	2.4	1
85	Risk-Taking Behaviors of Adult Bedridden Patients in Neurosurgery: What Could/Should We Do?. Frontiers in Medicine, 2021, 8, 676538.	2.6	1
86	Functional and dysfunctional impulsivities changes after subthalamic nucleus-deep brain stimulation in Parkinson disease. Neurochirurgie, 2021, 67, 420-426.	1.2	1
87	Methodology for the selection of a smart material as actuator in neurosurgical robotics. Scientific Journal of the Ternopil National Technical University, 2020, 100, 5-10.	0.3	1
88	DTI Abnormalities Related to Glioblastoma: A Prospective Comparative Study with Metastasis and Healthy Subjects. Current Oncology, 2022, 29, 2823-2834.	2.2	1
89	Assistance to neurosurgical planning: using a fuzzy spatial graph model of the brain for locating anatomical targets in MRI. , 2007, , .		0
90	Quantitative rigidity evaluation during deep brain stimulation surgery - a preliminary study. Biomedizinische Technik, 2012, 57, .	0.8	0

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91	Neuroimaging of patients with disorders of consciousness: from bench to bedside?. Future Neurology, 2013, 8, 601-603.	0.5	0
92	Super-resolution in Clinical Conditions*: Deep Brain Stimulation Case Study. Fundamenta Informaticae, 2018, 163, 41-62.	0.4	0
93	Patterns of Failure After Linear Accelerator Radiosurgery for Cerebral Arteriovenous Malformations. World Neurosurgery, 2020, 136, e141-e148.	1.3	0
94	Challenging foreign body surgery: residual needlefish jaws. British Journal of Neurosurgery, 2020, , 1-3.	0.8	0
95	MRI maps, segregation, and white matter connectivity of the human hypothalamus in health. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2021, 179, 87-94.	1.8	0
96	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
97	Related Circuitry and Synaptic Connectivity in Psychiatric Disorders. , 2015, , 1-20.		0
98	Atlas Optimization for Deep Brain Stimulation. IFMBE Proceedings, 2021, , 130-142.	0.3	0