Stephan P Swinnen

List of Publications by Year
in descending order

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	Intermanual coordination: From behavioural principles to neural-network interactions. Nature Reviews Neuroscience, 2002, 3, 348-359.	10.2	641
2	Effect of 6-Month Whole Body Vibration Training on Hip Density, Muscle Strength, and Postural Control in Postmenopausal Women: A Randomized Controlled Pilot Study. Journal of Bone and Mineral Research, 2003, 19, 352-359.	2.8	602
3	Neural correlates of action: Comparing meta-analyses of imagery, observation, and execution. Neuroscience and Biobehavioral Reviews, 2018, 94, 31-44.	6.1	440
4	Systems Neuroplasticity in the Aging Brain: Recruiting Additional Neural Resources for Successful Motor Performance in Elderly Persons. Journal of Neuroscience, 2008, 28, 91-99.	3.6	431
5	Two hands, one brain: cognitive neuroscience of bimanual skill. Trends in Cognitive Sciences, 2004, 8, 18-25.	7.8	425
6	Dynamics of hemispheric specialization and integration in the context of motor control. Nature Reviews Neuroscience, 2006, 7, 160-166.	10.2	418
7	The Role of Paraspinal Muscle Spindles in Lumbosacral Position Sense in Individuals With and Without Low Back Pain. Spine, 2000, 25, 989-994.	2.0	392
8	Neural Basis of Aging: The Penetration of Cognition into Action Control. Journal of Neuroscience, 2005, 25, 6787-6796.	3.6	378
9	Kinesthetic, but not visual, motor imagery modulates corticomotor excitability. Experimental Brain Research, 2006, 168, 157-164.	1.5	371
10	Proprioceptive sensibility in the elderly: Degeneration, functional consequences and plastic-adaptive processes. Neuroscience and Biobehavioral Reviews, 2009, 33, 271-278.	6.1	316
11	Brain Areas Involved in Interlimb Coordination: A Distributed Network. NeuroImage, 2001, 14, 947-958.	4.2	295
12	Internal vs external generation of movements: differential neural pathways involved in bimanual coordination performed in the presence or absence of augmented visual feedback. NeuroImage, 2003, 19, 764-776.	4.2	288
13	The role of anterior cingulate cortex and precuneus in the coordination of motor behaviour. European Journal of Neuroscience, 2005, 22, 235-246.	2.6	270
14	Changes in Brain Activation during the Acquisition of a Multifrequency Bimanual Coordination Task: From the Cognitive Stage to Advanced Levels of Automaticity. Journal of Neuroscience, 2005, 25, 4270-4278.	3.6	260
15	Cognitive Effort and Motor Learning. Quest, 1994, 46, 328-344.	1.2	237
16	Age-related differences in attentional cost associated with postural dual tasks: Increased recruitment of generic cognitive resources in older adults. Neuroscience and Biobehavioral Reviews, 2013, 37, 1824-1837.	6.1	230
17	Changes in brain activation during the acquisition of a new bimanual coordination task. Neuropsychologia, 2004, 42, 855-867.	1.6	209
18	Cerebellar and premotor function in bimanual coordination: parametric neural responses to spatiotemporal complexity and cycling frequency. NeuroImage, 2004, 21, 1416-1427.	4.2	183

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19	Relative Phase Alterations during Bimanual Skill Acquisition. Journal of Motor Behavior, 1995, 27, 263-274.	0.9	180
20	Control of asymmetrical bimanual movements. Experimental Brain Research, 1991, 85, 163-73.	1.5	173
21	Egocentric and Allocentric Constraints in the Expression of Patterns of Interlimb Coordination. Journal of Cognitive Neuroscience, 1997, 9, 348-377.	2.3	170
22	Brain Activity during Ankle Proprioceptive Stimulation Predicts Balance Performance in Young and Older Adults. Journal of Neuroscience, 2011, 31, 16344-16352.	3.6	162
23	Action and Emotion Recognition from Point Light Displays: An Investigation of Gender Differences. PLoS ONE, 2011, 6, e20989.	2.5	153
24	Sex differences in autism: a resting-state fMRI investigation of functional brain connectivity in males and females. Social Cognitive and Affective Neuroscience, 2016, 11, 1002-1016.	3.0	151
25	Relative phase destabilization during interlimb coordination: the disruptive role of kinesthetic afferences induced by passive movement. Experimental Brain Research, 1990, 105, 439-54.	1.5	150
26	Aging and Inhibitory Control of Action: Cortico-Subthalamic Connection Strength Predicts Stopping Performance. Journal of Neuroscience, 2012, 32, 8401-8412.	3.6	149
27	Interlimb coordination: Learning and transfer under different feedback conditions. Human Movement Science, 1997, 16, 749-785.	1.4	144
28	Big GABA: Edited MR spectroscopy at 24 research sites. NeuroImage, 2017, 159, 32-45.	4.2	143
29	Motor Learning with Augmented Feedback: Modality-Dependent Behavioral and Neural Consequences. Cerebral Cortex, 2011, 21, 1283-1294.	2.9	142
30	Information feedback for skill acquisition: Instantaneous knowledge of results degrades learning.. Journal of Experimental Psychology: Learning Memory and Cognition, 1990, 16, 706-716.	0.9	140
31	Between-limb asynchronies during bimanual coordination: Effects of manual dominance and attentional cueing. Neuropsychologia, 1996, 34, 1203-1213.	1.6	135
32	The neural control of bimanual movements in the elderly: Brain regions exhibiting ageâ€related increases in activity, frequencyâ€induced neural modulation, and taskâ€specific compensatory recruitment. Human Brain Mapping, 2010, 31, 1281-1295.	3.6	134
33	The neural basis of central proprioceptive processing in older versus younger adults: An important sensory role for right putamen. Human Brain Mapping, 2012, 33, 895-908.	3.6	131
34	Spatial Conceptual Influences on the Coordination of Bimanual Actions: When a Dual Task Becomes a Single Task. Journal of Motor Behavior, 2001, 33, 103-112.	0.9	127
35	Interactions between brain structure and behavior: The corpus callosum and bimanual coordination. Neuroscience and Biobehavioral Reviews, 2014, 43, 1-19.	6.1	126
36	Computational neurorehabilitation: modeling plasticity and learning to predict recovery. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 42.	4.6	125

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37	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
38	Parieto-premotor Areas Mediate Directional Interference During Bimanual Movements. Cerebral Cortex, 2004, 14, 1153-1163.	2.9	123
39	Exploring interlimb constraints during bimanual graphic performance: effects of muscle grouping and direction. Behavioural Brain Research, 1998, 90, 79-87.	2.2	121
40	AGE-RELATED DEFICITS IN MOTOR LEARNING AND DIFFERENCES IN FEEDBACK PROCESSING DURING THE PRODUCTION OF A BIMANUAL COORDINATION PATTERN. Cognitive Neuropsychology, 1998, 15, 439-466.	1.1	121
41	Upper limb movement interruptions are correlated to freezing of gait in Parkinsonâ€™s disease. European Journal of Neuroscience, 2009, 29, 1422-1430.	2.6	118
42	Graph analysis of functional brain networks for cognitive control of action in traumatic brain injury. Brain, 2012, 135, 1293-1307.	7.6	117
43	Adaptive Tuning of Interlimb Attraction to Facilitate Bimanual Decoupling. Journal of Motor Behavior, 1992, 24, 95-104.	0.9	114
44	Force requirements of observed object lifting are encoded by the observerâ€™s motor system: a TMS study. European Journal of Neuroscience, 2010, 31, 1144-1153.	2.6	106
45	Underconnectivity of the superior temporal sulcus predicts emotion recognition deficits in autism. Social Cognitive and Affective Neuroscience, 2014, 9, 1589-1600.	3.0	106
46	How are observed actions mapped to the observerâ€™s motor system? Influence of posture and perspective. Neuropsychologia, 2009, 47, 415-422.	1.6	101
47	The effect of aging on dynamic position sense at the ankle. Behavioural Brain Research, 2002, 136, 593-603.	2.2	95
48	Two hands, one brain, and aging. Neuroscience and Biobehavioral Reviews, 2017, 75, 234-256.	6.1	94
49	Effect of Paraspinal Muscle Vibration on Position Sense of the Lumbosacral Spine. Spine, 1999, 24, 1328.	2.0	93
50	Microstructural changes in white matter associated with freezing of gait in Parkinson's disease. Movement Disorders, 2015, 30, 567-576.	3.9	93
51	Functional Brain Activation Associated with Inhibitory Control Deficits in Older Adults. Cerebral Cortex, 2016, 26, 12-22.	2.9	89
52	Interaction of directional, neuromuscular and egocentric constraints on the stability of preferred bimanual coordination patterns. Human Movement Science, 2003, 22, 339-363.	1.4	88
53	Brainâ€behavior relationships in young traumatic brain injury patients: DTI metrics are highly correlated with postural control. Human Brain Mapping, 2010, 31, 992-1002.	3.6	87
54	Sex differences in human virtual water maze performance: Novel measures reveal the relative contribution of directional responding and spatial knowledge. Behavioural Brain Research, 2010, 208, 408-414.	2.2	85

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55	Is the human primary motor cortex activated by muscular or direction-dependent features of observed movements?. Cortex, 2009, 45, 1148-1155.	2.4	84
56	Brain connectivity and postural control in young traumatic brain injury patients: A diffusion MRI based network analysis. NeuroImage: Clinical, 2012, 1, 106-115.	2.7	84
57	Brain GABA Levels Are Associated with Inhibitory Control Deficits in Older Adults. Journal of Neuroscience, 2018, 38, 7844-7851.	3.6	82
58	Split-belt walking: adaptation differences between young and older adults. Journal of Neurophysiology, 2012, 108, 1149-1157.	1.8	81
59	Observing how others lift light or heavy objects: Which visual cues mediate the encoding of muscular force in the primary motor cortex?. Neuropsychologia, 2010, 48, 2082-2090.	1.6	78
60	Abnormalities and Cue Dependence of Rhythmical Upper-Limb Movements in Parkinson Patients With Freezing of Gait. Neurorehabilitation and Neural Repair, 2012, 26, 636-645.	2.9	78
61	Preferred and induced coordination modes during the acquisition of bimanual movements with a 2:1 frequency ratio.. Journal of Experimental Psychology: Human Perception and Performance, 1997, 23, 1087-1110.	0.9	77
62	Age-related differences in inhibitory processes during interlimb coordination. Brain Research, 2009, 1262, 38-47.	2.2	77
63	Reduced Basal Ganglia Function When Elderly Switch between Coordinated Movement Patterns. Cerebral Cortex, 2010, 20, 2368-2379.	2.9	77
64	Topological correlations of structural and functional networks in patients with traumatic brain injury. Frontiers in Human Neuroscience, 2013, 7, 726.	2.0	77
65	Behavioral and Neural Evidence of the Rewarding Value of Exercise Behaviors: A Systematic Review. Sports Medicine, 2018, 48, 1389-1404.	6.5	77
66	Homologous involvement of striatum and prefrontal cortex in rodent and human water maze learning. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3131-3136.	7.1	76
67	Big GABA II: Water-referenced edited MR spectroscopy at 25 research sites. NeuroImage, 2019, 191, 537-548.	4.2	76
68	Information processing in human parieto-frontal circuits during goal-directed bimanual movements. NeuroImage, 2006, 31, 264-278.	4.2	75
69	Age-Related Changes in Frontal Network Structural and Functional Connectivity in Relation to Bimanual Movement Control. Journal of Neuroscience, 2016, 36, 1808-1822.	3.6	75
70	Freezing in Parkinson's disease: A spatiotemporal motor disorder beyond gait. Movement Disorders, 2012, 27, 254-263.	3.9	74
71	Kinetic Attraction During Bimanual Coordination. Journal of Motor Behavior, 1990, 22, 451-473.	0.9	72
72	Brain-behavior relationships in young traumatic brain injury patients: Fractional anisotropy measures are highly correlated with dynamic visuomotor tracking performance. Neuropsychologia, 2010, 48, 1472-1482.	1.6	72

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73	Asymmetric interlimb interference during the performance of a dynamic bimanual task. Brain and Cognition, 1990, 14, 185-200.	1.8	71
74	Constraints during bimanual coordination: the role of direction in relation to amplitude and force requirements. Behavioural Brain Research, 2001, 123, 201-218.	2.2	70
75	Age-related changes in brain activation underlying single- and dual-task performance: Visuomanual drawing and mental arithmetic. Neuropsychologia, 2011, 49, 2400-2409.	1.6	69
76	Motor learning-induced changes in functional brain connectivity as revealed by means of graph-theoretical network analysis. NeuroImage, 2012, 61, 633-650.	4.2	65
77	Hand, foot and lip representations in primary sensorimotor cortex: a high-density electroencephalography study. Scientific Reports, 2019, 9, 19464.	3.3	65
78	Bimanual motor deficits in older adults predicted by diffusion tensor imaging metrics of corpus callosum subregions. Brain Structure and Function, 2015, 220, 273-290.	2.3	64
79	Increasing convergence between imagined and executed movement across development: evidence for the emergence of movement representations. Developmental Science, 2009, 12, 474-483.	2.4	63
80	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
81	White matter microstructural organization and gait stability in older adults. Frontiers in Aging Neuroscience, 2014, 6, 104.	3.4	62
82	GABA levels and measures of intracortical and interhemispheric excitability in healthy young and older adults: an MRS-TMS study. Neurobiology of Aging, 2018, 65, 168-177.	3.1	62
83	Motor learning and Parkinsonâ€™s disease: refinement of within-limb and between-limb coordination as a result of practice. Behavioural Brain Research, 2000, 111, 45-59.	2.2	60
84	Is interlimb coordination during walking preserved in children with cerebral palsy?. Research in Developmental Disabilities, 2012, 33, 1418-1428.	2.2	59
85	Proprioceptive control of multijoint movement: bimanual circle drawing. Experimental Brain Research, 1999, 127, 182-192.	1.5	58
86	High-frequency transcranial magnetic stimulation of the supplementary motor area reduces bimanual coupling during anti-phase but not in-phase movements. Experimental Brain Research, 2003, 151, 309-317.	1.5	58
87	Acquisition of a new bimanual coordination pattern modulates the cerebral activations elicited by an intrinsic pattern: An fMRI study. Cortex, 2008, 44, 482-493.	2.4	58
88	Bimanual Coordination and Corpus Callosum Microstructure in Young Adults with Traumatic Brain Injury: A Diffusion Tensor Imaging Study. Journal of Neurotrauma, 2011, 28, 897-913.	3.4	58
89	Dual-task interference during initial learning of a new motor task results from competition for the same brain areas. Neuropsychologia, 2010, 48, 2517-2527.	1.6	57
90	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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91	The effects of dual tasking on handwriting in patients with Parkinsonâ€™s disease. Neuroscience, 2014, 263, 193-202.	2.3	57
92	Effect of Aging on Motor Inhibition during Action Preparation under Sensory Conflict. Frontiers in Aging Neuroscience, 2016, 8, 322.	3.4	57
93	Active versus Passive Training of a Complex Bimanual Task: Is Prescriptive Proprioceptive Information Sufficient for Inducing Motor Learning?. PLoS ONE, 2012, 7, e37687.	2.5	56
94	Passive somatosensory discrimination tasks in healthy volunteers: Differential networks involved in familiar versus unfamiliar shape and length discrimination. NeuroImage, 2005, 26, 441-453.	4.2	55
95	Changes in corticomotor excitability following prolonged muscle tendon vibration. Behavioural Brain Research, 2008, 190, 41-49.	2.2	55
96	Correlations Between White Matter Integrity and Motor Function in Traumatic Brain Injury Patients. Neurorehabilitation and Neural Repair, 2011, 25, 492-502.	2.9	55
97	Effects of tendon vibration on the spatiotemporal characteristics of human locomotion. Experimental Brain Research, 2002, 143, 231-239.	1.5	54
98	Spatial interference during bimanual coordination: Differential brain networks associated with control of movement amplitude and direction. Human Brain Mapping, 2005, 26, 286-300.	3.6	54
99	Unimanual muscle activation increases interhemispheric inhibition from the active to the resting hemisphere. Neuroscience Letters, 2008, 445, 209-213.	2.1	54
100	Proprioceptive control of multijoint movement: unimanual circle drawing. Experimental Brain Research, 1999, 127, 171-181.	1.5	53
101	When visuo-motor incongruence aids motor performance: the effect of perceiving motion structures during transformed visual feedback on bimanual coordination. Behavioural Brain Research, 2003, 138, 45-57.	2.2	53
102	The effect of longâ€term TENS on persistent neuroplastic changes in the human cerebral cortex. Human Brain Mapping, 2011, 32, 872-882.	3.6	53
103	Aging effects on the resting state motor network and interlimb coordination. Human Brain Mapping, 2014, 35, 3945-3961.	3.6	53
104	Long-Term TENS Treatment Improves Tactile Sensitivity in MS Patients. Neurorehabilitation and Neural Repair, 2010, 24, 420-427.	2.9	52
105	White matter fractional anisotropy predicts balance performance in older adults. Neurobiology of Aging, 2012, 33, 1900-1912.	3.1	52
106	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
107	Individual differences in brainstem and basal ganglia structure predict postural control and balance loss in young and older adults. Neurobiology of Aging, 2017, 50, 47-59.	3.1	52
108	Load compensation during homologous and non-homologous coordination. Experimental Brain Research, 1998, 121, 223-229.	1.5	51

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109	Microstructural organization of corpus callosum projections to prefrontal cortex predicts bimanual motor learning. Learning and Memory, 2012, 19, 351-357.	1.3	51
110	Performing two different actions simultaneously: The critical role of interhemispheric interactions during the preparation of bimanual movement. Cortex, 2016, 77, 141-154.	2.4	51
111	The effect of movement speed on upper-limb coupling strength. Human Movement Science, 1992, 11, 615-636.	1.4	50
112	Training-induced improvements in postural control are accompanied by alterations in cerebellar white matter in brain injured patients. NeuroImage: Clinical, 2015, 7, 240-251.	2.7	50
113	Preconditioning tDCS facilitates subsequent tDCS effect on skill acquisition in older adults. Neurobiology of Aging, 2017, 51, 31-42.	3.1	50
114	Patterns of Bimanual Interference Reveal Movement Encoding within a Radial Egocentric Reference Frame. Journal of Cognitive Neuroscience, 2002, 14, 463-471.	2.3	49
115	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. Brain Connectivity, 2015, 5, 303-311.	1.7	49
116	The synchronization of human arm movements to external events. Neuroscience Letters, 2000, 290, 181-184.	2.1	48
117	Observing how others lift light or heavy objects: time-dependent encoding of grip force in the primary motor cortex. Psychological Research, 2012, 76, 503-513.	1.7	47
118	Ageâ€related differences in GABA levels are driven by bulk tissue changes. Human Brain Mapping, 2018, 39, 3652-3662.	3.6	47
119	Age-related reduction in the differential pathways involved in internal and external movement generation. Neurobiology of Aging, 2010, 31, 301-314.	3.1	46
120	Testing Multiple Coordination Constraints with a Novel Bimanual Visuomotor Task. PLoS ONE, 2011, 6, e23619.	2.5	46
121	Evaluation of a Modified High-Definition Electrode Montage for Transcranial Alternating Current Stimulation (tACS) of Pre-Central Areas. Brain Stimulation, 2016, 9, 700-704.	1.6	46
122	Vibration-Induced Changes in EMG During Human Locomotion. Journal of Neurophysiology, 2003, 89, 1299-1307.	1.8	45
123	Structureâ€"function multiâ€scale connectomics reveals a major role of the frontoâ€striatoâ€thalamic circuit in brain aging. Human Brain Mapping, 2018, 39, 4663-4677.	3.6	45
124	Directional tuning effects during cyclical two-joint arm movements in the horizontal plane. Experimental Brain Research, 2001, 141, 471-484.	1.5	44
125	Directional interference during bimanual coordination: is interlimb coupling mediated by afferent or efferent processes. Behavioural Brain Research, 2003, 139, 177-195.	2.2	44
126	Ipsilateral coordination at preferred rate: Effects of age, body side and task complexity. NeuroImage, 2009, 47, 1854-1862.	4.2	44

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127	Three-dimensional reaching tasks: Effect of reaching height and width on upper limb kinematics and muscle activity. Gait and Posture, 2010, 32, 500-507.	1.4	43
128	Involvement of the Primary Motor Cortex in Controlling Movements Executed with the Ipsilateral Hand Differs between Left- and Right-handers. Journal of Cognitive Neuroscience, 2011, 23, 3456-3469.	2.3	43
129	Specific cerebellar regions are related to force amplitude and rate of force development. NeuroImage, 2012, 59, 1647-1656.	4.2	43
130	Bimanual Motor Coordination in Older Adults Is Associated with Increased Functional Brain Connectivity â€“ A Graph-Theoretical Analysis. PLoS ONE, 2013, 8, e62133.	2.5	43
131	Virtual water maze learning in human increases functional connectivity between posterior hippocampus and dorsal caudate. Human Brain Mapping, 2015, 36, 1265-1277.	3.6	43
132	Frequencyâ€dependent functional connectivity in resting state networks. Human Brain Mapping, 2020, 41, 5187-5198.	3.6	43
133	Shared neural resources between left and right interlimb coordination skills: The neural substrate of abstract motor representations. NeuroImage, 2010, 49, 2570-2580.	4.2	42
134	Reduced Neural Differentiation Between Feedback Conditions After Bimanual Coordination Training with and without Augmented Visual Feedback. Cerebral Cortex, 2015, 25, 1958-1969.	2.9	42
135	Aging and brain plasticity. Aging, 2018, 10, 1789-1790.	3.1	42
136	Hemispheric Asymmetries of the Premotor Cortex are Task Specific as Revealed by Disruptive TMS During Bimanual Versus Unimanual Movements. Cerebral Cortex, 2010, 20, 2842-2851.	2.9	41
137	Principal component analysis of complex multijoint coordinative movements. Biological Cybernetics, 2005, 93, 63-78.	1.3	40
138	Understanding bimanual coordination across small time scales from an electrophysiological perspective. Neuroscience and Biobehavioral Reviews, 2014, 47, 614-635.	6.1	40
139	Bimanual coordination: constraints imposed by the relative timing of homologous muscle activation. Experimental Brain Research, 2004, 156, 27-38.	1.5	39
140	Disturbed corticoâ€subcortical interactions during motor task switching in traumatic brain injury. Human Brain Mapping, 2013, 34, 1254-1271.	3.6	39
141	Anodal tDCS increases corticospinal output and projection strength in multiple sclerosis. Neuroscience Letters, 2013, 554, 151-155.	2.1	39
142	Contextual Interference in Complex Bimanual Skill Learning Leads to Better Skill Persistence. PLoS ONE, 2014, 9, e100906.	2.5	39
143	Subcortical Volume Loss in the Thalamus, Putamen, and Pallidum, Induced by Traumatic Brain Injury, Is Associated With Motor Performance Deficits. Neurorehabilitation and Neural Repair, 2016, 30, 603-614.	2.9	39
144	Complexity of Central Processing in Simple and Choice Multilimb Reaction-Time Tasks. PLoS ONE, 2014, 9, e90457.	2.5	38

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145	A proactive task set influences how response inhibition is implemented in the basal ganglia. Human Brain Mapping, 2016, 37, 4706-4717.	3.6	37
146	Relative cortico-subcortical shift in brain activity but preserved training-induced neural modulation in older adults during bimanual motor learning. Neurobiology of Aging, 2017, 58, 54-67.	3.1	37
147	Interaction of sound and sight during action perception: Evidence for shared modality-dependent action representations. Neuropsychologia, 2009, 47, 2593-2599.	1.6	36
148	Excitability of the Motor Cortex Ipsilateral to the Moving Body Side Depends on Spatio-Temporal Task Complexity and Hemispheric Specialization. PLoS ONE, 2011, 6, e17742.	2.5	36
149	Relearning of Writing Skills in Parkinson's Disease After Intensive Amplitude Training. Movement Disorders, 2016, 31, 1209-1216.	3.9	36
150	Movement Observation Improves Early Consolidation of Motor Memory. Journal of Neuroscience, 2011, 31, 11515-11520.	3.6	35
151	Toward new sensitive measures to evaluate gait stability in focal cerebellar lesion patients. Gait and Posture, 2015, 41, 592-596.	1.4	35
152	The neurochemical basis of the contextual interference effect. Neurobiology of Aging, 2018, 66, 85-96.	3.1	35
153	Task-related measures of short-interval intracortical inhibition and GABA levels in healthy young and older adults: A multimodal TMS-MRS study. NeuroImage, 2020, 208, 116470.	4.2	35
154	Task switching in traumatic brain injury relates to corticoâ€subcortical integrity. Human Brain Mapping, 2014, 35, 2459-2469.	3.6	34
155	Limitations on Coupling of Bimanual Movements Caused by Arm Dominance: When the Muscle Homology Principle Fails. Journal of Neurophysiology, 2010, 103, 2027-2038.	1.8	33
156	Relearning of writing skills in Parkinson's disease: A literature review on influential factors and optimal strategies. Neuroscience and Biobehavioral Reviews, 2013, 37, 349-357.	6.1	33
157	Subcortical volumetric changes across the adult lifespan: Subregional thalamic atrophy accounts for age-related sensorimotor performance declines. Cortex, 2015, 65, 128-138.	2.4	33
158	tDCS over left M1 or DLPFC does not improve learning of a bimanual coordination task. Scientific Reports, 2016, 6, 35739.	3.3	33
159	Brain Structural and Functional Connectivity: A Review of Combined Works of Diffusion Magnetic Resonance Imaging and Electro-Encephalography. Frontiers in Human Neuroscience, 2021, 15, 721206.	2.0	33
160	Dissociating the Structural and Metrical Specifications of Bimanual Movement. Journal of Motor Behavior, 1991, 23, 263-279.	0.9	32
161	Toward a Movement Dynamics Perspective on Dual-Task Performance. Human Factors, 1991, 33, 367-387.	3.5	32
162	Bimanual coordination and limb-specific parameterization in patients with Parkinson's disease. Neuropsychologia, 2000, 38, 1714-1722.	1.6	32

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163	Bimanual Training Reduces Spatial Interference. Journal of Motor Behavior, 2003, 35, 296-308.	0.9	32
164	Exercise programs for older men: mode and intensity to induce the highest possible health-related benefits. Preventive Medicine, 2004, 39, 823-833.	3.4	32
165	Expert Performance on a Virtual Reality Simulation System. Journal of Dental Education, 2007, 71, 759-766.	1.2	32
166	Multisensory Integration in Dynamical Behaviors: Maximum Likelihood Estimation across Bimanual Skill Learning. Journal of Neuroscience, 2009, 29, 8419-8428.	3.6	32
167	Enhanced prefrontal functionalâ€“structural networks to support postural control deficits after traumatic brain injury in a pediatric population. Network Neuroscience, 2017, 1, 116-142.	2.6	32
168	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
169	Impaired Retention of Motor Learning of Writing Skills in Patients with Parkinsonâ€™s Disease with Freezing of Gait. PLoS ONE, 2016, 11, e0148933.	2.5	32
170	The advantage of cyclic over discrete movements remains evident following changes in load and amplitude. Neuroscience Letters, 2006, 396, 28-32.	2.1	31
171	Regional volumes in brain stem and cerebellum are associated with postural impairments in young brainâ€injured patients. Human Brain Mapping, 2015, 36, 4897-4909.	3.6	31
172	Age-Dependent Modulations of Resting State Connectivity Following Motor Practice. Frontiers in Aging Neuroscience, 2018, 10, 25.	3.4	31
173	Comparison of Multivendor Single-Voxel MR Spectroscopy Data Acquired in Healthy Brain at 26 Sites. Radiology, 2020, 295, 171-180.	7.3	31
174	Functional Organization of the Action Observation Network in Autism: A Graph Theory Approach. PLoS ONE, 2015, 10, e0137020.	2.5	31
175	Development of Feedforward Control in a Dynamic Manual Tracking Task. Child Development, 2008, 79, 852-865.	3.0	30
176	Hemispheric asymmetries of motor versus nonmotor processes during (visuo)motor control. Human Brain Mapping, 2011, 32, 1311-1329.	3.6	30
177	Bimanual Coordination. , 2015, , 475-482.		30
178	Distinct online and offline effects of alpha and beta transcranial alternating current stimulation (tACS) on continuous bimanual performance and task-set switching. Scientific Reports, 2019, 9, 3144.	3.3	30
179	The stability of penâ€“joint and interjoint coordination in loop writing. Acta Psychologica, 1998, 100, 55-70.	1.5	29
180	Directional invariance during loading-related modulations of muscle activity: evidence for motor equivalence. Experimental Brain Research, 2003, 148, 62-76.	1.5	29

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