

Stephan Riek

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

4,257
citations

117625

34
h-index

118850

62
g-index

104
all docs

104
docs citations

104
times ranked

4084
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of hand orientations during familiarization of a goal-directed aiming task. <i>Human Movement Science</i> , 2022, 83, 102955.	1.4	0
2	Cumulative distribution functions: An alternative approach to examine the triggering of prepared motor actions in the StartReact effect. <i>European Journal of Neuroscience</i> , 2021, 53, 1545-1568.	2.6	8
3	Acoustic stimulation increases implicit adaptation in sensorimotor adaptation. <i>European Journal of Neuroscience</i> , 2021, 54, 5047-5062.	2.6	4
4	Pushing attention to one side: Force field adaptation alters neural correlates of orienting and disengagement of spatial attention. <i>European Journal of Neuroscience</i> , 2019, 49, 120-136.	2.6	3
5	Triggering Mechanisms for Motor Actions: The Effects of Expectation on Reaction Times to Intense Acoustic Stimuli. <i>Neuroscience</i> , 2018, 393, 226-235.	2.3	26
6	Unilateral movement preparation causes task-specific modulation of TMS responses in the passive, opposite limb. <i>Journal of Physiology</i> , 2018, 596, 3725-3738.	2.9	12
7	Do we know what we need? Preference for feedback about accurate performances does not benefit sensorimotor learning.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2018, 44, 1294-1302.	0.9	3
8	Unexpected acoustic stimulation during action preparation reveals gradual re-specification of movement direction. <i>Neuroscience</i> , 2017, 348, 23-32.	2.3	20
9	A novel training device for tip control in colonoscopy: preliminary validation and efficacy as a training tool. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2017, 31, 5364-5371.	2.4	5
10	Assessment of colorectal polyp recognition skill: development and validation of an objective test. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2017, 31, 2426-2436.	2.4	6
11	Assessing colonoscopic inspection skill using a virtual withdrawal simulation: a preliminary validation of performance metrics. <i>BMC Medical Education</i> , 2017, 17, 118.	2.4	6
12	Cerebellar anodal tDCS increases implicit learning when strategic re-aiming is suppressed in sensorimotor adaptation. <i>PLoS ONE</i> , 2017, 12, e0179977.	2.5	21
13	The efficacy of training insertion skill on a physical model colonoscopy simulator. <i>Endoscopy International Open</i> , 2016, 04, E1252-E1260.	1.8	5
14	Savings for visuomotor adaptation require prior history of error, not prior repetition of successful actions. <i>Journal of Neurophysiology</i> , 2016, 116, 1603-1614.	1.8	48
15	Feedforward compensation for novel dynamics depends on force field orientation but is similar for the left and right arms. <i>Journal of Neurophysiology</i> , 2016, 116, 2260-2271.	1.8	14
16	Strength Training Biases Goal-Directed Aiming. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1835-1846.	0.4	14
17	Electric and acoustic stimulation during movement preparation can facilitate movement execution in healthy participants and stroke survivors. <i>Neuroscience Letters</i> , 2016, 618, 134-138.	2.1	26
18	A competency framework for colonoscopy training derived from cognitive task analysis techniques and expert review. <i>BMC Medical Education</i> , 2015, 15, 216.	2.4	17

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19	The facilitation of motor actions by acoustic and electric stimulation. <i>Psychophysiology</i> , 2015, 52, 1698-1710.	2.4	18
20	The effects of preparation and acoustic stimulation on contralateral and ipsilateral corticospinal excitability. <i>Human Movement Science</i> , 2015, 42, 81-88.	1.4	11
21	Corticospinal excitability during imagined and observed dynamic force production tasks: Effortfulness matters. <i>Neuroscience</i> , 2015, 290, 398-405.	2.3	26
22	The effect of attention on the release of anticipatory timing actions.. <i>Behavioral Neuroscience</i> , 2014, 128, 548-555.	1.2	14
23	Startle evoked movement is delayed in older adults: implications for brainstem processing in the elderly. <i>Physiological Reports</i> , 2014, 2, e12025.	1.7	21
24	Concurrent 3-D Sonifications Enable the Head-Up Monitoring of Two Interrelated Aircraft Navigation Instruments. <i>Human Factors</i> , 2014, 56, 1414-1427.	3.5	3
25	Corticospinal modulation induced by sounds depends on action preparedness. <i>Journal of Physiology</i> , 2014, 592, 153-169.	2.9	55
26	Visual Spatial Attention Has Opposite Effects on Bidirectional Plasticity in the Human Motor Cortex. <i>Journal of Neuroscience</i> , 2014, 34, 1475-1480.	3.6	26
27	The early release of actions by loud sounds in muscles with distinct connectivity. <i>Experimental Brain Research</i> , 2014, 232, 3797-3802.	1.5	22
28	Physiological measurement of anxiety to evaluate performance in simulation training. <i>Cognition, Technology and Work</i> , 2014, 16, 203-210.	3.0	18
29	Using Pupillometry and Electromyography to Track Positive and Negative Affect During Flight Simulation. <i>Aviation Psychology and Applied Human Factors</i> , 2014, 4, 23-32.	0.4	18
30	Ipsilateral corticospinal responses to ballistic training are similar for various intensities and timings of <sc>TMS</sc>. <i>Acta Physiologica</i> , 2013, 207, 385-396.	3.8	14
31	Long term language recovery subsequent to low frequency rTMS in chronic non-fluent aphasia. <i>NeuroRehabilitation</i> , 2013, 32, 915-928.	1.3	60
32	Investigating the neural basis of stuttering using transcranial magnetic stimulation: Preliminary case discussions. <i>Speech, Language and Hearing</i> , 2013, 16, 18-27.	1.0	3
33	Longitudinal modulation of N400 in chronic non-fluent aphasia using low-frequency rTMS: A randomised placebo controlled trial. <i>Aphasiology</i> , 2012, 26, 103-124.	2.2	15
34	Visual Attentional Load Influences Plasticity in the Human Motor Cortex. <i>Journal of Neuroscience</i> , 2012, 32, 7001-7008.	3.6	60
35	A systematic method to quantify the presence of cross-talk in stimulus-evoked EMG responses: Implications for TMS studies. <i>Journal of Applied Physiology</i> , 2012, 112, 259-265.	2.5	34
36	Abdominal Palpation Haptic Device for Colonoscopy Simulation Using Pneumatic Control. <i>IEEE Transactions on Haptics</i> , 2012, 5, 97-108.	2.7	10

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37	Improved receptive and expressive language abilities in nonfluent aphasic stroke patients after application of rTMS: An open protocol case series. <i>Brain Stimulation</i> , 2012, 5, 274-286.	1.6	50
38	Assessing the realism of colonoscopy simulation: the development of an instrument and systematic comparison of 4 simulators. <i>Gastrointestinal Endoscopy</i> , 2012, 75, 631-640.e3.	1.0	35
39	Construct validation of a physical model colonoscopy simulator. <i>Gastrointestinal Endoscopy</i> , 2012, 76, 144-150.	1.0	44
40	Primary motor cortex involvement in initial learning during visuomotor adaptation. <i>Neuropsychologia</i> , 2012, 50, 2515-2523.	1.6	13
41	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. <i>NeuroRehabilitation</i> , 2011, 28, 113-128.	1.3	81
42	Early neural responses to strength training. <i>Journal of Applied Physiology</i> , 2011, 111, 367-375.	2.5	72
43	Improved language performance subsequent to low-frequency rTMS in patients with chronic non-fluent aphasia post-stroke. <i>European Journal of Neurology</i> , 2011, 18, 935-943.	3.3	144
44	Neural adaptations to strength training: Moving beyond transcranial magnetic stimulation and reflex studies. <i>Acta Physiologica</i> , 2011, 202, 119-140.	3.8	128
45	Modulation of N400 in chronic non-fluent aphasia using low frequency Repetitive Transcranial Magnetic Stimulation (rTMS). <i>Brain and Language</i> , 2011, 116, 125-135.	1.6	33
46	Visual target separation determines the extent of generalisation between opposing visuomotor rotations. <i>Experimental Brain Research</i> , 2011, 212, 213-224.	1.5	20
47	Corticospinal excitability during preparation for an anticipatory action is modulated by the availability of visual information. <i>Journal of Neurophysiology</i> , 2011, 105, 1122-1129.	1.8	21
48	Real-time error detection but not error correction drives automatic visuomotor adaptation. <i>Experimental Brain Research</i> , 2010, 201, 191-207.	1.5	59
49	Repetitive Transcranial Magnetic Stimulation (rTMS) and Sham Modulation of Language Function in Non-fluent Aphasia 2 Months Post Stimulation. <i>Procedia, Social and Behavioral Sciences</i> , 2010, 6, 233-234.	0.5	0
50	Delayed inhibition of an anticipatory action during motion extrapolation. <i>Behavioral and Brain Functions</i> , 2010, 6, 22.	3.3	3
51	Superimposed vibration confers no additional benefit compared with resistance training alone. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2010, 20, 827-833.	2.9	13
52	M1428: A Colonoscopy Competency Framework Derived From Task Analysis. <i>Gastrointestinal Endoscopy</i> , 2010, 71, AB218.	1.0	2
53	T1425: A Systematic Comparison of the Realism of Four Colonoscopy Simulators. <i>Gastrointestinal Endoscopy</i> , 2010, 71, AB274.	1.0	0
54	Increased corticospinal excitability induced by unpleasant visual stimuli. <i>Neuroscience Letters</i> , 2010, 481, 135-138.	2.1	69

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55	Artificial Gravity Reveals that Economy of Action Determines the Stability of Sensorimotor Coordination. PLoS ONE, 2009, 4, e5248.	2.5	17
56	Motor Unit Recruitment Strategies Are Altered during Deep-Tissue Pain. Journal of Neuroscience, 2009, 29, 10820-10826.	3.6	119
57	Common input to different regions of biceps brachii long head. Experimental Brain Research, 2009, 193, 351-359.	1.5	8
58	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
59	Pneumatic haptic interface fuzzy controller for simulation of abdominal palpations during colonoscopy. , 2009, , .		4
60	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
61	The efficacy of colour cues in facilitating adaptation to opposing visuomotor rotations. Experimental Brain Research, 2008, 191, 143-155.	1.5	23
62	The contribution of visual feedback to visuomotor adaptation: How much and when?. Brain Research, 2008, 1197, 123-134.	2.2	80
63	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
64	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
65	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
66	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
67	The interference effects of non-rotated versus counter-rotated trials in visuomotor adaptation. Experimental Brain Research, 2007, 180, 629-640.	1.5	29
68	Proprioceptive Neuromuscular Facilitation Stretching. Sports Medicine, 2006, 36, 929-939.	6.5	233
69	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
70	Neuromuscular-skeletal constraints on the acquisition of skill in a discrete torque production task. Experimental Brain Research, 2006, 175, 400-410.	1.5	4
71	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
72	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

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73	Neuromuscular Adaptation During Skill Acquisition on a Two Degree-of-Freedom Target-Acquisition Task: Isometric Torque Production. <i>Journal of Neurophysiology</i> , 2005, 94, 3046-3057.	1.8	31
74	Hierarchical organisation of neuro-anatomical constraints in interlimb coordination. <i>Human Movement Science</i> , 2005, 24, 798-814.	1.4	19
75	Muscle Coordination During Rapid Force Production by Young and Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2005, 60, 232-240.	3.6	32
76	Excitability changes in human forearm corticospinal projections and spinal reflex pathways during rhythmic voluntary movement of the opposite limb. <i>Journal of Physiology</i> , 2004, 560, 929-940.	2.9	130
77	The effects of viscous loading of the human forearm flexors on the stability of coordination. <i>Human Movement Science</i> , 2004, 23, 431-445.	1.4	2
78	Bimanual aiming and overt attention: one law for two hands. <i>Experimental Brain Research</i> , 2003, 153, 59-75.	1.5	65
79	Central and peripheral mediation of human force sensation following eccentric or concentric contractions. <i>Journal of Physiology</i> , 2002, 539, 913-925.	2.9	156
80	Neural compensation for compliant loads during rhythmic movement. <i>Experimental Brain Research</i> , 2002, 142, 409-417.	1.5	13
81	The sites of neural adaptation induced by resistance training in humans. <i>Journal of Physiology</i> , 2002, 544, 641-652.	2.9	185
82	Neural Adaptations to Resistance Training. <i>Sports Medicine</i> , 2001, 31, 829-840.	6.5	174
83	Neural Influences on Sprint Running. <i>Sports Medicine</i> , 2001, 31, 409-425.	6.5	174
84	Corticospinal Responses to Motor Training Revealed by Transcranial Magnetic Stimulation. <i>Exercise and Sport Sciences Reviews</i> , 2001, 29, 54-59.	3.0	29
85	Let your feet do the walking: constraints on the stability of bipedal coordination. <i>Experimental Brain Research</i> , 2001, 136, 407-412.	1.5	7
86	Changes in muscle recruitment patterns during skill acquisition. <i>Experimental Brain Research</i> , 2001, 138, 71-87.	1.5	46
87	Reliability of the input-output properties of the cortico-spinal pathway obtained from transcranial magnetic and electrical stimulation. <i>Journal of Neuroscience Methods</i> , 2001, 112, 193-202.	2.5	200
88	Resistance training enhances the stability of sensorimotor coordination. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 221-227.	2.6	65
89	Interhemispheric switching mediates perceptual rivalry. <i>Current Biology</i> , 2000, 10, 383-392.	3.9	108
90	Musculo-skeletal constraints on corticospinal input to upper limb motoneurons during coordinated movements. <i>Human Movement Science</i> , 2000, 19, 451-474.	1.4	21

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91	Neuromuscular-skeletal constraints upon the dynamics of unimanual and bimanual coordination. <i>Experimental Brain Research</i> , 2000, 131, 196-214.	1.5	93
92	A new technique for the selective recording of extensor carpi radialis longus and brevis EMG. <i>Journal of Electromyography and Kinesiology</i> , 2000, 10, 249-253.	1.7	51
93	The Timing of Intralimb Coordination. <i>Journal of Motor Behavior</i> , 1999, 31, 113-118.	0.9	11
94	Electromyographic activity, H-reflex modulation and corticospinal input to forearm motoneurons during active and passive rhythmic movements. <i>Human Movement Science</i> , 1999, 18, 307-343.	1.4	50
95	A simulation of muscle force and internal kinematics of extensor carpi radialis brevis during backhand tennis stroke: implications for injury. <i>Clinical Biomechanics</i> , 1999, 14, 477-483.	1.2	71
96	The influence of joint position on the dynamics of perception-action coupling. <i>Experimental Brain Research</i> , 1998, 121, 103-114.	1.5	53
97	Recruitment of motor units in human forearm extensors. <i>Journal of Neurophysiology</i> , 1992, 68, 100-108.	1.8	91