Eric Bardinet

List of Publications by Year
in descending order

60 papers	5,541 citations	109321 35 h-index	128289 60 g-index
62 all docs	62 docs citations	62 times ranked	5631 citing authors

#	Article	IF	Citations
1	Subthalamic Nucleus Stimulation in Severe Obsessiveâ€“Compulsive Disorder. New England Journal of Medicine, 2008, 359, 2121-2134.	27.0	829
2	Bilateral, pallidal, deep-brain stimulation in primary generalised dystonia: a prospective 3 year follow-up study. Lancet Neurology, The, 2007, 6, 223-229.	10.2	426
3	Stimulation of subterritories of the subthalamic nucleus reveals its role in the integration of the emotional and motor aspects of behavior. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10661-10666.	7.1	389
4	Cholinergic mesencephalic neurons are involved in gait and postural disorders in Parkinson disease. Journal of Clinical Investigation, 2010, 120, 2745-2754.	8.2	359
5	Bilateral pallidal deep brain stimulation for the treatment of patients with dystonia-choreoathetosis cerebral palsy: a prospective pilot study. Lancet Neurology, The, 2009, 8, 709-717.	10.2	313
6	A three-dimensional, histological and deformable atlas of the human basal ganglia. I. Atlas construction based on immunohistochemical and MRI data. NeuroImage, 2007, 34, 618-638.	4.2	288
7	Internal Pallidal and Thalamic Stimulation in Patients With Tourette Syndrome. Archives of Neurology, 2008, 65, 952-7.	4.5	219
8	Iconic feature based nonrigid registration: the PASHA algorithm. Computer Vision and Image Understanding, 2003, 89, 272-298.	4.7	200
9	Localization of stimulating electrodes in patients with Parkinson disease by using a three-dimensional atlasâ€”magnetic resonance imaging coregistration method. Journal of Neurosurgery, 2003, 99, 89-99.	1.6	178
10	Anatomically constrained region deformation for the automated segmentation of the hippocampus and the amygdala: Method and validation on controls and patients with Alzheimerâ€™s disease. NeuroImage, 2007, 34, 996-1019.	4.2	145
11	Tracking and motion analysis of the left ventricle with deformable superquadrics. Medical Image Analysis, 1996, 1, 129-149.	11.6	124
12	7 tesla magnetic resonance imaging: A closer look at substantia nigra anatomy in Parkinson's disease. Movement Disorders, 2014, 29, 1574-1581.	3.9	113
13	Fusion of autoradiographs with an MR volume using 2-D and 3-D linear transformations. NeuroImage, 2004, 23, 111-127.	4.2	109
14	A Parametric Deformable Model to Fit Unstructured 3D Data. Computer Vision and Image Understanding, 1998, 71, 39-54.	4.7	101
15	A three-dimensional histological atlas of the human basal ganglia. II. Atlas deformation strategy and evaluation in deep brain stimulation for Parkinson disease. Journal of Neurosurgery, 2009, 110, 208-219.	1.6	97
16	Intrinsic signature of essential tremor in the cerebello-frontal network. Brain, 2015, 138, 2920-2933.	7.6	87
17	Distinct striatal targets in treating obsessive-compulsive disorder and major depression. Journal of Neurosurgery, 2009, 111, 775-779.	1.6	86
18	Anterior pallidal deep brain stimulation for Tourette's syndrome: a randomised, double-blind, controlled trial. Lancet Neurology, The, 2017, 16, 610-619.	10.2	82

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19	Threeâ€dimensional cartography of functional territories in the human striatopallidal complex by using calbindin immunoreactivity. Journal of Comparative Neurology, 2002, 450, 122-134.	1.6	81
20	Bilateral Deep Brain Stimulation of the Pallidum for Myoclonus-Dystonia Due to Îµ-Sarcoglycan Mutations. Archives of Neurology, 2011, 68, 94-8.	4.5	81
21	The integrative role of the pedunculopontine nucleus in human gait. Brain, 2015, 138, 1284-1296.	7.6	77
22	PPNa-DBS for gait and balance disorders in Parkinsonâ€™s disease: a double-blind, randomised study. Journal of Neurology, 2015, 262, 1515-1525.	3.6	73
23	Piecewise affine registration of biological images for volume reconstruction. Medical Image Analysis, 2006, 10, 465-483.	11.6	71
24	Acute Deep-Brain Stimulation of the Internal and External Globus Pallidus in Primary Dystonia. Archives of Neurology, 2007, 64, 1281.	4.5	71
25	RAD51 deficiency disrupts the corticospinal lateralization of motor control. Brain, 2013, 136, 3333-3346.	7.6	63
26	Pedunculopontine network dysfunction in Parkinson's disease with postural control and sleep disorders. Movement Disorders, 2017, 32, 693-704.	3.9	54
27	Functional magnetic resonance imaging suggests automatization of the cortical response to inspiratory threshold loading in humans. Respiratory Physiology and Neurobiology, 2013, 189, 571-580.	1.6	53
28	Prediction of Infarct Growth Based on Apparent Diffusion Coefficients: Penumbral Assessment without Intravenous Contrast Material. Radiology, 2009, 250, 184-192.	7.3	52
29	Subthalamic stimulation may inhibit the beneficial effects of levodopa on akinesia and gait. Movement Disorders, 2016, 31, 1389-1397.	3.9	52
30	Orthostatic tremor: a cerebellar pathology?. Brain, 2016, 139, 2182-2197.	7.6	49
31	External Globus Pallidus Stimulation Modulates Brain Connectivity in Huntington's Disease. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 41-46.	4.3	45
32	Extrapyramidal deficits in ALS: a combined biomechanical and neuroimaging study. Journal of Neurology, 2018, 265, 2125-2136.	3.6	45
33	Functional Parcellation of the Lateral Mesencephalus. Journal of Neuroscience, 2012, 32, 9396-9401.	3.6	40
34	Characterization and correction of distortions in stereotactic magnetic resonance imaging for bilateral subthalamic stimulation in Parkinson disease. Journal of Neurosurgery, 2005, 103, 256-266.	1.6	39
35	High-level gait and balance disorders in the elderly: a midbrain disease?. Journal of Neurology, 2014, 261, 196-206.	3.6	39
36	Clinical and anatomical predictors for freezing of gait and falls after subthalamic deep brain stimulation in Parkinson's disease patients. Parkinsonism and Related Disorders, 2019, 62, 91-97.	2.2	34

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37	Neuronal activity correlated with checking behaviour in the subthalamic nucleus of patients with obsessiveâ€“compulsive disorder. Brain, 2013, 136, 304-317.	7.6	33
38	Multimodal Magnetic Resonance Imaging Quantification of Brain Changes in Progressive Supranuclear Palsy. Movement Disorders, 2020, 35, 161-170.	3.9	31
39	Pallidal activity in myoclonus dystonia correlates with motor signs. Movement Disorders, 2015, 30, 992-996.	3.9	30
40	Normal and pathological neuronal distribution of the human mesencephalic locomotor region. Movement Disorders, 2019, 34, 218-227.	3.9	26
41	Impact of Subthalamic Deep Brain Stimulation on Impulse Control Disorders in Parkinson's Disease: A Prospective Study. Movement Disorders, 2021, 36, 750-757.	3.9	26
42	Single-voxel¹H spectroscopy in the human hippocampus at 3 T using the LASER sequence: characterization of neurochemical profile and reproducibility. NMR in Biomedicine, 2015, 28, 1209-1217.	2.8	24
43	The anatomo-functional organization of the hyperdirect cortical pathway to the subthalamic area using in vivo structural connectivity imaging in humans. Brain Structure and Function, 2020, 225, 551-565.	2.3	23
44	Automatic Prediction of Infarct Growth in Acute Ischemic Stroke from MR Apparent Diffusion Coefficient Maps. Academic Radiology, 2008, 15, 77-83.	2.5	22
45	Anatomical evidence for functional diversity in the mesencephalic locomotor region of primates. NeuroImage, 2017, 147, 66-78.	4.2	22
46	Does unilateral basal ganglia activity functionally influence the contralateral side? What we can learn from STN stimulation in patients with Parkinson's disease. Journal of Neurophysiology, 2012, 108, 1575-1583.	1.8	19
47	In vivo Exploration of the Connectivity between the Subthalamic Nucleus and the Globus Pallidus in the Human Brain Using Multi-Fiber Tractography. Frontiers in Neuroanatomy, 2016, 10, 119.	1.7	16
48	Thalamic stimulation for tremor: Can target determination be improved?. Movement Disorders, 2011, 26, 307-312.	3.9	14
49	Combined pallidal and subthalamic nucleus deep brain stimulation in secondary dystonia-parkinsonism. Parkinsonism and Related Disorders, 2013, 19, 566-568.	2.2	12
50	Lesions in deep gray nuclei after severe traumatic brain injury predict neurologic outcome. PLoS ONE, 2017, 12, e0186641.	2.5	12
51	Deep brain activation patterns involved in virtual gait without and with a doorway: An fMRI study. PLoS ONE, 2019, 14, e0223494.	2.5	12
52	Differentiation of sCJD and vCJD forms by automated analysis of basal ganglia intensity distribution in multisequence MRI of the brain-definition and evaluation of new MRI-based ratios. IEEE Transactions on Medical Imaging, 2006, 25, 1052-1067.	8.9	11
53	Corticoâ€“thalamic disconnection in a patient with supernumerary phantom limb. Experimental Brain Research, 2017, 235, 3163-3174.	1.5	11
54	Post mortem high resolution diffusion MRI for large specimen imaging at 11.7â€‰T with 3D segmented echo-planar imaging. Journal of Neuroscience Methods, 2019, 311, 222-234.	2.5	10

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55	Combining Spatial Independent Component Analysis with Regression to Identify the Subcortical Components of Resting-State fMRI Functional Networks. Brain Connectivity, 2014, 4, 181-192.	1.7	6
56	Pedunculopontine and Cuneiform Nuclei Deep Brain Stimulation for Severe Gait and Balance Disorders in Parkinsonâ€™s Disease: Interim Results from a Randomized Double-Blind Clinical Trial. Journal of Parkinson's Disease, 2022, 12, 639-653.	2.8	6
57	Lesions in the Associative Striatum Improve Obsessive-Compulsive Disorder. Biological Psychiatry, 2009, 65, e11-e13.	1.3	4
58	Effects of dopaminergic and subthalamic stimulation on musical performance. Journal of Neural Transmission, 2013, 120, 755-759.	2.8	3
59	Anatomoâ€Functional Mapping of the Primate Mesencephalic Locomotor Region Using Stereotactic Lesions. Movement Disorders, 2020, 35, 789-799.	3.9	3
60	DÃ©termination d'un modÃ¨le biomÃ©canique du cerveau par l'analyse d'images: application Ã la maladie de ParkinsonDetermination of a biomechanical model of the brain by magnetic resonance images: application to Parkinson's disease. Mecanique Et Industries, 2003, 4, 429-433.	0.2	1