Luc P J Selen

List of Publications by Year
in descending order

41 papers	3,822 citations	567281 15 h-index	414414 32 g-index
46 all docs	46 docs citations	46 times ranked	4194 citing authors

#	Article	IF	Citations
1	Noise in the nervous system. Nature Reviews Neuroscience, 2008, 9, 292-303.	10.2	2,230
2	Trunk muscle activation in low-back pain patients, an analysis of the literature. Journal of Electromyography and Kinesiology, 2003, 13, 333-351.	1.7	511
3	Deliberation in the Motor System: Reflex Gains Track Evolving Evidence Leading to a Decision. Journal of Neuroscience, 2012, 32, 2276-2286.	3.6	182
4	Multisensory Processing in Spatial Orientation: An Inverse Probabilistic Approach. Journal of Neuroscience, 2011, 31, 5365-5377.	3.6	127
5	Impedance Control Reduces Instability That Arises from Motor Noise. Journal of Neuroscience, 2009, 29, 12606-12616.	3.6	123
6	Can co-activation reduce kinematic variability? A simulation study. Biological Cybernetics, 2005, 93, 373-381.	1.3	89
7	Impedance is modulated to meet accuracy demands during goal-directed arm movements. Experimental Brain Research, 2006, 172, 129-138.	1.5	81
8	Impedance Modulation and Feedback Corrections in Tracking Targets of Variable Size and Frequency. Journal of Neurophysiology, 2006, 96, 2750-2759.	1.8	55
9	Fatigue-induced changes of impedance and performance in target tracking. Experimental Brain Research, 2007, 181, 99-108.	1.5	53
10	Dissociating vestibular and somatosensory contributions to spatial orientation. Journal of Neurophysiology, 2016, 116, 30-40.	1.8	40
11	A Bayesian Account of Visualâ€“Vestibular Interactions in the Rod-and-Frame Task. ENeuro, 2016, 3, ENEURO.0093-16.2016.	1.9	36
12	Age-related reweighting of visual and vestibular cues for vertical perception. Journal of Neurophysiology, 2019, 121, 1279-1288.	1.8	34
13	Psychophysical Evaluation of Sensory Reweighting in Bilateral Vestibulopathy. Frontiers in Neurology, 2018, 9, 377.	2.4	28
14	Task-dependent vestibular feedback responses in reaching. Journal of Neurophysiology, 2017, 118, 84-92.	1.8	27
15	Reliability-Based Weighting of Visual and Vestibular Cues in Displacement Estimation. PLoS ONE, 2015, 10, e0145015.	2.5	26
16	Vestibular benefits to task savings in motor adaptation. Journal of Neurophysiology, 2013, 110, 1269-1277.	1.8	23
17	Decisions in motion: passive body acceleration modulates hand choice. Journal of Neurophysiology, 2017, 117, 2250-2261.	1.8	19
18	Corticospinal correlates of fast and slow adaptive processes in motor learning. Journal of Neurophysiology, 2018, 120, 2011-2019.	1.8	17

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19	Bayesian quantification of sensory reweighting in a familial bilateral vestibular disorder (DFNA9). Journal of Neurophysiology, 2018, 119, 1209-1221.	1.8	16
20	Sensory substitution in bilateral vestibular a-reflexic patients. Physiological Reports, 2015, 3, e12385.	1.7	15
21	Visual stability across combined eye and body motion. Journal of Vision, 2012, 12, 8-8.	0.3	13
22	Saccadic updating of object orientation for grasping movements. Vision Research, 2011, 51, 898-907.	1.4	11
23	Reference frames in the decisions of hand choice. Journal of Neurophysiology, 2018, 119, 1809-1817.	1.8	11
24	Selection and control of limb posture for stability. , 2013, 2013, 5626-9.		9
25	Taskâ€dependent responses to muscle vibration during reaching. European Journal of Neuroscience, 2019, 49, 1477-1490.	2.6	8
26	Eye Movements in Darkness Modulate Self-Motion Perception. ENeuro, 2017, 4, ENEURO.0211-16.2016.	1.9	8
27	Recipient Design in Communicative Pointing. Cognitive Science, 2019, 43, e12733.	1.7	7
28	Transformation of vestibular signals for the decisions of hand choice during whole body motion. Journal of Neurophysiology, 2019, 121, 2392-2400.	1.8	7
29	Single versus dual-rate learning when exposed to Coriolis forces during reaching movements. PLoS ONE, 2020, 15, e0240666.	2.5	4
30	Uncertainty modulated exploration in the trade-off between sensing and acting. PLoS ONE, 2018, 13, e0199544.	2.5	3
31	Stability of Phase Relationships While Coordinating Arm Reaches with Whole Body Motion. PLoS ONE, 2015, 10, e0146231.	2.5	2
32	Perception of the dynamic visual vertical during sinusoidal linear motion. Journal of Neurophysiology, 2017, 118, 2499-2506.	1.8	2
33	Bayesian adaptive stimulus selection for dissociating models of psychophysical data. Journal of Vision, 2018, 18, 12.	0.3	1
34	Flexible Visuomotor Associations in Touchscreen Control. Frontiers in Human Neuroscience, 2017, 11, 558.	2.0	0
35	Single versus dual-rate learning when exposed to Coriolis forces during reaching movements. , 2020, 15, e0240666.		0
36	Single versus dual-rate learning when exposed to Coriolis forces during reaching movements. , 2020, 15, e0240666.		0

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37	Single versus dual-rate learning when exposed to Coriolis forces during reaching movements. , 2020, 15, e0240666.		0
38	Single versus dual-rate learning when exposed to Coriolis forces during reaching movements. , 2020, 15, e0240666.		0
39	Single versus dual-rate learning when exposed to Coriolis forces during reaching movements. , 2020, 15, e0240666.		0
40	Single versus dual-rate learning when exposed to Coriolis forces during reaching movements. , 2020, 15, e0240666.		0
41	Assessing corticospinal excitability and reaching hand choice during whole-body motion. Journal of Neurophysiology, 0, , .	1.8	0