

# Alexandre Boutet

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

2,887  
citations

279798

23  
h-index

206112

48  
g-index

91  
all docs

91  
docs citations

91  
times ranked

2781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bloodâ€‘brain barrier opening in Alzheimerâ€™s disease using MR-guided focused ultrasound. Nature Communications, 2018, 9, 2336.	12.8	618
2	Technology of deep brain stimulation: current status and future directions. Nature Reviews Neurology, 2021, 17, 75-87.	10.1	341
3	A unified connectomic target for deep brain stimulation in obsessive-compulsive disorder. Nature Communications, 2020, 11, 3364.	12.8	199
4	Predicting optimal deep brain stimulation parameters for Parkinsonâ€™s disease using functional MRI and machine learning. Nature Communications, 2021, 12, 3043.	12.8	130
5	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. Brain, 2018, 141, 3405-3414.	7.6	129
6	A high-resolution in vivo magnetic resonance imaging atlas of the human hypothalamic region. Scientific Data, 2020, 7, 305.	5.3	87
7	Probabilistic Mapping of Deep Brain Stimulation: Insights from 15â€™Years of Therapy. Annals of Neurology, 2021, 89, 426-443.	5.3	68
8	The relevance of skull density ratio in selecting candidates for transcranial MR-guided focused ultrasound. Journal of Neurosurgery, 2020, 132, 1785-1791.	1.6	62
9	Clinical trials for deep brain stimulation: Current state of affairs. Brain Stimulation, 2020, 13, 378-385.	1.6	61
10	Deep brain stimulation targets in epilepsy: Systematic review and metaâ€™analysis of anterior and centromedian thalamic nuclei and hippocampus. Epilepsia, 2022, 63, 513-524.	5.1	54
11	Functional MRI Safety and Artifacts during Deep Brain Stimulation: Experience in 102 Patients. Radiology, 2019, 293, 174-183.	7.3	51
12	Bilateral Focused Ultrasound Thalamotomy for Essential Tremor (<sc>BESTâ€™FUS</sc> Phase 2 Trial). Movement Disorders, 2021, 36, 2653-2662.	3.9	51
13	Relationship between <sc>BDNF</sc> expression in major striatal afferents, striatum morphology and motor behavior in the <sc>R6/2</sc> mouse model of Huntington's disease. Genes, Brain and Behavior, 2013, 12, 108-124.	2.2	43
14	Inferior thalamic peduncle deep brain stimulation for treatment-refractory obsessive-compulsive disorder: A phase 1 pilot trial. Brain Stimulation, 2019, 12, 344-352.	1.6	43
15	Imaging alone versus microelectrode recordingâ€™guided targeting of the STN in patients with Parkinsonâ€™s disease. Journal of Neurosurgery, 2019, 130, 1847-1852.	1.6	41
16	On the (Nonâ€™)equivalency of monopolar and bipolar settings for deep brain stimulation fMRI studies of Parkinson's disease patients. Journal of Magnetic Resonance Imaging, 2019, 49, 1736-1749.	3.4	40
17	Improving Safety of MRI in Patients with Deep Brain Stimulation Devices. Radiology, 2020, 296, 250-262.	7.3	40
18	3-Tesla MRI of deep brain stimulation patients: safety assessment of coils and pulse sequences. Journal of Neurosurgery, 2020, 132, 586-594.	1.6	39

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19	Kilohertz-frequency stimulation of the nervous system: A review of underlying mechanisms. <i>Brain Stimulation</i> , 2021, 14, 513-530.	1.6	37
20	Magnetic resonance-guided focused ultrasound thalamotomy for treatment of essential tremor: A 2-year outcome study. <i>Movement Disorders</i> , 2018, 33, 1647-1650.	3.9	36
21	Multimodal MRI for MRgFUS in essential tremor: post-treatment radiological markers of clinical outcome. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020, 91, 921-927.	1.9	34
22	Neuroimaging Technological Advancements for Targeting in Functional Neurosurgery. <i>Current Neurology and Neuroscience Reports</i> , 2019, 19, 42.	4.2	29
23	Deep brain stimulation of the brainstem. <i>Brain</i> , 2021, 144, 712-723.	7.6	27
24	Probing the circuitry of panic with deep brain stimulation: Connectomic analysis and review of the literature. <i>Brain Stimulation</i> , 2020, 13, 10-14.	1.6	26
25	A Deep Learning-Based Approach to Reduce Rescan and Recall Rates in Clinical MRI Examinations. <i>American Journal of Neuroradiology</i> , 2019, 40, 217-223.	2.4	25
26	Neuromodulation beyond neurostimulation for epilepsy: scope for focused ultrasound. <i>Expert Review of Neurotherapeutics</i> , 2019, 19, 937-943.	2.8	23
27	Network Basis of Seizures Induced by Deep Brain Stimulation: Literature Review and Connectivity Analysis. <i>World Neurosurgery</i> , 2019, 132, 314-320.	1.3	23
28	Brain structures and networks responsible for stimulation-induced memory flashbacks during fornix deep brain stimulation for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2021, 17, 777-787.	0.8	23
29	Potential optimization of focused ultrasound capsulotomy for obsessive compulsive disorder. <i>Brain</i> , 2021, 144, 3529-3540.	7.6	23
30	Probing responses to deep brain stimulation with functional magnetic resonance imaging. <i>Brain Stimulation</i> , 2022, 15, 683-694.	1.6	22
31	Lesion Network Localization of Seizure Freedom following MR-guided Laser Interstitial Thermal Ablation. <i>Scientific Reports</i> , 2019, 9, 18598.	3.3	21
32	Mapping the network underpinnings of central poststroke pain and analgesic neuromodulation. <i>Pain</i> , 2020, 161, 2805-2819.	4.2	21
33	Sign-specific stimulation "hot" and "cold" spots in Parkinson's disease validated with machine learning. <i>Brain Communications</i> , 2021, 3, fcab027.	3.9	20
34	Deep Brain Stimulation of the Habenula: Systematic Review of the Literature and Clinical Trial Registries. <i>Frontiers in Psychiatry</i> , 2021, 12, 730931.	2.6	20
35	Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. <i>Journal of Neurosurgery</i> , 2020, 133, 1002-1009.	1.6	20
36	Structuro-functional surrogates of response to subcallosal cingulate deep brain stimulation for depression. <i>Brain</i> , 2022, 145, 362-377.	7.6	17

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37	Identification of neural networks preferentially engaged by epileptogenic mass lesions through lesion network mapping analysis. <i>Scientific Reports</i> , 2020, 10, 10989.	3.3	16
38	3T MRI of rapid brain activity changes driven by subcallosal cingulate deep brain stimulation. <i>Brain</i> , 2022, 145, 2214-2226.	7.6	16
39	Magnetic Resonance-Guided Focused Ultrasound Thalamotomy to Treat Essential Tremor in Nonagenarians. <i>Stereotactic and Functional Neurosurgery</i> , 2020, 98, 182-186.	1.5	14
40	A literature review of magnetic resonance imaging sequence advancements in visualizing functional neurosurgery targets. <i>Journal of Neurosurgery</i> , 2021, 135, 1445-1458.	1.6	14
41	Mapping autonomic, mood and cognitive effects of hypothalamic region deep brain stimulation. <i>Brain</i> , 2021, 144, 2837-2851.	7.6	14
42	Neuromodulatory treatments for psychiatric disease: A comprehensive survey of the clinical trial landscape. <i>Brain Stimulation</i> , 2021, 14, 1393-1403.	1.6	14
43	Blood oxygen level-dependent (BOLD) response patterns with thalamic deep brain stimulation in patients with medically refractory epilepsy. <i>Epilepsy and Behavior</i> , 2021, 122, 108153.	1.7	13
44	Trends in Clinical Trials for Spinal Cord Stimulation. <i>Stereotactic and Functional Neurosurgery</i> , 2021, 99, 123-134.	1.5	13
45	Progressive Disorganization of Paranodal Junctions and Compact Myelin Due to Loss of DCC Expression by Oligodendrocytes. <i>Journal of Neuroscience</i> , 2014, 34, 9768-9778.	3.6	12
46	Subthalamic Nucleus Visualization on Routine Clinical Preoperative MRI Scans: A Retrospective Study of Clinical and Image Characteristics Predicting Its Visualization. <i>Stereotactic and Functional Neurosurgery</i> , 2018, 96, 120-126.	1.5	12
47	Endovascular deep brain stimulation: Investigating the relationship between vascular structures and deep brain stimulation targets. <i>Brain Stimulation</i> , 2020, 13, 1668-1677.	1.6	12
48	Acute low frequency dorsal subthalamic nucleus stimulation improves verbal fluency in Parkinson's disease. <i>Brain Stimulation</i> , 2021, 14, 754-760.	1.6	12
49	Aggressiveness after centromedian nucleus stimulation engages prefrontal thalamocortical circuitry. <i>Brain Stimulation</i> , 2020, 13, 357-359.	1.6	11
50	Mapping efficacious deep brain stimulation for pediatric dystonia. <i>Journal of Neurosurgery: Pediatrics</i> , 2021, 27, 346-356.	1.3	10
51	<sc>Singleâ€Trajectory Multipleâ€Target</sc> Deep Brain Stimulation for Parkinsonian Mobility and Cognition. <i>Movement Disorders</i> , 2022, 37, 635-640.	3.9	10
52	Deep brain stimulation for extreme behaviors associated with autism spectrum disorder converges on a common pathway: a systematic review and connectomic analysis. <i>Journal of Neurosurgery</i> , 2022, , 1-10.	1.6	10
53	Identifying the neural network for neuromodulation in epilepsy through connectomics and graphs. <i>Brain Communications</i> , 2022, 4, .	3.3	10
54	Long-term follow-up of deep brain stimulation for anorexia nervosa. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 1135-1136.	1.9	9

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55	Untapped Neuroimaging Tools for Neuro-Oncology: Connectomics and Spatial Transcriptomics. <i>Cancers</i> , 2022, 14, 464.	3.7	9
56	Management of Pisa syndrome with lateralized subthalamic stimulation. <i>Journal of Neurology</i> , 2018, 265, 2442-2444.	3.6	8
57	Theta Burst Deep Brain Stimulation in Movement Disorders. <i>Movement Disorders Clinical Practice</i> , 2021, 8, 282-285.	1.5	8
58	Habenular Involvement in Response to Subcallosal Cingulate Deep Brain Stimulation for Depression. <i>Frontiers in Psychiatry</i> , 2022, 13, 810777.	2.6	7
59	Lesion Network Mapping Analysis Identifies Potential Cause of Postoperative Depression in a Case of Cingulate Low-Grade Glioma. <i>World Neurosurgery</i> , 2020, 133, 278-282.	1.3	6
60	Surgical targeting of large hypothalamic hamartomas and seizure-freedom following MR-guided laser interstitial thermal therapy. <i>Epilepsy and Behavior</i> , 2021, 116, 107774.	1.7	6
61	Self-adjustment of deep brain stimulation delays optimization in Parkinson's disease. <i>Brain Stimulation</i> , 2021, 14, 676-681.	1.6	6
62	Flexible vs. standard subthalamic stimulation in Parkinson disease: A double-blind proof-of-concept cross-over trial. <i>Parkinsonism and Related Disorders</i> , 2021, 89, 93-97.	2.2	6
63	Safety assessment of spine MRI in deep brain stimulation patients. <i>Journal of Neurosurgery: Spine</i> , 2020, 32, 973-983.	1.7	6
64	Neuromodulation for Pain: A Comprehensive Survey and Systematic Review of Clinical Trials and Connectomic Analysis of Brain Targets. <i>Stereotactic and Functional Neurosurgery</i> , 2022, 100, 14-25.	1.5	5
65	Axial Impairment Following Deep Brain Stimulation in Parkinson's Disease: A Surgicogenomic Approach. <i>Journal of Parkinson's Disease</i> , 2022, 12, 117-128.	2.8	5
66	Normative connectomes and their use in DBS. , 2022, , 245-274.		5
67	Lateralized Subthalamic Stimulation for Axial Dysfunction in Parkinson's Disease: A Randomized Trial. <i>Movement Disorders</i> , 2022, , .	3.9	5
68	Brain Structures and Networks Underlying Treatment Response to Deep Brain Stimulation Targeting the Inferior Thalamic Peduncle in Obsessive-Compulsive Disorder. <i>Stereotactic and Functional Neurosurgery</i> , 2022, 100, 236-243.	1.5	5
69	Behcet Disease Presenting With Cardiac and Pulmonary Masses. <i>Canadian Journal of Cardiology</i> , 2015, 31, 1204.e5-1204.e7.	1.7	4
70	Response: Deep brain stimulation targets in epilepsy: Systematic review and meta-analysis of anterior and centromedian thalamic nuclei and hippocampus. <i>Epilepsia</i> , 2022, 63, 1885-1886.	5.1	4
71	Lesions causing self-injurious behavior engage putative networks modulated by deep brain stimulation. <i>Brain Stimulation</i> , 2021, 14, 273-276.	1.6	3
72	Impact of Mesial Temporal Lobe Resection on Brain Structure in Medically Refractory Epilepsy. <i>World Neurosurgery</i> , 2021, 152, e652-e665.	1.3	3

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73	Modulation of CNS Functions by Deep Brain Stimulation: Insights Provided by Molecular Imaging. , 2021, , 1177-1244.		3
74	A Functional Connectome of Parkinson's Disease Patients Prior to Deep Brain Stimulation: A Tool for Disease-Specific Connectivity Analyses. <i>Frontiers in Neuroscience</i> , 0, 16, .	2.8	3
75	An exploratory study into the influence of laterality and location of hippocampal sclerosis on seizure prognosis and global cortical thinning. <i>Scientific Reports</i> , 2021, 11, 4686.	3.3	2
76	Evolution of the Neurosurgeon's Role in Clinical Trials for Glioblastoma: A Systematic Overview of the Clinicaltrials.Gov Database. <i>Neurosurgery</i> , 2021, 89, 196-203.	1.1	2
77	Probabilistic characterisation of deep brain stimulation in patients with tardive syndromes. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 909-911.	1.9	1
78	Lateralizing magnetic resonance imaging findings in mesial temporal sclerosis and correlation with seizure and neurocognitive outcome after temporal lobectomy. <i>Epilepsy Research</i> , 2021, 171, 106562.	1.6	1
79	Focused Ultrasound Thalamotomy Sensory Side Effects Follow the Thalamic Structural Homunculus. <i>Neurology: Clinical Practice</i> , 2021, 11, e497-e503.	1.6	1
80	Dysgeusia induced and resolved by focused ultrasound thalamotomy: case report. <i>Journal of Neurosurgery</i> , 2022, 136, 215-220.	1.6	1
81	Letter: Unforeseen Hurdles Associated With Magnetic Resonance Imaging in Patients With Deep Brain Stimulation Devices. <i>Neurosurgery</i> , 2022, Publish Ahead of Print, .	1.1	1
82	Neuroanatomical Correlates of Response to Focused Ultrasound Thalamotomy in Essential Tremor. <i>Neurosurgery</i> , 2019, 66, 310-362.	1.1	0
83	Scanning Contraindicated Deep Brain Stimulator Patients on 3 Tesla MRI â€“ A Single Centre Experience. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2019, 50, S4.	0.3	0
84	ACTR-28. A CALL FOR INCREASED ROLE OF NEUROSURGEONS IN SURGICAL TRIALS FOR NON-GLIOMATOUS PRIMARY CNS TUMORS: A SYSTEMATIC REVIEW OF THE CLINICALTRIALS.GOV DATABASE. <i>Neuro-Oncology</i> , 2019, 21, vi19-vi19.	1.2	0
85	ACTR-27. EVOLUTION OF THE NEUROSURGEONâ€™S ROLE IN CLINICAL TRIALS FOR GBM: A SYSTEMATIC OVERVIEW OF THE CLINICALTRIALS.GOV DATABASE. <i>Neuro-Oncology</i> , 2019, 21, vi18-vi19.	1.2	0
86	NIMG-25. LESION-NETWORK ANALYSIS TO IDENTIFY PREFERENTIALLY-ENGAGED NETWORKS IN EPILEPTOGENIC TUMORS. <i>Neuro-Oncology</i> , 2019, 21, vi166-vi167.	1.2	0
87	Global trends in chronic thromboembolic pulmonary hypertension clinical trials and dissemination of results. <i>Pulmonary Circulation</i> , 2021, 11, 1-8.	1.7	0
88	Focused Ultrasound Thalamotomy Sensory Side Effects Follow the Thalamic Structural Homunculus. <i>Neurology: Clinical Practice</i> , 2021, 11, e497-e503.	1.6	0
89	A Cautionary Tale of Magnetic Resonanceâ€“Guided Focused Ultrasound Thalamotomyâ€“Induced White Matter Lesions. <i>Movement Disorders</i> , 2022, 37, 1953-1955.	3.9	0