Didier Dormont

List of Publications by Year
in descending order

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105 papers	9,313 citations	66343 42 h-index	39675 94 g-index
116 all docs	116 docs citations	116 times ranked	8277 citing authors

#	Article	IF	Citations
1	Bilateral Deep-Brain Stimulation of the Globus Pallidus in Primary Generalized Dystonia. New England Journal of Medicine, 2005, 352, 459-467.	27.0	1,091
2	Subthalamic Nucleus Stimulation in Severe Obsessiveâ€“Compulsive Disorder. New England Journal of Medicine, 2008, 359, 2121-2134.	27.0	829
3	Transient Acute Depression Induced by High-Frequency Deep-Brain Stimulation. New England Journal of Medicine, 1999, 340, 1476-1480.	27.0	674
4	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
5	Longâ€term results of a multicenter study on subthalamic and pallidal stimulation in Parkinson's disease. Movement Disorders, 2010, 25, 578-586.	3.9	382
6	Compulsions, Parkinson's disease, and stimulation. Lancet, The, 2002, 360, 1302-1304.	13.7	351
7	Convolutional neural networks for classification of Alzheimer's disease: Overview and reproducible evaluation. Medical Image Analysis, 2020, 63, 101694.	11.6	351
8	Bilateral subthalamic stimulation for Parkinson's disease by using three-dimensional stereotactic magnetic resonance imaging and electrophysiological guidance. Journal of Neurosurgery, 2000, 92, 615-625.	1.6	340
9	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
10	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
11	Internal Pallidal and Thalamic Stimulation in Patients With Tourette Syndrome. Archives of Neurology, 2008, 65, 952-7.	4.5	219
12	Iconic feature based nonrigid registration: the PASHA algorithm. Computer Vision and Image Understanding, 2003, 89, 272-298.	4.7	200
13	Effects of High-Frequency Stimulation on Subthalamic Neuronal Activity in Parkinsonian Patients. Archives of Neurology, 2004, 61, 89.	4.5	190
14	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
15	T1 Signal Hyperintensity in the Sellar Region: Spectrum of Findings. Radiographics, 2006, 26, 93-113.	3.3	176
16	Diffusion tensor imaging in medial temporal lobe epilepsy with hippocampal sclerosis. NeuroImage, 2005, 28, 682-690.	4.2	169
17	Cerebral, Facial, and Orbital Involvement in Erdheim-Chester Disease: CT and MR Imaging Findings. Radiology, 2010, 255, 586-594.	7.3	160
18	Deciphering logopenic primary progressive aphasia: a clinical, imaging and biomarker investigation. Brain, 2013, 136, 3474-3488.	7.6	146

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19	Retrospective Observational Study of Brain MRI Findings in Patients with Acute SARS-CoV-2 Infection and Neurologic Manifestations. Radiology, 2020, 297, E313-E323.	7.3	131
20	Is the subthalamic nucleus hypointense on T2-weighted images? A correlation study using MR imaging and stereotactic atlas data. American Journal of Neuroradiology, 2004, 25, 1516-23.	2.4	129
21	Subthalamic Stimulation in Parkinson Disease. Archives of Neurology, 2004, 61, 390.	4.5	119
22	Effect of low and high frequency thalamic stimulation on sleep in patients with Parkinson's disease and essential tremor. Journal of Sleep Research, 2000, 9, 55-62.	3.2	113
23	Intensive Versus Subcutaneous Insulin in Patients With Hyperacute Stroke. Stroke, 2012, 43, 2343-2349.	2.0	112
24	Early Morphologic and Spectroscopic Magnetic Resonance in Severe Traumatic Brain Injuries Can Detect â€œInvisible Brain Stem Damageâ€•and Predict â€œVegetative Statesâ€• Journal of Neurotrauma, 2006, 23, 674-685.	3.4	103
25	Longâ€Term Outcome of Neuroâ€BehÃ§et's Disease. Arthritis and Rheumatology, 2014, 66, 1306-1314.	5.6	102
26	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
27	Subthalamic Stimulation in Parkinson Disease. Archives of Neurology, 2003, 60, 690.	4.5	90
28	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
29	Proximal Great Vessels of Aortic Arch: Comparison of Three-dimensional Gadolinium-enhanced MR Angiography and Digital Subtraction Angiography. Radiology, 2003, 229, 697-702.	7.3	78
30	Association of Prognostic Factors and Immunosuppressive Treatment With Long-term Outcomes in Neurosarcoidosis. JAMA Neurology, 2017, 74, 1336.	9.0	76
31	Acute Deep-Brain Stimulation of the Internal and External Globus Pallidus in Primary Dystonia. Archives of Neurology, 2007, 64, 1281.	4.5	71
32	Interictal diffusion MRI in partial epilepsies explored with intracerebral electrodes. Brain, 2006, 129, 375-385.	7.6	67
33	Spatial regularization of SVM for the detection of diffusion alterations associated with stroke outcome. Medical Image Analysis, 2011, 15, 729-737.	11.6	66
34	Dopaminergic Dysfunction in Midbrain Dystonia. Archives of Neurology, 1999, 56, 982.	4.5	58
35	Neuroimaging features in posterior reversible encephalopathy syndrome: A pictorial review. Journal of the Neurological Sciences, 2017, 373, 188-200.	0.6	58
36	Deep brain stimulation in Parkinson's disease: Opposite effects of stimulation in the pallidum. Movement Disorders, 1998, 13, 969-970.	3.9	55

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37	Prediction of Infarct Growth Based on Apparent Diffusion Coefficients: Penumbral Assessment without Intravenous Contrast Material. Radiology, 2009, 250, 184-192.	7.3	52
38	The Brain Network of Naming: A Lesson from Primary Progressive Aphasia. PLoS ONE, 2016, 11, e0148707.	2.5	52
39	Predicting the progression of mild cognitive impairment using machine learning: A systematic, quantitative and critical review. Medical Image Analysis, 2021, 67, 101848.	11.6	50
40	Contrast-Based Fully Automatic Segmentation of White Matter Hyperintensities: Method and Validation. PLoS ONE, 2012, 7, e48953.	2.5	49
41	Camptocormia and Parkinsonâ€™s disease: MR imaging. European Radiology, 2008, 18, 1710-1719.	4.5	47
42	Prospective Study of Cerebral Sinus Venous Thrombosis in Patients Presenting with Benign Intracranial Hypertension. Cerebrovascular Diseases, 1992, 2, 22-27.	1.7	44
43	Is There a Negative Correlation between Explicit Memory and Hippocampal Volume?. NeuroImage, 1999, 10, 589-595.	4.2	41
44	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
45	Is radiological evaluation as good as computer-based volumetry to assess hippocampal atrophy in Alzheimerâ€™s disease?. Neuroradiology, 2012, 54, 1321-1330.	2.2	39
46	High-level gait and balance disorders in the elderly: a midbrain disease?. Journal of Neurology, 2014, 261, 196-206.	3.6	39
47	Aphasia outcome: the interactions between initial severity, lesion size and location. Journal of Neurology, 2019, 266, 1303-1309.	3.6	39
48	Pregnancy complicated by cerebral venous thrombosis in BehÃ§et's disease. American Journal of Obstetrics and Gynecology, 1995, 173, 1627-1629.	1.3	34
49	In Vivo Detection of Thalamic Gliosis. Archives of Neurology, 2008, 65, 545.	4.5	34
50	Comparison and validation of seven white matter hyperintensities segmentation software in elderly patients. NeuroImage: Clinical, 2020, 27, 102357.	2.7	31
51	Reduction of recruitment costs in preclinical AD trials: validation of automatic pre-screening algorithm for brain amyloidosis. Statistical Methods in Medical Research, 2020, 29, 151-164.	1.5	30
52	Irregular jerky tremor, myoclonus, and thalamus: A study using low-frequency stimulation. Movement Disorders, 2000, 15, 919-924.	3.9	29
53	Hyperglycaemia, Insulin Therapy and Critical Penumbral Regions for Prognosis in Acute Stroke: Further Insights from the INSULINFARCT Trial. PLoS ONE, 2015, 10, e0120230.	2.5	29
54	Axial Diffusivity of the Corona Radiata at 24 Hours Post-Stroke: A New Biomarker for Motor and Global Outcome. PLoS ONE, 2015, 10, e0142910.	2.5	27

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55	Tissue at risk in the deep middle cerebral artery territory is critical to stroke outcome. Neuroradiology, 2011, 53, 763-771.	2.2	26
56	Gadolinium-DTPA Enhanced MR Imaging of Intradural Neurenteric Cysts. Journal of Computer Assisted Tomography, 1988, 12, 762-764.	0.9	24
57	Predictors of cognitive decline and treatment response in a clinical trial on suspected prodromal Alzheimer's disease. Neuropharmacology, 2016, 108, 128-135.	4.1	23
58	Automatic Prediction of Infarct Growth in Acute Ischemic Stroke from MR Apparent Diffusion Coefficient Maps. Academic Radiology, 2008, 15, 77-83.	2.5	22
59	Clinical usefulness of the visibility of the transcerebral veins at 3T on T2*-weighted sequence in acute stroke patients. European Journal of Radiology, 2012, 81, 1282-1287.	2.6	21
60	Ensemble Learning of Convolutional Neural Network, Support Vector Machine, and Best Linear Unbiased Predictor for Brain Age Prediction: ARAMIS Contribution to the Predictive Analytics Competition 2019 Challenge. Frontiers in Psychiatry, 2020, 11, 593336.	2.6	21
61	Accuracy of MRI Classification Algorithms in a Tertiary Memory Center Clinical Routine Cohort. Journal of Alzheimer's Disease, 2020, 74, 1157-1166.	2.6	19
62	Radiological classification of dementia from anatomical MRI assisted by machine learning-derived maps. Journal of Neuroradiology, 2021, 48, 412-418.	1.1	18
63	Bioactive glass granules for mastoid and epitympanic surgical obliteration: CT and MRI appearance. European Radiology, 2019, 29, 5617-5626.	4.5	17
64	Simultaneously acquired PET and ASL imaging biomarkers may be helpful in differentiating progression from pseudo-progression in treated gliomas. European Radiology, 2021, 31, 7395-7405.	4.5	17
65	Automatic segmentation of white matter hyperintensities: validation and comparison with state-of-the-art methods on both Multiple Sclerosis and elderly subjects. NeuroImage: Clinical, 2022, 33, 102940.	2.7	17
66	2D harmonic filtering of MR phase images in multicenter clinical setting: Toward a magnetic signature of cerebral microbleeds. NeuroImage, 2015, 104, 287-300.	4.2	16
67	Diffusion tensor imaging can localize the epileptogenic zone in nonlesional extra-temporal refractory epilepsies when [18F]FDG-PET is not contributive. Epilepsy Research, 2011, 97, 170-182.	1.6	15
68	Thalamic stimulation for tremor: Can target determination be improved?. Movement Disorders, 2011, 26, 307-312.	3.9	14
69	Prediction of Subacute Infarct Size in Acute Middle Cerebral Artery Stroke: Comparison of Perfusion-weighted Imaging and Apparent Diffusion Coefficient Maps. Radiology, 2012, 265, 511-517.	7.3	14
70	ASL perfusion in acute ischemic stroke: The value of CBF in outcome prediction. Clinical Neurology and Neurosurgery, 2020, 194, 105908.	1.4	14
71	Nuclear bilateral Bell's palsy and ageusia associated with Mycoplasma pneumoniae pulmonary infection. Journal of Medical Microbiology, 2005, 54, 417-419.	1.8	13
72	Postoperative Recovery of Hippocampal Contralateral Diffusivity in Medial Temporal Lobe Epilepsy. Epilepsia, 2007, 48, 599-604.	5.1	13

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73	Extensive basal ganglia edema caused by a traumatic carotid-cavernous fistula: a rare presentation related to a basal vein of Rosenthal anatomical variation. Journal of Neurosurgery, 2014, 121, 63-66.	1.6	13
74	Specificities of arterial spin labeling (ASL) abnormalities in acute seizure. Journal of Neuroradiology, 2020, 47, 20-26.	1.1	13
75	ClinicaDL: An open-source deep learning software for reproducible neuroimaging processing. Computer Methods and Programs in Biomedicine, 2022, 220, 106818.	4.7	13
76	Involvement of peripheral III nerve in multiple sclerosis patient: Report of a new case and discussion of the underlying mechanism. Multiple Sclerosis Journal, 2017, 23, 748-750.	3.0	12
77	Lesions in deep gray nuclei after severe traumatic brain injury predict neurologic outcome. PLoS ONE, 2017, 12, e0186641.	2.5	12
78	Critical brain regions related to post-stroke aphasia severity identified by early diffusion imaging are not the same when predicting short- and long-term outcome. Brain and Language, 2018, 186, 1-7.	1.6	12
79	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
80	Improved cerebral microbleeds detection using their magnetic signature on T2*-phase-contrast: A comparison study in a clinical setting. NeuroImage: Clinical, 2017, 15, 274-283.	2.7	11
81	Non-ischemic cerebral enhancing lesions after intracranial aneurysm endovascular repair: a retrospective French national registry. Journal of NeuroInterventional Surgery, 2022, 14, 925-930.	3.3	10
82	Partial epilepsy: A pictorial review of 3 TESLA magnetic resonance imaging features. Clinics, 2015, 70, 654-661.	1.5	8
83	Are Gadolinium-Enhanced MR Sequences Needed in Simultaneous ¹⁸F-FDG-PET/MRI for Tumor Delineation in Head and Neck Cancer?. American Journal of Neuroradiology, 2020, 41, 1888-1896.	2.4	8
84	Imaging growth as a predictor of grade of malignancy and aggressiveness of IDH-mutant and 1p/19q-codeleted oligodendrogliomas in adults. Neuro-Oncology, 2020, 22, 993-1005.	1.2	7
85	Preserved auditory cognitive ERPs in severe akinetic mutism: a case report. Cognitive Brain Research, 2004, 19, 202-205.	3.0	6
86	Arterial Spin Labeling to Predict Brain Tumor Grading: Limits of Cutoff Cerebral Blood Flow Values. Radiology, 2017, 282, 610-612.	7.3	6
87	Spinal cord infarction during venoarterial-extracorporeal membrane oxygenation support. Journal of Artificial Organs, 2020, 23, 388-393.	0.9	6
88	Transient reduction in venous susceptibility during posterior reversible encephalopathy syndrome. Journal of the Neurological Sciences, 2015, 358, 505-506.	0.6	5
89	Pseudo-continuous arterial spin labelling shows high diagnostic performance in the detection of postoperative residual lesion in hyper-vascularised adult brain tumours. European Radiology, 2020, 30, 2809-2820.	4.5	5
90	Persistent perfusion abnormalities at day 1 correspond to different clinical trajectories after stroke. Journal of NeuroInterventional Surgery, 2023, 15, e26-e32.	3.3	4

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91	Considerations on the Relevance of Cerebral Fusiform Aneurysms Observed During HIV Infection. Clinical Neuroradiology, 2018, 28, 357-365.	1.9	3
92	Reliability and accuracy of time-resolved contrast-enhanced magnetic resonance angiography in hypervascular spinal metastases prior embolization. European Radiology, 2021, 31, 4690-4699.	4.5	3
93	Pathomechanisms behind cognitive disorders following ruptured anterior communicating aneurysms: A diffusion tensor imaging study. Journal of Neuroradiology, 2021, , .	1.1	3
94	Benefit of mechanical thrombectomy in acute ischemic stroke related to calcified cerebral embolus. Journal of Neuroradiology, 2022, 49, 317-323.	1.1	3
95	Successful endovascular treatment of three fusiform cerebral aneurysms with the Pipeline Embolization Device in a patient with dilating HIV vasculopathy. Journal of NeuroInterventional Surgery, 2017, 9, e7.1-e7.	3.3	2
96	Increased 18F-FDG Uptake in Lhermitte-Duclos Disease With Cowden Syndrome Revealed by PET-MRI. Clinical Nuclear Medicine, 2018, 43, e355-e356.	1.3	2
97	MRI Field Strength Predicts Alzheimerâ€™s Disease: a Case Example of Bias in the ADNI Data Set. , 2022, , .		2
98	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
99	Malignant transformation of epidermoid cyst with diffuse leptomeningeal carcinomatosis on skull base and trigeminal perineural spread. Journal of Neuroradiology, 2018, 45, 337-340.	1.1	1
100	EGFR gene amplification in monocentric and multicentric glioblastoma. Journal of Neuro-Oncology, 2019, 145, 587-589.	2.9	1
101	Place de l'anatomie dans la cartographie fonctionnelle du cerveau. Annales De L'Institut Pasteur / ActualitÃ©s, 1998, 9, 243-258.	0.1	0
102	Letter to the Editor: Can Vagus Nerve Schwannoma Masquerade as a Carotid Chemodectoma?. Journal of Maxillofacial and Oral Surgery, 2017, 16, 400-401.	1.4	0
103	Tribute to Anne Bertrand (1978â€“2018): Neuroradiologist, scientist, teacher and friend. Journal of Neuroradiology, 2019, 46, 155-159.	1.1	0
104	Low ADC in CNS Lymphoma. Clinical Nuclear Medicine, 2020, 45, 545-546.	1.3	0
105	Aspects radiologiques de l'atteinte orbitaire de la maladie d'erdheim chester. Journal of Neuroradiology, 2022, 49, 124-125.	1.1	0