

# Stephan P Swinnen

## List of Publications by Year in descending order

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316  
papers

19,198  
citations

13099

68  
h-index

19190

118  
g-index

345  
all docs

345  
docs citations

345  
times ranked

14285  
citing authors

#	ARTICLE	IF	CITATIONS
1	Age-Related Differences of Frequency-Dependent Functional Connectivity in Brain Networks and Their Link to Motor Performance. <i>Brain Connectivity</i> , 2022, 12, 686-698.	1.7	6
2	The role of MRS-assessed GABA in human behavioral performance. <i>Progress in Neurobiology</i> , 2022, 212, 102247.	5.7	19
3	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.	1.5	2
4	Network-specific differences in transient brain activity at rest are associated with age-related reductions in motor performance. <i>NeuroImage</i> , 2022, 252, 119025.	4.2	0
5	Task-Related Modulation of Sensorimotor GABA+ Levels in Association with Brain Activity and Motor Performance: A Multimodal MRSâ€“fMRI Study in Young and Older Adults. <i>Journal of Neuroscience</i> , 2022, 42, 1119-1130.	3.6	2
6	Connectivity in Large-Scale Resting-State Brain Networks Is Related to Motor Learning: A High-Density EEG Study. <i>Brain Sciences</i> , 2022, 12, 530.	2.3	2
7	The interaction between endogenous GABA, functional connectivity, and behavioral flexibility is critically altered with advanced age. <i>Communications Biology</i> , 2022, 5, 426.	4.4	3
8	RT-NET: real-time reconstruction of neural activity using high-density electroencephalography. <i>Neuroinformatics</i> , 2021, 19, 251-266.	2.8	7
9	Age-related GABAergic differences in the primary sensorimotor cortex: A multimodal approach combining PET, MRS and TMS. <i>NeuroImage</i> , 2021, 226, 117536.	4.2	18
10	Longitudinal fixel-based analysis reveals restoration of white matter alterations following balance training in young brain-injured patients. <i>NeuroImage: Clinical</i> , 2021, 30, 102621.	2.7	12
11	Dissociating the causal role of left and right dorsal premotor cortices in planning and executing bimanual movements â€“ A neuro-navigated rTMS study. <i>Brain Stimulation</i> , 2021, 14, 423-434.	1.6	14
12	GABA levels are differentially associated with bimanual motor performance in older as compared to young adults. <i>NeuroImage</i> , 2021, 231, 117871.	4.2	16
13	High-Order Interdependencies in the Aging Brain. <i>Brain Connectivity</i> , 2021, 11, 734-744.	1.7	29
14	Cognition and action: a latent variable approach to study contributions of executive functions to motor control in older adults. <i>Aging</i> , 2021, 13, 15942-15963.	3.1	11
15	Hippocampal and striatal responses during motor learning are modulated by prefrontal cortex stimulation. <i>NeuroImage</i> , 2021, 237, 118158.	4.2	13
16	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.	1.5	2
17	A role for GABA in the modulation of striatal and hippocampal systems under stress. <i>Communications Biology</i> , 2021, 4, 1033.	4.4	7
18	Small variation in dynamic functional connectivity in cerebellar networks. <i>Neurocomputing</i> , 2021, 461, 751-761.	5.9	9

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19	Indices of callosal axonal density and radius from diffusion MRI relate to upper and lower limb motor performance. <i>NeuroImage</i> , 2021, 241, 118433.	4.2	2
20	Neurophysiological modulations in the (pre)motor-motor network underlying age-related increases in reaction time and the role of GABA levels – a bimodal TMS-MRS study. <i>NeuroImage</i> , 2021, 243, 118500.	4.2	9
21	Frequency drift in MR spectroscopy at 3T. <i>NeuroImage</i> , 2021, 241, 118430.	4.2	28
22	Prefronto-Striatal Structural Connectivity Mediates Adult Age Differences in Action Selection. <i>Journal of Neuroscience</i> , 2021, 41, 331-341.	3.6	9
23	Brain Structural and Functional Connectivity: A Review of Combined Works of Diffusion Magnetic Resonance Imaging and Electro-Encephalography. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 721206.	2.0	33
24	Prefrontal stimulation prior to motor sequence learning alters multivoxel patterns in the striatum and the hippocampus. <i>Scientific Reports</i> , 2021, 11, 20572.	3.3	6
25	Retention of touchscreen skills is compromised in Parkinson’s disease. <i>Behavioural Brain Research</i> , 2020, 378, 112265.	2.2	8
26	Task-related measures of short-interval intracortical inhibition and GABA levels in healthy young and older adults: A multimodal TMS-MRS study. <i>NeuroImage</i> , 2020, 208, 116470.	4.2	35
27	Neurometabolic Correlates of Reactive and Proactive Motor Inhibition in Young and Older Adults: Evidence from Multiple Regional 1H-MR Spectroscopy. <i>Cerebral Cortex Communications</i> , 2020, 1, tgaa028.	1.6	7
28	Lateralized effects of post-learning transcranial direct current stimulation on motor memory consolidation in older adults: An fMRI investigation. <i>NeuroImage</i> , 2020, 223, 117323.	4.2	12
29	Frequency-dependent functional connectivity in resting state networks. <i>Human Brain Mapping</i> , 2020, 41, 5187-5198.	3.6	43
30	The role of the PMd in task complexity: functional connectivity is modulated by motor learning and age. <i>Neurobiology of Aging</i> , 2020, 92, 12-27.	3.1	6
31	Induced Suppression of the Left Dorsolateral Prefrontal Cortex Favorably Changes Interhemispheric Communication During Bimanual Coordination in Older Adults – A Neuronavigated rTMS Study. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 149.	3.4	11
32	Baseline sensorimotor GABA levels shape neuroplastic processes induced by motor learning in older adults. <i>Human Brain Mapping</i> , 2020, 41, 3680-3695.	3.6	21
33	Skill acquisition is enhanced by reducing trial-to-trial repetition. <i>Journal of Neurophysiology</i> , 2020, 123, 1460-1471.	1.8	11
34	Comparison of Multivendor Single-Voxel MR Spectroscopy Data Acquired in Healthy Brain at 26 Sites. <i>Radiology</i> , 2020, 295, 171-180.	7.3	31
35	Fiber-specific variations in anterior transcallosal white matter structure contribute to age-related differences in motor performance. <i>NeuroImage</i> , 2020, 209, 116530.	4.2	17
36	A computationally efficient method for the attenuation of alternating current stimulation artifacts in electroencephalographic recordings. <i>Journal of Neural Engineering</i> , 2020, 17, 046038.	3.5	8

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37	Alterations of hand sensorimotor function and cortical motor representations over the adult lifespan. <i>Aging</i> , 2020, 12, 4617-4640.	3.1	8
38	Sensorimotor cortex neurometabolite levels as correlate of motor performance in normal aging: evidence from a 1H-MRS study. <i>NeuroImage</i> , 2019, 202, 116050.	4.2	22
39	Schema and Motor-Memory Consolidation. <i>Psychological Science</i> , 2019, 30, 963-978.	3.3	16
40	Big GABA II: Water-referenced edited MR spectroscopy at 25 research sites. <i>NeuroImage</i> , 2019, 191, 537-548.	4.2	76
41	Age-related differences in network flexibility and segregation at rest and during motor performance. <i>NeuroImage</i> , 2019, 194, 93-104.	4.2	26
42	Distinct online and offline effects of alpha and beta transcranial alternating current stimulation (tACS) on continuous bimanual performance and task-set switching. <i>Scientific Reports</i> , 2019, 9, 3144.	3.3	30
43	Hand, foot and lip representations in primary sensorimotor cortex: a high-density electroencephalography study. <i>Scientific Reports</i> , 2019, 9, 19464.	3.3	65
44	A combined diffusion-weighted and electroencephalography study on age-related differences in connectivity in the motor network during bimanual performance. <i>Human Brain Mapping</i> , 2019, 40, 1799-1813.	3.6	16
45	Glucocorticoid response to stress induction prior to learning is negatively related to subsequent motor memory consolidation. <i>Neurobiology of Learning and Memory</i> , 2019, 158, 32-41.	1.9	15
46	Age-related alterations in the modulation of intracortical inhibition during stopping of actions. <i>Aging</i> , 2019, 11, 371-385.	3.1	27
47	Motor inhibition efficiency in healthy aging: the role of $\gamma$ -aminobutyric acid. <i>Neural Regeneration Research</i> , 2019, 14, 741.	3.0	12
48	Challenge to Promote Change: The Neural Basis of the Contextual Interference Effect in Young and Older Adults. <i>Journal of Neuroscience</i> , 2018, 38, 3333-3345.	3.6	22
49	Cerebellar gray matter explains bimanual coordination performance in children and older adults. <i>Neurobiology of Aging</i> , 2018, 65, 109-120.	3.1	18
50	GABA levels and measures of intracortical and interhemispheric excitability in healthy young and older adults: an MRS-TMS study. <i>Neurobiology of Aging</i> , 2018, 65, 168-177.	3.1	62
51	White matter microstructural organisation of interhemispheric pathways predicts different stages of bimanual coordination learning in young and older adults. <i>European Journal of Neuroscience</i> , 2018, 47, 446-459.	2.6	9
52	Being on Target: Visual Information during Writing Affects Effective Connectivity in Parkinson's Disease. <i>Neuroscience</i> , 2018, 371, 484-494.	2.3	9
53	Age-related differences in GABA levels are driven by bulk tissue changes. <i>Human Brain Mapping</i> , 2018, 39, 3652-3662.	3.6	47
54	The neurochemical basis of the contextual interference effect. <i>Neurobiology of Aging</i> , 2018, 66, 85-96.	3.1	35

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55	Behavioral and Neural Evidence of the Rewarding Value of Exercise Behaviors: A Systematic Review. <i>Sports Medicine</i> , 2018, 48, 1389-1404.	6.5	77
56	Anatomy of Subcortical Structures Predicts Age-Related Differences in Skill Acquisition. <i>Cerebral Cortex</i> , 2018, 28, 459-473.	2.9	25
57	Altered effective connectivity contributes to micrographia in patients with Parkinson's disease and freezing of gait. <i>Journal of Neurology</i> , 2018, 265, 336-347.	3.6	12
58	Aging and GABA. <i>Aging</i> , 2018, 10, 1186-1187.	3.1	23
59	Interaction Information Along Lifespan of the Resting Brain Dynamics Reveals a Major Redundant Role of the Default Mode Network. <i>Entropy</i> , 2018, 20, 742.	2.2	17
60	Aging and brain plasticity. <i>Aging</i> , 2018, 10, 1789-1790.	3.1	42
61	Brain GABA Levels Are Associated with Inhibitory Control Deficits in Older Adults. <i>Journal of Neuroscience</i> , 2018, 38, 7844-7851.	3.6	82
62	Age-Dependent Modulations of Resting State Connectivity Following Motor Practice. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 25.	3.4	31
63	Training for Micrographia Alters Neural Connectivity in Parkinson's Disease. <i>Frontiers in Neuroscience</i> , 2018, 12, 3.	2.8	16
64	Structure-function multi-scale connectomics reveals a major role of the fronto-striato-thalamic circuit in brain aging. <i>Human Brain Mapping</i> , 2018, 39, 4663-4677.	3.6	45
65	Different neural substrates for precision stepping and fast online step adjustments in youth. <i>Brain Structure and Function</i> , 2018, 223, 2039-2053.	2.3	15
66	Neural correlates of action: Comparing meta-analyses of imagery, observation, and execution. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 94, 31-44.	6.1	440
67	Aging, inhibition and GABA. <i>Aging</i> , 2018, 10, 3645-3646.	3.1	9
68	Cortical grey matter content is associated with both age and bimanual performance, but is not observed to mediate age-related behavioural decline. <i>Brain Structure and Function</i> , 2017, 222, 437-448.	2.3	9
69	Two hands, one brain, and aging. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 75, 234-256.	6.1	94
70	Preconditioning tDCS facilitates subsequent tDCS effect on skill acquisition in older adults. <i>Neurobiology of Aging</i> , 2017, 51, 31-42.	3.1	50
71	Direct eye contact enhances mirroring of others' movements: A transcranial magnetic stimulation study. <i>Neuropsychologia</i> , 2017, 95, 111-118.	1.6	24
72	Big GABA: Edited MR spectroscopy at 24 research sites. <i>NeuroImage</i> , 2017, 159, 32-45.	4.2	143

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73	Relative cortico-subcortical shift in brain activity but preserved training-induced neural modulation in older adults during bimanual motor learning. <i>Neurobiology of Aging</i> , 2017, 58, 54-67.	3.1	37
74	Neural processing of biological motion in autism: An investigation of brain activity and effective connectivity. <i>Scientific Reports</i> , 2017, 7, 5612.	3.3	26
75	Reliable estimation of inhibitory efficiency: to anticipate, choose or simply react?. <i>European Journal of Neuroscience</i> , 2017, 45, 1512-1523.	2.6	28
76	Neural predictors of motor control and impact of visuo-â€proprioceptive information in youth. <i>Human Brain Mapping</i> , 2017, 38, 5628-5647.	3.6	6
77	Proactive Response Inhibition and Subcortical Gray Matter Integrity in Traumatic Brain Injury. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 228-239.	2.9	10
78	Coordinative task difficulty and behavioural errors are associated with increased long-range beta band synchronization. <i>NeuroImage</i> , 2017, 146, 883-893.	4.2	19
79	Regional Gray Matter Volume Loss Is Associated with Gait Impairments in Young Brain-Injured Individuals. <i>Journal of Neurotrauma</i> , 2017, 34, 1022-1034.	3.4	17
80	Individual differences in brainstem and basal ganglia structure predict postural control and balance loss in young and older adults. <i>Neurobiology of Aging</i> , 2017, 50, 47-59.	3.1	52
81	Physical Activity Predicts Performance in an Unpracticed Bimanual Coordination Task. <i>Frontiers in Psychology</i> , 2017, 8, 249.	2.1	4
82	Handwriting training in Parkinsonâ€™s disease: A trade-off between size, speed and fluency. <i>PLoS ONE</i> , 2017, 12, e0190223.	2.5	21
83	Enhanced prefrontal functionalâ€structural networks to support postural control deficits after traumatic brain injury in a pediatric population. <i>Network Neuroscience</i> , 2017, 1, 116-142.	2.6	32
84	Effect of Aging on Motor Inhibition during Action Preparation under Sensory Conflict. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 322.	3.4	57
85	Reconsolidation of Motor Memories Is a Time-Dependent Process. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 408.	2.0	17
86	Relearning of Writing Skills in Parkinson's Disease After Intensive Amplitude Training. <i>Movement Disorders</i> , 2016, 31, 1209-1216.	3.9	36
87	Nucleus accumbens and caudate atrophy predicts longer action selection times in young and old adults. <i>Human Brain Mapping</i> , 2016, 37, 4629-4639.	3.6	22
88	Performing two different actions simultaneously: The critical role of interhemispheric interactions during the preparation of bimanual movement. <i>Cortex</i> , 2016, 77, 141-154.	2.4	51
89	Whole-brain grey matter density predicts balance stability irrespective of age and protects older adults from falling. <i>Gait and Posture</i> , 2016, 45, 143-150.	1.4	12
90	Evaluation of a Modified High-Definition Electrode Montage for Transcranial Alternating Current Stimulation (tACS) of Pre-Central Areas. <i>Brain Stimulation</i> , 2016, 9, 700-704.	1.6	46

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91	Handwriting Impairments in People With Parkinson's Disease and Freezing of Gait. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 911-919.	2.9	27
92	Computational neurorehabilitation: modeling plasticity and learning to predict recovery. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 42.	4.6	125
93	Alterations in brain white matter contributing to age-related slowing of task switching performance: The role of radial diffusivity and magnetization transfer ratio. <i>Human Brain Mapping</i> , 2016, 37, 4084-4098.	3.6	12
94	A proactive task set influences how response inhibition is implemented in the basal ganglia. <i>Human Brain Mapping</i> , 2016, 37, 4706-4717.	3.6	37
95	Movement preparation and execution: differential functional activation patterns after traumatic brain injury. <i>Brain</i> , 2016, 139, 2469-2485.	7.6	18
96	tDCS over left M1 or DLPFC does not improve learning of a bimanual coordination task. <i>Scientific Reports</i> , 2016, 6, 35739.	3.3	33
97	Motor facilitation during action observation: The role of M1 and PMv in grasp predictions. <i>Cortex</i> , 2016, 75, 180-192.	2.4	24
98	Functional Brain Activation Associated with Inhibitory Control Deficits in Older Adults. <i>Cerebral Cortex</i> , 2016, 26, 12-22.	2.9	89
99	Sex differences in autism: a resting-state fMRI investigation of functional brain connectivity in males and females. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 1002-1016.	3.0	151
100	Age-Related Changes in Frontal Network Structural and Functional Connectivity in Relation to Bimanual Movement Control. <i>Journal of Neuroscience</i> , 2016, 36, 1808-1822.	3.6	75
101	Slow maturation of planning in obstacle avoidance in humans. <i>Journal of Neurophysiology</i> , 2016, 115, 404-412.	1.8	11
102	Subcortical Volume Loss in the Thalamus, Putamen, and Pallidum, Induced by Traumatic Brain Injury, Is Associated With Motor Performance Deficits. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 603-614.	2.9	39
103	Opposite Effects of Visual Cueing During Writing-Like Movements of Different Amplitudes in Parkinson's Disease. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 431-439.	2.9	25
104	Impaired Retention of Motor Learning of Writing Skills in Patients with Parkinson's Disease with Freezing of Gait. <i>PLoS ONE</i> , 2016, 11, e0148933.	2.5	32
105	Gait asymmetry during early split-belt walking is related to perception of belt speed difference. <i>Journal of Neurophysiology</i> , 2015, 114, 1705-1712.	1.8	27
106	Adaptation and aftereffects of split-belt walking in cerebellar lesion patients. <i>Journal of Neurophysiology</i> , 2015, 114, 1693-1704.	1.8	27
107	Virtual water maze learning in human increases functional connectivity between posterior hippocampus and dorsal caudate. <i>Human Brain Mapping</i> , 2015, 36, 1265-1277.	3.6	43
108	Regional volumes in brain stem and cerebellum are associated with postural impairments in young brain-injured patients. <i>Human Brain Mapping</i> , 2015, 36, 4897-4909.	3.6	31

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109	Cutaneous reflex modulation and self-induced reflex attenuation in cerebellar patients. <i>Journal of Neurophysiology</i> , 2015, 113, 915-924.	1.8	7
110	Challenge to promote change: both young and older adults benefit from contextual interference. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 157.	3.4	27
111	Age-related deficit in a bimanual joint position matching task is amplitude dependent. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 162.	3.4	13
112	Reduced Neural Differentiation Between Feedback Conditions After Bimanual Coordination Training with and without Augmented Visual Feedback. <i>Cerebral Cortex</i> , 2015, 25, 1958-1969.	2.9	42
113	Training-induced improvements in postural control are accompanied by alterations in cerebellar white matter in brain injured patients. <i>NeuroImage: Clinical</i> , 2015, 7, 240-251.	2.7	50
114	Subcortical volumetric changes across the adult lifespan: Subregional thalamic atrophy accounts for age-related sensorimotor performance declines. <i>Cortex</i> , 2015, 65, 128-138.	2.4	33
115	Toward new sensitive measures to evaluate gait stability in focal cerebellar lesion patients. <i>Gait and Posture</i> , 2015, 41, 592-596.	1.4	35
116	Neural Correlates of Motor Deficits in Young Patients with Traumatic Brain Injury. , 2015, , 461-468.		3
117	Bimanual Coordination. , 2015, , 475-482.		30
118	Associations between Muscle Strength Asymmetry and Impairments in Gait and Posture in Young Brain-Injured Patients. <i>Journal of Neurotrauma</i> , 2015, 32, 1324-1332.	3.4	20
119	Microstructural changes in white matter associated with freezing of gait in Parkinson's disease. <i>Movement Disorders</i> , 2015, 30, 567-576.	3.9	93
120	Granularity of the mirror neuron system: A complex endeavor. <i>Physics of Life Reviews</i> , 2015, 12, 120-122.	2.8	2
121	Resting-State Functional Connectivity of the Sensorimotor Network in Individuals with Nonspecific Low Back Pain and the Association with the Sit-to-Stand-to-Sit Task. <i>Brain Connectivity</i> , 2015, 5, 303-311.	1.7	49
122	Bimanual motor deficits in older adults predicted by diffusion tensor imaging metrics of corpus callosum subregions. <i>Brain Structure and Function</i> , 2015, 220, 273-290.	2.3	64
123	Functional Connectivity Density and Balance in Young Patients with Traumatic Axonal Injury. <i>Brain Connectivity</i> , 2015, 5, 423-432.	1.7	25
124	Functional Organization of the Action Observation Network in Autism: A Graph Theory Approach. <i>PLoS ONE</i> , 2015, 10, e0137020.	2.5	31
125	Amplitude Manipulation Evokes Upper Limb Freezing during Handwriting in Patients with Parkinson's Disease with Freezing of Gait. <i>PLoS ONE</i> , 2015, 10, e0142874.	2.5	24
126	Complexity of Central Processing in Simple and Choice Multilimb Reaction-Time Tasks. <i>PLoS ONE</i> , 2014, 9, e90457.	2.5	38



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127	Contextual Interference in Complex Bimanual Skill Learning Leads to Better Skill Persistence. PLoS ONE, 2014, 9, e100906.	2.5	39
128	Changes in Corticomotor Excitability and Intracortical Inhibition of the Primary Motor Cortex Forearm Area Induced by Anodal tDCS. PLoS ONE, 2014, 9, e101496.	2.5	14
129	Vision of the active limb impairs bimanual motor tracking in young and older adults. Frontiers in Aging Neuroscience, 2014, 6, 320.	3.4	16
130	Proprioception in the cerebellum. Frontiers in Human Neuroscience, 2014, 8, 212.	2.0	21
131	Task switching in traumatic brain injury relates to cortico-subcortical integrity. Human Brain Mapping, 2014, 35, 2459-2469.	3.6	34
132	Arm sway holds sway: Locomotor-like modulation of leg reflexes when arms swing in alternation. Neuroscience, 2014, 258, 34-46.	2.3	17
133	White matter organization in relation to upper limb motor control in healthy subjects: exploring the added value of diffusion kurtosis imaging. Brain Structure and Function, 2014, 219, 1627-1638.	2.3	17
134	The effects of dual tasking on handwriting in patients with Parkinson's disease. Neuroscience, 2014, 263, 193-202.	2.3	57
135	Subcortical volume analysis in traumatic brain injury: The importance of the fronto-striato-thalamic circuit in task switching. Cortex, 2014, 51, 67-81.	2.4	62
136	Aging and motor inhibition: A converging perspective provided by brain stimulation and imaging approaches. Neuroscience and Biobehavioral Reviews, 2014, 43, 100-117.	6.1	124
137	Interactions between brain structure and behavior: The corpus callosum and bimanual coordination. Neuroscience and Biobehavioral Reviews, 2014, 43, 1-19.	6.1	126
138	Aging effects on the resting state motor network and interlimb coordination. Human Brain Mapping, 2014, 35, 3945-3961.	3.6	53
139	Understanding bimanual coordination across small time scales from an electrophysiological perspective. Neuroscience and Biobehavioral Reviews, 2014, 47, 614-635.	6.1	40
140	Underconnectivity of the superior temporal sulcus predicts emotion recognition deficits in autism. Social Cognitive and Affective Neuroscience, 2014, 9, 1589-1600.	3.0	106
141	White matter microstructural organization and gait stability in older adults. Frontiers in Aging Neuroscience, 2014, 6, 104.	3.4	62
142	Assessing age-related gray matter decline with voxel-based morphometry depends significantly on segmentation and normalization procedures. Frontiers in Aging Neuroscience, 2014, 6, 124.	3.4	52
143	Microstructural Integrity of the Superior Cerebellar Peduncle Is Associated with an Impaired Proprioceptive Weighting Capacity in Individuals with Non-Specific Low Back Pain. PLoS ONE, 2014, 9, e100666.	2.5	32
144	Diffusion tensor imaging metrics of the corpus callosum in relation to bimanual coordination: Effect of task complexity and sensory feedback. Human Brain Mapping, 2013, 34, 241-252.	3.6	57

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145	Disturbed cortico-subcortical interactions during motor task switching in traumatic brain injury. <i>Human Brain Mapping</i> , 2013, 34, 1254-1271.	3.6	39
146	Long-term TENS treatment decreases cortical motor representation in multiple sclerosis. <i>Neuroscience</i> , 2013, 250, 1-7.	2.3	7
147	Anodal tDCS increases corticospinal output and projection strength in multiple sclerosis. <i>Neuroscience Letters</i> , 2013, 554, 151-155.	2.1	39
148	Relearning of writing skills in Parkinson's disease: A literature review on influential factors and optimal strategies. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 349-357.	6.1	33
149	Age-related differences in attentional cost associated with postural dual tasks: Increased recruitment of generic cognitive resources in older adults. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 1824-1837.	6.1	230
150	Homologous involvement of striatum and prefrontal cortex in rodent and human water maze learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3131-3136.	7.1	76
151	Interlimb Coordination during Forward and Backward Walking in Primary School-Aged Children. <i>PLoS ONE</i> , 2013, 8, e62747.	2.5	13
152	Bimanual Motor Coordination in Older Adults Is Associated with Increased Functional Brain Connectivity – A Graph-Theoretical Analysis. <i>PLoS ONE</i> , 2013, 8, e62133.	2.5	43
153	Topological correlations of structural and functional networks in patients with traumatic brain injury. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 726.	2.0	77
154	Cortical regions involved in the observation of bimanual actions. <i>Journal of Neurophysiology</i> , 2012, 108, 2594-2611.	1.8	12
155	Graph analysis of functional brain networks for cognitive control of action in traumatic brain injury. <i>Brain</i> , 2012, 135, 1293-1307.	7.6	117
156	Aging and Inhibitory Control of Action: Cortico-Subthalamic Connection Strength Predicts Stopping Performance. <i>Journal of Neuroscience</i> , 2012, 32, 8401-8412.	3.6	149
157	Abnormalities and Cue Dependence of Rhythmical Upper-Limb Movements in Parkinson Patients With Freezing of Gait. <i>Neurorehabilitation and Neural Repair</i> , 2012, 26, 636-645.	2.9	78
158	Split-belt walking: adaptation differences between young and older adults. <i>Journal of Neurophysiology</i> , 2012, 108, 1149-1157.	1.8	81
159	Brain connectivity and postural control in young traumatic brain injury patients: A diffusion MRI based network analysis. <i>NeuroImage: Clinical</i> , 2012, 1, 106-115.	2.7	84
160	Is interlimb coordination during walking preserved in children with cerebral palsy?. <i>Research in Developmental Disabilities</i> , 2012, 33, 1418-1428.	2.2	59
161	White matter fractional anisotropy predicts balance performance in older adults. <i>Neurobiology of Aging</i> , 2012, 33, 1900-1912.	3.1	52
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