Stephan Riek

List of Publications by Year
in descending order

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97	4,257	117625	118850
papers	citations	34 h-index	62 g-index

104	104	104	4084
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Proprioceptive Neuromuscular Facilitation Stretching. Sports Medicine, 2006, 36, 929-939.	6.5	233
2	Reliability of the inputâ€“output properties of the cortico-spinal pathway obtained from transcranial magnetic and electrical stimulation. Journal of Neuroscience Methods, 2001, 112, 193-202.	2.5	200
3	Strength Versus Muscle Power-Specific Resistance Training in Community-Dwelling Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2008, 63, 83-91.	3.6	194
4	The sites of neural adaptation induced by resistance training in humans. Journal of Physiology, 2002, 544, 641-652.	2.9	185
5	Neural Adaptations to Resistance Training. Sports Medicine, 2001, 31, 829-840.	6.5	174
6	Neural Influences on Sprint Running. Sports Medicine, 2001, 31, 409-425.	6.5	174
7	Central and peripheral mediation of human force sensation following eccentric or concentric contractions. Journal of Physiology, 2002, 539, 913-925.	2.9	156
8	Improved language performance subsequent to low-frequency rTMS in patients with chronic non-fluent aphasia post-stroke. European Journal of Neurology, 2011, 18, 935-943.	3.3	144
9	Excitability changes in human forearm corticospinal projections and spinal reflex pathways during rhythmic voluntary movement of the opposite limb. Journal of Physiology, 2004, 560, 929-940.	2.9	130
10	Neural adaptations to strength training: Moving beyond transcranial magnetic stimulation and reflex studies. Acta Physiologica, 2011, 202, 119-140.	3.8	128
11	Motor Unit Recruitment Strategies Are Altered during Deep-Tissue Pain. Journal of Neuroscience, 2009, 29, 10820-10826.	3.6	119
12	Interhemispheric switching mediates perceptual rivalry. Current Biology, 2000, 10, 383-392.	3.9	108
13	Recruitment and rate coding organisation for soleus motor units across entire range of voluntary isometric plantar flexions. Journal of Physiology, 2009, 587, 4737-4748.	2.9	105
14	Neuromuscular-skeletal constraints upon the dynamics of unimanual and bimanual coordination. Experimental Brain Research, 2000, 131, 196-214.	1.5	93
15	Recruitment of motor units in human forearm extensors. Journal of Neurophysiology, 1992, 68, 100-108.	1.8	91
16	The effects of low frequency Repetitive Transcranial Magnetic Stimulation (rTMS) and sham condition rTMS on behavioural language in chronic non-fluent aphasia: Short term outcomes. NeuroRehabilitation, 2011, 28, 113-128.	1.3	81
17	The contribution of visual feedback to visuomotor adaptation: How much and when?. Brain Research, 2008, 1197, 123-134.	2.2	80
18	Early neural responses to strength training. Journal of Applied Physiology, 2011, 111, 367-375.	2.5	72

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19	A simulation of muscle force and internal kinematics of extensor carpi radialis brevis during backhand tennis stroke: implications for injury. Clinical Biomechanics, 1999, 14, 477-483.	1.2	71
20	Increased corticospinal excitability induced by unpleasant visual stimuli. Neuroscience Letters, 2010, 481, 135-138.	2.1	69
21	Resistance training enhances the stability of sensorimotor coordination. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 221-227.	2.6	65
22	Bimanual aiming and overt attention: one law for two hands. Experimental Brain Research, 2003, 153, 59-75.	1.5	65
23	Visual Attentional Load Influences Plasticity in the Human Motor Cortex. Journal of Neuroscience, 2012, 32, 7001-7008.	3.6	60
24	Long term language recovery subsequent to low frequency rTMS in chronic non-fluent aphasia. NeuroRehabilitation, 2013, 32, 915-928.	1.3	60
25	Real-time error detection but not error correction drives automatic visuomotor adaptation. Experimental Brain Research, 2010, 201, 191-207.	1.5	59
26	Dual adaptation to two opposing visuomotor rotations when each is associated with different regions of workspace. Experimental Brain Research, 2007, 179, 155-165.	1.5	57
27	Corticospinal modulation induced by sounds depends on action preparedness. Journal of Physiology, 2014, 592, 153-169.	2.9	55
28	The influence of joint position on the dynamics of perception-action coupling. Experimental Brain Research, 1998, 121, 103-114.	1.5	53
29	A new technique for the selective recording of extensor carpi radialis longus and brevis EMG. Journal of Electromyography and Kinesiology, 2000, 10, 249-253.	1.7	51
30	Electromyographic activity, H-reflex modulation and corticospinal input to forearm motoneurones during active and passive rhythmic movements. Human Movement Science, 1999, 18, 307-343.	1.4	50
31	Improved receptive and expressive language abilities in nonfluent aphasic stroke patients after application of rTMS: An open protocol case series. Brain Stimulation, 2012, 5, 274-286.	1.6	50
32	Savings for visuomotor adaptation require prior history of error, not prior repetition of successful actions. Journal of Neurophysiology, 2016, 116, 1603-1614.	1.8	48
33	Changes in muscle recruitment patterns during skill acquisition. Experimental Brain Research, 2001, 138, 71-87.	1.5	46
34	Construct validation of a physical model colonoscopy simulator. Gastrointestinal Endoscopy, 2012, 76, 144-150.	1.0	44
35	Assessing the realism of colonoscopy simulation: the development of an instrument and systematic comparison of 4 simulators. Gastrointestinal Endoscopy, 2012, 75, 631-640.e3.	1.0	35
36	A systematic method to quantify the presence of cross-talk in stimulus-evoked EMG responses: Implications for TMS studies. Journal of Applied Physiology, 2012, 112, 259-265.	2.5	34

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37	Modulation of N400 in chronic non-fluent aphasia using low frequency Repetitive Transcranial Magnetic Stimulation (rTMS). Brain and Language, 2011, 116, 125-135.	1.6	33
38	Muscle Coordination During Rapid Force Production by Young and Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2005, 60, 232-240.	3.6	32
39	Neuromuscular Adaptation During Skill Acquisition on a Two Degree-of-Freedom Target-Acquisition Task: Isometric Torque Production. Journal of Neurophysiology, 2005, 94, 3046-3057.	1.8	31
40	Corticospinal Responses to Motor Training Revealed by Transcranial Magnetic Stimulation. Exercise and Sport Sciences Reviews, 2001, 29, 54-59.	3.0	29
41	The interference effects of non-rotated versus counter-rotated trials in visuomotor adaptation. Experimental Brain Research, 2007, 180, 629-640.	1.5	29
42	Neuromuscular Adaptation During Skill Acquisition on a Two Degree-of-Freedom Target-Acquisition Task: Dynamic Movement. Journal of Neurophysiology, 2005, 94, 3058-3068.	1.8	26
43	Visual Spatial Attention Has Opposite Effects on Bidirectional Plasticity in the Human Motor Cortex. Journal of Neuroscience, 2014, 34, 1475-1480.	3.6	26
44	Corticospinal excitability during imagined and observed dynamic force production tasks: Effortfulness matters. Neuroscience, 2015, 290, 398-405.	2.3	26
45	Electric and acoustic stimulation during movement preparation can facilitate movement execution in healthy participants and stroke survivors. Neuroscience Letters, 2016, 618, 134-138.	2.1	26
46	Triggering Mechanisms for Motor Actions: The Effects of Expectation on Reaction Times to Intense Acoustic Stimuli. Neuroscience, 2018, 393, 226-235.	2.3	26
47	The efficacy of colour cues in facilitating adaptation to opposing visuomotor rotations. Experimental Brain Research, 2008, 191, 143-155.	1.5	23
48	The early release of actions by loud sounds in muscles with distinct connectivity. Experimental Brain Research, 2014, 232, 3797-3802.	1.5	22
49	Musculo-skeletal constraints on corticospinal input to upper limb motoneurones during coordinated movements. Human Movement Science, 2000, 19, 451-474.	1.4	21
50	Corticospinal excitability during preparation for an anticipatory action is modulated by the availability of visual information. Journal of Neurophysiology, 2011, 105, 1122-1129.	1.8	21
51	Startle evoked movement is delayed in older adults: implications for brainstem processing in the elderly. Physiological Reports, 2014, 2, e12025.	1.7	21
52	Cerebellar anodal tDCS increases implicit learning when strategic re-aiming is suppressed in sensorimotor adaptation. PLoS ONE, 2017, 12, e0179977.	2.5	21
53	Visual target separation determines the extent of generalisation between opposing visuomotor rotations. Experimental Brain Research, 2011, 212, 213-224.	1.5	20
54	Unexpected acoustic stimulation during action preparation reveals gradual re-specification of movement direction. Neuroscience, 2017, 348, 23-32.	2.3	20

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55	Hierarchical organisation of neuro-anatomical constraints in interlimb coordination. Human Movement Science, 2005, 24, 798-814.	1.4	19
56	Physiological measurement of anxiety to evaluate performance in simulation training. Cognition, Technology and Work, 2014, 16, 203-210.	3.0	18
57	The facilitation of motor actions by acoustic and electric stimulation. Psychophysiology, 2015, 52, 1698-1710.	2.4	18
58	Using Pupillometry and Electromyography to Track Positive and Negative Affect During Flight Simulation. Aviation Psychology and Applied Human Factors, 2014, 4, 23-32.	0.4	18
59	Artificial Gravity Reveals that Economy of Action Determines the Stability of Sensorimotor Coordination. PLoS ONE, 2009, 4, e5248.	2.5	17
60	A competency framework for colonoscopy training derived from cognitive task analysis techniques and expert review. BMC Medical Education, 2015, 15, 216.	2.4	17
61	Longitudinal modulation of N400 in chronic non-fluent aphasia using low-frequency rTMS: A randomised placebo controlled trial. Aphasiology, 2012, 26, 103-124.	2.2	15
62	Ipsilateral corticospinal responses to ballistic training are similar for various intensities and timings of <scp>TMS</scp>. Acta Physiologica, 2013, 207, 385-396.	3.8	14
63	The effect of attention on the release of anticipatory timing actions.. Behavioral Neuroscience, 2014, 128, 548-555.	1.2	14
64	Feedforward compensation for novel dynamics depends on force field orientation but is similar for the left and right arms. Journal of Neurophysiology, 2016, 116, 2260-2271.	1.8	14
65	Strength Training Biases Goal-Directed Aiming. Medicine and Science in Sports and Exercise, 2016, 48, 1835-1846.	0.4	14
66	Neural compensation for compliant loads during rhythmic movement. Experimental Brain Research, 2002, 142, 409-417.	1.5	13
67	Superimposed vibration confers no additional benefit compared with resistance training alone. Scandinavian Journal of Medicine and Science in Sports, 2010, 20, 827-833.	2.9	13
68	Primary motor cortex involvement in initial learning during visuomotor adaptation. Neuropsychologia, 2012, 50, 2515-2523.	1.6	13
69	Unilateral movement preparation causes taskâ€specific modulation of TMS responses in the passive, opposite limb. Journal of Physiology, 2018, 596, 3725-3738.	2.9	12
70	The Timing of Intralimb Coordination. Journal of Motor Behavior, 1999, 31, 113-118.	0.9	11
71	The effects of preparation and acoustic stimulation on contralateral and ipsilateral corticospinal excitability. Human Movement Science, 2015, 42, 81-88.	1.4	11
72	Abdominal Palpation Haptic Device for Colonoscopy Simulation Using Pneumatic Control. IEEE Transactions on Haptics, 2012, 5, 97-108.	2.7	10

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73	Neuromuscular and biomechanical factors codetermine the solution to motor redundancy in rhythmic multijoint arm movement. Experimental Brain Research, 2008, 189, 421-434.	1.5	9
74	Common input to different regions of biceps brachii long head. Experimental Brain Research, 2009, 193, 351-359.	1.5	8
75	Cumulative distribution functions: An alternative approach to examine the triggering of prepared motor actions in the StartReact effect. European Journal of Neuroscience, 2021, 53, 1545-1568.	2.6	8
76	Let your feet do the walking: constraints on the stability of bipedal coordination. Experimental Brain Research, 2001, 136, 407-412.	1.5	7
77	The Role of the Primary Motor Cortex During Skill Acquisition on a Two-Degrees-of-Freedom Movement Task. Journal of Motor Behavior, 2007, 39, 29-39.	0.9	7
78	Assessment of colorectal polyp recognition skill: development and validation of an objective test. Surgical Endoscopy and Other Interventional Techniques, 2017, 31, 2426-2436.	2.4	6
79	Assessing colonoscopic inspection skill using a virtual withdrawal simulation: a preliminary validation of performance metrics. BMC Medical Education, 2017, 17, 118.	2.4	6
80	The efficacy of training insertion skill on a physical model colonoscopy simulator. Endoscopy International Open, 2016, 04, E1252-E1260.	1.8	5
81	A novel training device for tip control in colonoscopy: preliminary validation and efficacy as a training tool. Surgical Endoscopy and Other Interventional Techniques, 2017, 31, 5364-5371.	2.4	5
82	Neuromuscular-Skeletal Origins of Predominant Patterns of Coordination in a Rhythmic Two-Joint Arm Movement. Journal of Motor Behavior, 2006, 38, 7-14.	0.9	4
83	Neuromuscular-skeletal constraints on the acquisition of skill in a discrete torque production task. Experimental Brain Research, 2006, 175, 400-410.	1.5	4
84	Influence of predominant patterns of coordination on the exploitation of interaction torques in a two-joint rhythmic arm movement. Experimental Brain Research, 2006, 175, 439-452.	1.5	4
85	Pneumatic haptic interface fuzzy controller for simulation of abdominal palpations during colonoscopy. , 2009, , .		4
86	Acoustic stimulation increases implicit adaptation in sensorimotor adaptation. European Journal of Neuroscience, 2021, 54, 5047-5062.	2.6	4
87	Delayed inhibition of an anticipatory action during motion extrapolation. Behavioral and Brain Functions, 2010, 6, 22.	3.3	3
88	Investigating the neural basis of stuttering using transcranial magnetic stimulation: Preliminary case discussions. Speech, Language and Hearing, 2013, 16, 18-27.	1.0	3
89	Concurrent 3-D Sonifications Enable the Head-Up Monitoring of Two Interrelated Aircraft Navigation Instruments. Human Factors, 2014, 56, 1414-1427.	3.5	3
90	Pushing attention to one side: Force field adaptation alters neural correlates of orienting and disengagement of spatial attention. European Journal of Neuroscience, 2019, 49, 120-136.	2.6	3

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91	Do we know what we need? Preference for feedback about accurate performances does not benefit sensorimotor learning.. Journal of Experimental Psychology: Human Perception and Performance, 2018, 44, 1294-1302.	0.9	3
92	The effects of viscous loading of the human forearm flexors on the stability of coordination. Human Movement Science, 2004, 23, 431-445.	1.4	2
93	M1428: A Colonoscopy Competency Framework Derived From Task Analysis. Gastrointestinal Endoscopy, 2010, 71, AB218.	1.0	2
94	Generalisation between opposing visuomotor rotations when each is associated with visual targets and movements of different amplitude. Brain Research, 2008, 1219, 46-58.	2.2	1
95	Repetitive Transcranial Magnetic Stimulation (rTMS) and Sham Modulation of Language Function in Non-fluent Aphasia 2 Months Post Stimulation. Procedia, Social and Behavioral Sciences, 2010, 6, 233-234.	0.5	0
96	T1425: A Systematic Comparison of the Realism of Four Colonoscopy Simulators. Gastrointestinal Endoscopy, 2010, 71, AB274.	1.0	0
97	Interaction of hand orientations during familiarization of a goal-directed aiming task. Human Movement Science, 2022, 83, 102955.	1.4	0