

# George F Wittenberg

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

4,760  
citations

185998

28  
h-index

98622

67  
g-index

90  
all docs

90  
docs citations

90  
times ranked

5276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robot-Assisted Therapy for Long-Term Upper-Limb Impairment after Stroke. <i>New England Journal of Medicine</i> , 2010, 362, 1772-1783.	13.9	1,175
2	Getting Neurorehabilitation Right. <i>Neurorehabilitation and Neural Repair</i> , 2012, 26, 923-931.	1.4	473
3	Multimodal imaging of brain reorganization in motor areas of the contralesional hemisphere of well recovered patients after capsular stroke. <i>Brain</i> , 2006, 129, 791-808.	3.7	403
4	Constraint-Induced Therapy in Stroke: Magnetic-Stimulation Motor Maps and Cerebral Activation. <i>Neurorehabilitation and Neural Repair</i> , 2003, 17, 48-57.	1.4	267
5	Improving Hand Function in Chronic Stroke. <i>Archives of Neurology</i> , 2002, 59, 1278.	4.9	226
6	Roles of the Insular Cortex in the Modulation of Pain: Insights from Brain Lesions. <i>Journal of Neuroscience</i> , 2009, 29, 2684-2694.	1.7	209
7	Constraint-Induced Movement Therapy Results in Increased Motor Map Area in Subjects 3 to 9 Months After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2008, 22, 505-513.	1.4	190
8	An Economic Analysis of Robot-Assisted Therapy for Long-Term Upper-Limb Impairment After Stroke. <i>Stroke</i> , 2011, 42, 2630-2632.	1.0	139
9	Functional connectivity between somatosensory and visual cortex in early blind humans. <i>European Journal of Neuroscience</i> , 2004, 20, 1923-1927.	1.2	135
10	The contribution of the putamen to sensory aspects of pain: insights from structural connectivity and brain lesions. <i>Brain</i> , 2011, 134, 1987-2004.	3.7	119
11	Effect of Gravity on Robot-Assisted Motor Training After Chronic Stroke: A Randomized Trial. <i>Archives of Physical Medicine and Rehabilitation</i> , 2011, 92, 1754-1761.	0.5	87
12	Multicenter Randomized Trial of Robot-Assisted Rehabilitation for Chronic Stroke: Methods and Entry Characteristics for VA ROBOTICS. <i>Neurorehabilitation and Neural Repair</i> , 2009, 23, 775-783.	1.4	75
13	Bimanual coordination: A missing piece of arm rehabilitation after stroke. <i>Restorative Neurology and Neuroscience</i> , 2017, 35, 347-364.	0.4	65
14	The neural basis of constraint-induced movement therapy. <i>Current Opinion in Neurology</i> , 2009, 22, 582-588.	1.8	60
15	Function of identified interneurons in the leech elucidated using neural networks trained by back-propagation. <i>Nature</i> , 1989, 340, 468-471.	13.7	54
16	The <sc>ENIGMA</sc> Stroke Recovery Working Group: Big data neuroimaging to study brain-behavior relationships after stroke. <i>Human Brain Mapping</i> , 2022, 43, 129-148.	1.9	54
17	Experience, cortical remapping, and recovery in brain disease. <i>Neurobiology of Disease</i> , 2010, 37, 252-258.	2.1	49
18	Stimulation-Induced Within-Representation and Across-Representation Plasticity in Human Motor Cortex. <i>Journal of Neuroscience</i> , 2002, 22, 5563-5571.	1.7	47

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19	Dynamic Course of Intracortical TMS Paired-Pulse Responses During Recovery of Motor Function After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2007, 21, 568-573.	1.4	47
20	Fractal dimension assessment of brain white matter structural complexity post stroke in relation to upper-extremity motor function. <i>Brain Research</i> , 2008, 1228, 229-240.	1.1	43
21	Reduced Neural Differentiation Between Feedback Conditions After Bimanual Coordination Training with and without Augmented Visual Feedback. <i>Cerebral Cortex</i> , 2015, 25, 1958-1969.	1.6	42
22	Differential patterns of cortical reorganization following constraint-induced movement therapy during early and late period after stroke: A preliminary study. <i>NeuroRehabilitation</i> , 2014, 35, 415-426.	0.5	41
23	Motor cortical functional geometry in cerebral palsy and its relationship to disability. <i>Clinical Neurophysiology</i> , 2012, 123, 1383-1390.	0.7	40
24	Multifunctional interneurons in behavioral circuits of the medicinal leech. <i>Experientia</i> , 1988, 44, 383-389.	1.2	38
25	Complexity of Central Processing in Simple and Choice Multilimb Reaction-Time Tasks. <i>PLoS ONE</i> , 2014, 9, e90457.	1.1	38
26	Neurosteroid regulation of inhibitory synaptic transmission in the rat hippocampus in vitro. <i>Neuroscience</i> , 1999, 90, 1177-1183.	1.1	36
27	Mirror Movements Complicate Interpretation of Cerebral Activation Changes during Recovery from Subcortical Infarction. <i>Neurorehabilitation and Neural Repair</i> , 2000, 14, 213-221.	1.4	33
28	Robot-Assisted Arm Training in Chronic Stroke: Addition of Transition-to-Task Practice. <i>Neurorehabilitation and Neural Repair</i> , 2019, 33, 751-761.	1.4	33
29	A large, curated, open-source stroke neuroimaging dataset to improve lesion segmentation algorithms. <i>Scientific Data</i> , 2022, 9, .	2.4	33
30	Acute alcohol blocks neurosteroid modulation of synaptic transmission and long-term potentiation in the rat hippocampal slice. <i>Brain Research</i> , 1995, 701, 238-248.	1.1	32
31	Motor mapping in cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2009, 51, 134-139.	1.1	26
32	Psychophysiological support of increasing attentional reserve during the development of a motor skill. <i>Biological Psychology</i> , 2014, 103, 349-356.	1.1	26
33	Suppression of immune response to <i>Listeria monocytogenes</i> : mechanism(s) of immune complex suppression. <i>Infection and Immunity</i> , 1985, 50, 343-353.	1.0	26
34	Segmental specialization of neuronal connectivity in the leech. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1990, 167, 453-459.	0.7	25
35	Cerebellar-Stimulation Evoked Prefrontal Electrical Synchrony Is Modulated by GABA. <i>Cerebellum</i> , 2018, 17, 550-563.	1.4	25
36	Aberrant Middle Prefrontal-Motor Cortex Connectivity Mediates Motor Inhibitory Biomarker in Schizophrenia. <i>Biological Psychiatry</i> , 2019, 85, 49-59.	0.7	23

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37	Electrical stimulation of the external ear acutely activates noradrenergic mechanisms in humans. <i>Brain Stimulation</i> , 2021, 14, 990-1001.	0.7	23
38	Posture-related modulations in motor cortical excitability of the proximal and distal arm muscles. <i>Neuroscience Letters</i> , 2013, 533, 65-70.	1.0	20
39	Altered Taste and Stroke: A Case Report and Literature Review. <i>Topics in Stroke Rehabilitation</i> , 2013, 20, 78-86.	1.0	20
40	The Motor Cortex Has Independent Representations for Ipsilateral and Contralateral Arm Movements But Correlated Representations for Grasping. <i>Cerebral Cortex</i> , 2020, 30, 5400-5409.	1.6	19
41	Clinical Performance Measures for Stroke Rehabilitation: Performance Measures From the American Heart Association/American Stroke Association. <i>Stroke</i> , 2021, 52, e675-e700.	1.0	17
42	Neural plasticity and treatment across the lifespan for motor deficits in cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2009, 51, 130-133.	1.1	16
43	Timing of motor cortical stimulation during planar robotic training differentially impacts neuroplasticity in older adults. <i>Clinical Neurophysiology</i> , 2015, 126, 1024-1032.	0.7	16
44	Rapid plasticity of motor corticospinal system with robotic reach training. <i>Neuroscience</i> , 2013, 247, 55-64.	1.1	15
45	Arm movement maps evoked by cortical magnetic stimulation in a robotic environment. <i>Neuroscience</i> , 2010, 165, 774-781.	1.1	13
46	Predictors and brain connectivity changes associated with arm motor function improvement from intensive robotic practice in chronic stroke. <i>F1000Research</i> , 2016, 5, 2119.	0.8	12
47	Neuromuscular Electrical Stimulation and High-Protein Supplementation After Subarachnoid Hemorrhage: A Single-Center Phase 2 Randomized Clinical Trial. <i>Neurocritical Care</i> , 2021, 35, 46-55.	1.2	11
48	A Clinically Relevant Method of Analyzing Continuous Change in Robotic Upper Extremity Chronic Stroke Rehabilitation. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 703-712.	1.4	10
49	Functional neuroimaging of dressing-related skills. <i>Brain Imaging and Behavior</i> , 2014, 8, 335-345.	1.1	9
50	Predictors and brain connectivity changes associated with arm motor function improvement from intensive practice in chronic stroke. <i>F1000Research</i> , 2016, 5, 2119.	0.8	9
51	Not all brain regions are created equal for improving bimanual coordination in individuals with chronic stroke. <i>Clinical Neurophysiology</i> , 2019, 130, 1218-1230.	0.7	9
52	A Patient With Nasal Ulceration After Brain Surgery. <i>Archives of Dermatology</i> , 2005, 141, 796-8.	1.7	8
53	Chronic Stroke Sensorimotor Impairment Is Related to Smaller Hippocampal Volumes: An ENIGMA Analysis. <i>Journal of the American Heart Association</i> , 2022, 11, e025109.	1.6	8
54	Motor Recovery: How Rehabilitation Techniques and Technologies Can Enhance Recovery and Neuroplasticity. <i>Seminars in Neurology</i> , 2021, 41, 167-176.	0.5	7

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55	Corticospinal recruitment of spinal motor neurons in human stroke survivors. <i>Journal of Physiology</i> , 2021, 599, 4357-4373.	1.3	7
56	Opportunities in rehabilitation research. <i>Journal of Rehabilitation Research and Development</i> , 2013, 50, vii-xxxii.	1.6	7
57	Smaller spared subcortical nuclei are associated with worse post-stroke sensorimotor outcomes in 28 cohorts worldwide. <i>Brain Communications</i> , 2021, 3, fcab254.	1.5	7
58	Baseline Predictors of Response to Repetitive Task Practice in Chronic Stroke. <i>Neurorehabilitation and Neural Repair</i> , 0, , 154596832210951.	1.4	6
59	Evolution of TMS motor maps during recovery after stroke. <i>NeuroImage</i> , 2001, 13, 1281.	2.1	5
60	Methods for an Investigation of Neurophysiological and Kinematic Predictors of Response to Upper Extremity Repetitive Task Practice in Chronic Stroke. <i>Archives of Rehabilitation Research and Clinical Translation</i> , 2019, 1, 100024.	0.5	5
61	Age-Related Differences in Arm and Trunk Responses to First and Repeated Exposure to Laterally Induced Imbalances. <i>Brain Sciences</i> , 2020, 10, 574.	1.1	5
62	What's the perfect dose for practice to make perfect?. <i>Annals of Neurology</i> , 2016, 80, 339-341.	2.8	4
63	The relationship between visual orienting and interlimb synchrony in a patient with a superior parietal infarction: A case study. <i>Neurocase</i> , 2009, 15, 73-88.	0.2	3
64	Elastic properties and yield stress of fetal membranes. , 2011, 2011, 2123-6.		3
65	Tetanus toxin reduces local and descending regulation of the H-reflex. <i>Muscle and Nerve</i> , 2014, 49, 495-501.	1.0	3
66	Making behavioural choices with interneurons in a distributed system. , 1992, , 170-200.		3
67	213. Study of anatomical connectivity with TMS-PET in intact humans. <i>Biological Psychiatry</i> , 2000, 47, S65.	0.7	2
68	Perturbation of cortical activity elicits regional and age-dependent effects on unconstrained reaching behavior: a pilot study. <i>Experimental Brain Research</i> , 2021, 239, 3585-3600.	0.7	2
69	Normal aging affects unconstrained three-dimensional reaching against gravity with reduced vertical precision and increased co-contraction: a pilot study. <i>Experimental Brain Research</i> , 2022, 240, 1029.	0.7	2
70	Detection of Stroke-Induced Visual Neglect and Target Response Prediction Using Augmented Reality and Electroencephalography. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 1840-1850.	2.7	2
71	How do the physiology and transcallosal effects of the unaffected hemisphere change during inpatient rehabilitation after stroke?. <i>Clinical Neurophysiology</i> , 2014, 125, 1932-1933.	0.7	1
72	Contraction Phase and Force Differentially Change Motor Evoked Potential Recruitment Slope and Interhemispheric Inhibition in Young Versus Old. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 581008.	1.0	1

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73	Real-World Adherence to OnabotulinumtoxinA Treatment for Spasticity: Insights From the ASPIRE Study. Archives of Physical Medicine and Rehabilitation, 2021, 102, 2172-2184.e6.	0.5	1
74	Examining the influence of mental stress on balance perturbation responses in older adults. Experimental Gerontology, 2021, 153, 111495.	1.2	1
75	Poster 140: Transcranial Magnetic Stimulation of Primary Motor Cortex: Effects on Robotic Reach Training. Archives of Physical Medicine and Rehabilitation, 2010, 91, e47-e48.	0.5	0
76	Poster 4 Posture-Related Modulation in Motor Cortical Excitability of Proximal and Distal Upper Extremity Muscles. Archives of Physical Medicine and Rehabilitation, 2012, 93, e15-e16.	0.5	0
77	Adherence to OnabotulinumtoxinA Treatment in Post-Stroke and Multiple Sclerosis Patients with Spasticity from the ASPIRE Study. Archives of Physical Medicine and Rehabilitation, 2020, 101, e2.	0.5	0
78	Anatomical and Physiological Predictors of Recovery. , 0, , .		0