

David E Vaillancourt

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

3,022
citations

31
h-index

53
g-index

95
ext. papers

3,867
ext. citations

6.2
avg. IF

5.33
L-index

#	Paper	IF	Citations
87	Changing complexity in human behavior and physiology through aging and disease. <i>Neurobiology of Aging</i> , 2002 , 23, 1-11	5.6	353
86	Intermittency in the control of continuous force production. <i>Journal of Neurophysiology</i> , 2000 , 84, 1708-18	3.8	256
85	Free-water imaging in Parkinson's disease and atypical parkinsonism. <i>Brain</i> , 2016 , 139, 495-508	11.2	115
84	Longitudinal changes in free-water within the substantia nigra of Parkinson's disease. <i>Brain</i> , 2015 , 138, 2322-31	11.2	114
83	Exercise improves cognition in Parkinson's disease: The PRET-PD randomized, clinical trial. <i>Movement Disorders</i> , 2015 , 30, 1657-63	7	107
82	Dopamine overdose hypothesis: evidence and clinical implications. <i>Movement Disorders</i> , 2013 , 28, 1920-9	9	98
81	Increased free water in the substantia nigra of Parkinson's disease: a single-site and multi-site study. <i>Neurobiology of Aging</i> , 2015 , 36, 1097-104	5.6	86
80	Regularity of force tremor in Parkinson's disease. <i>Clinical Neurophysiology</i> , 2001 , 112, 1594-603	4.3	86
79	Progression marker of Parkinson's disease: a 4-year multi-site imaging study. <i>Brain</i> , 2017 , 140, 2183-2192	11.2	80
78	Intermittent visuomotor processing in the human cerebellum, parietal cortex, and premotor cortex. <i>Journal of Neurophysiology</i> , 2006 , 95, 922-31	3.2	79
77	Feedforward and feedback motor control abnormalities implicate cerebellar dysfunctions in autism spectrum disorder. <i>Journal of Neuroscience</i> , 2015 , 35, 2015-25	6.6	77
76	Intermittency in the visual control of force in Parkinson's disease. <i>Experimental Brain Research</i> , 2001 , 138, 118-27	2.3	73
75	Finding useful biomarkers for Parkinson's disease. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	69
74	Visual angle is the critical variable mediating gain-related effects in manual control. <i>Experimental Brain Research</i> , 2006 , 173, 742-50	2.3	68
73	The role of high-field magnetic resonance imaging in parkinsonian disorders: Pushing the boundaries forward. <i>Movement Disorders</i> , 2017 , 32, 510-525	7	65
72	A Template and Probabilistic Atlas of the Human Sensorimotor Tracts using Diffusion MRI. <i>Cerebral Cortex</i> , 2018 , 28, 1685-1699	5.1	61
71	Selective regions of the visuomotor system are related to gain-induced changes in force error. <i>Journal of Neurophysiology</i> , 2010 , 103, 2114-23	3.2	60

70	The NINDS Parkinson's disease biomarkers program. <i>Movement Disorders</i> , 2016 , 31, 915-23	7	56
69	Functional Brain Activity Relates to 0-3 and 3-8 Hz Force Oscillations in Essential Tremor. <i>Cerebral Cortex</i> , 2015 , 25, 4191-202	5.1	54
68	Beta-band activity and connectivity in sensorimotor and parietal cortex are important for accurate motor performance. <i>NeuroImage</i> , 2017 , 144, 164-173	7.9	52
67	Individuals with autism spectrum disorder show abnormalities during initial and subsequent phases of precision gripping. <i>Journal of Neurophysiology</i> , 2015 , 113, 1989-2001	3.2	48
66	A widespread visually-sensitive functional network relates to symptoms in essential tremor. <i>Brain</i> , 2018 , 141, 472-485	11.2	40
65	Network-level connectivity is a critical feature distinguishing dystonic tremor and essential tremor. <i>Brain</i> , 2019 , 142, 1644-1659	11.2	38
64	Repetitive Transcranial Magnetic Stimulation (rTMS) Therapy in Parkinson Disease: A Meta-Analysis. <i>PM and R</i> , 2016 , 8, 356-366	2.2	37
63	Subthalamic nucleus--sensorimotor cortex functional connectivity in de novo and moderate Parkinson's disease. <i>Neurobiology of Aging</i> , 2015 , 36, 462-9	5.6	34
62	Free water improves detection of changes in the substantia nigra in parkinsonism: A multisite study. <i>Movement Disorders</i> , 2017 , 32, 1457-1464	7	34
61	Distinct patterns of brain activity in progressive supranuclear palsy and Parkinson's disease. <i>Movement Disorders</i> , 2015 , 30, 1248-58	7	34
60	Parkinson's disease biomarkers: perspective from the NINDS Parkinson's Disease Biomarkers Program. <i>Biomarkers in Medicine</i> , 2017 , 11, 451-473	2.3	33
59	Effects of visual and auditory feedback on sensorimotor circuits in the basal ganglia. <i>Journal of Neurophysiology</i> , 2008 , 99, 3042-51	3.2	33
58	Knowledge gaps and research recommendations for essential tremor. <i>Parkinsonism and Related Disorders</i> , 2016 , 33, 27-35	3.6	33
57	Imaging of Motor Cortex Physiology in Parkinson's Disease. <i>Movement Disorders</i> , 2018 , 33, 1688-1699	7	33
56	Neurite orientation dispersion and density imaging (NODDI) and free-water imaging in Parkinsonism. <i>Human Brain Mapping</i> , 2019 , 40, 5094-5107	5.9	30
55	Functional activity of the sensorimotor cortex and cerebellum relates to cervical dystonia symptoms. <i>Human Brain Mapping</i> , 2017 , 38, 4563-4573	5.9	29
54	Functional MRI of disease progression in Parkinson disease and atypical parkinsonian syndromes. <i>Neurology</i> , 2016 , 87, 709-17	6.5	28
53	Subliminal gait initiation deficits in rapid eye movement sleep behavior disorder: A harbinger of freezing of gait?. <i>Movement Disorders</i> , 2016 , 31, 1711-1719	7	28

52	Development and Validation of the Automated Imaging Differentiation in Parkinsonism (AID-P): A Multi-Site Machine Learning Study. <i>The Lancet Digital Health</i> , 2019 , 1, e222-e231	14.4	27
51	Progressive resistance exercise restores some properties of the triphasic EMG pattern and improves bradykinesia: the PRET-PD randomized clinical trial. <i>Journal of Neurophysiology</i> , 2016 , 116, 2298-2311	3.2	26
50	3D Cortical electrophysiology of ballistic upper limb movement in humans. <i>NeuroImage</i> , 2015 , 115, 30-41	7.9	25
49	Multimodal dopaminergic and free-water imaging in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2019 , 62, 10-15	3.6	24
48	A Nonlinear Regression Technique for Manifold Valued Data with Applications to Medical Image Analysis 2016 ,		21
47	Automated MRI Classification in Progressive Supranuclear Palsy: A Large International Cohort Study. <i>Movement Disorders</i> , 2020 , 35, 976-983	7	20
46	In vivo imaging reveals impaired connectivity across cortical and subcortical networks in a mouse model of DYT1 dystonia. <i>Neurobiology of Disease</i> , 2016 , 95, 35-45	7.5	20
45	Beta-band oscillations in the supplementary motor cortex are modulated by levodopa and associated with functional activity in the basal ganglia. <i>NeuroImage: Clinical</i> , 2018 , 19, 559-571	5.3	20
44	Parkinson's disease diffusion MRI is not affected by acute antiparkinsonian medication. <i>NeuroImage: Clinical</i> , 2017 , 14, 417-421	5.3	19
43	Free-water and BOLD imaging changes in Parkinson's disease patients chronically treated with a MAO-B inhibitor. <i>Human Brain Mapping</i> , 2016 , 37, 2894-903	5.9	19
42	Neurite orientation dispersion and density imaging reveals white matter and hippocampal microstructure changes produced by Interleukin-6 in the TgCRND8 mouse model of amyloidosis. <i>NeuroImage</i> , 2019 , 202, 116138	7.9	19
41	The Future of Brain Imaging in Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2018 , 8, S47-S51	5.3	18
40	Depressive Symptoms are Frequent in Atypical Parkinsonian Disorders. <i>Movement Disorders Clinical Practice</i> , 2017 , 4, 191-197	2.2	17
39	The effects of unilateral versus bilateral subthalamic nucleus deep brain stimulation on prosaccades and antisaccades in Parkinson's disease. <i>Experimental Brain Research</i> , 2017 , 235, 615-626	2.3	15
38	Free-water imaging of the hippocampus is a sensitive marker of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2019 , 24, 101985	5.3	13
37	Discriminating features of gait performance in progressive supranuclear palsy. <i>Parkinsonism and Related Disorders</i> , 2015 , 21, 888-93	3.6	13
36	Genetic markers of dopaminergic transmission predict performance for older males but not females. <i>Neurobiology of Aging</i> , 2018 , 66, 180.e11-180.e21	5.6	11
35	Cortical dynamics within and between parietal and motor cortex in essential tremor. <i>Movement Disorders</i> , 2019 , 34, 95-104	7	11

34	A New MRI Measure to Early Differentiate Progressive Supranuclear Palsy From De Novo Parkinson's Disease in Clinical Practice: An International Study. <i>Movement Disorders</i> , 2021 , 36, 681-689	7	11
33	Cortical and subcortical alterations associated with precision visuomotor behavior in individuals with autism spectrum disorder. <i>Journal of Neurophysiology</i> , 2019 , 122, 1330-1341	3.2	10
32	Development of a transcallosal tractography template and its application to dementia. <i>NeuroImage</i> , 2019 , 200, 302-312	7.9	10
31	Nonlinear regression on Riemannian manifolds and its applications to Neuro-image analysis. <i>Lecture Notes in Computer Science</i> , 2015 , 9349, 719-727	0.9	10
30	Decreased number of striatal cholinergic interneurons and motor deficits in dopamine receptor 2-expressing-cell-specific Dyt1 conditional knockout mice. <i>Neurobiology of Disease</i> , 2020 , 134, 104638	7.5	10
29	Longitudinal Progression Markers of Parkinson's Disease: Current View on Structural Imaging. <i>Current Neurology and Neuroscience Reports</i> , 2018 , 18, 83	6.6	10
28	Emerging Neuroimaging Biomarkers Across Disease Stage in Parkinson Disease: A Review. <i>JAMA Neurology</i> , 2021 , 78, 1262-1272	17.2	10
27	Forebrain knock-out of torsinA reduces striatal free-water and impairs whole-brain functional connectivity in a symptomatic mouse model of DYT1 dystonia. <i>Neurobiology of Disease</i> , 2017 , 106, 124-132	7.5	9
26	Parkinson's disease biomarkers program brain imaging repository. <i>NeuroImage</i> , 2016 , 124, 1120-1124	7.9	8
25	Magnetic Resonance Imaging and Neurofilament Light in the Differentiation of Parkinsonism. <i>Movement Disorders</i> , 2020 , 35, 1388-1395	7	8
24	Diffusion magnetic resonance imaging-derived free water detects neurodegenerative pattern induced by interferon- β . <i>Brain Structure and Function</i> , 2020 , 225, 427-439	4	8
23	Quantitative Separation of Tremor and Ataxia in Essential Tremor. <i>Annals of Neurology</i> , 2020 , 88, 375-383	7.4	6
22	β Synuclein Induces Progressive Changes in Brain Microstructure and Sensory-Evoked Brain Function That Precedes Locomotor Decline. <i>Journal of Neuroscience</i> , 2020 , 40, 6649-6659	6.6	6
21	Multimodal neuroimaging and behavioral assessment of β Synuclein polymorphism rs356219 in older adults. <i>Neurobiology of Aging</i> , 2018 , 66, 32-39	5.6	5
20	Sensory and motor cortex function contributes to symptom severity in spinocerebellar ataxia type 6. <i>Brain Structure and Function</i> , 2017 , 222, 1039-1052	4	5
19	Better Brain and Cognition Prior to Surgery Is Associated With Elevated Postoperative Brain Extracellular Free-Water in Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 117	5.3	4
18	Physiological effects of subthalamic nucleus deep brain stimulation surgery in cervical dystonia. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018 , 89, 1296-1300	5.5	4
17	Reply: Visually-sensitive networks in essential tremor: evidence from structural and functional imaging. <i>Brain</i> , 2018 , 141, e48	11.2	3

16	Aducanumab reduces Aβ plaques in Alzheimer's disease. <i>Movement Disorders</i> , 2016 , 31, 1631	7	3
15	Alteration of the cholinergic system and motor deficits in cholinergic neuron-specific Dyt1 knockout mice. <i>Neurobiology of Disease</i> , 2021 , 154, 105342	7.5	3
14	The HIV protease inhibitor, ritonavir, corrects diverse brain phenotypes across development in mouse model of DYT-TOR1A dystonia. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	3
13	Visuomotor brain network activation and functional connectivity among individuals with autism spectrum disorder. <i>Human Brain Mapping</i> , 2021 ,	5.9	2
12	The abnormal firing of Purkinje cells in the knockin mouse model of DYT1 dystonia. <i>Brain Research Bulletin</i> , 2020 , 165, 14-22	3.9	2
11	Investigating the role of striatal dopamine receptor 2 in motor coordination and balance: Insights into the pathogenesis of DYT1 dystonia. <i>Behavioural Brain Research</i> , 2021 , 403, 113137	3.4	2
10	Development and Validation of Automated Magnetic Resonance Parkinsonism Index 2.0 to Distinguish Progressive Supranuclear Palsy-Parkinsonism From Parkinson's Disease.. <i>Movement Disorders</i> , 2022 ,	7	2
9	Reply: Thalamotomy for tremor normalizes aberrant pre-therapeutic visual cortex functional connectivity. <i>Brain</i> , 2019 , 142, e58	11.2	1
8	The ice test to differentiate essential tremor from Parkinson's disease tremor. <i>Clinical Neurophysiology</i> , 2017 , 128, 2181-2183	4.3	1
7	Unraveling somatotopic organization in the human brain using machine learning and adaptive supervoxel-based parcellations. <i>NeuroImage</i> , 2021 , 245, 118710	7.9	1
6	Cortical Oscillations in Cervical Dystonia and Dystonic Tremor. <i>Cerebral Cortex Communications</i> , 2020 , 1, tgaa048	1.9	1
5	Parkinson's disease progression in the substantia nigra: location, location, location. <i>Brain</i> , 2020 , 143, 2628-2630	11.2	0
4	Functional imaging of the brainstem during visually-guided motor control reveals visuomotor regions in the pons and midbrain. <i>NeuroImage</i> , 2021 , 226, 117627	7.9	0
3	Nicotine and the developing brain: Insights from preclinical models.. <i>Pharmacology Biochemistry and Behavior</i> , 2022 , 214, 173355	3.9	0
2	Advanced diffusion imaging to track progression in Parkinson's disease, multiple system atrophy, and progressive supranuclear palsy.. <i>NeuroImage: Clinical</i> , 2022 , 34, 103022	5.3	0
1	Reply to: "Experience with a New Index to Differentiate Parkinson's Disease and Progressive Supranuclear Palsy". <i>Movement Disorders</i> , 2021 , 36, 2208-2209	7	