Frederic Crevecoeur

List of Publications by Year
in descending order

51	1,598	304743	361022
papers	citations	22 h-index	35 g-index

66	66	66	889
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of the behavioral goal and environmental obstacles on rapid feedback responses. Journal of Neurophysiology, 2012, 108, 999-1009.	1.8	146
2	Rapid Online Selection between Multiple Motor Plans. Journal of Neuroscience, 2014, 34, 1769-1780.	3.6	130
3	Dynamic Multisensory Integration: Somatosensory Speed Trumps Visual Accuracy during Feedback Control. Journal of Neuroscience, 2016, 36, 8598-8611.	3.6	84
4	Optimal Integration of Gravity in Trajectory Planning of Vertical Pointing Movements. Journal of Neurophysiology, 2009, 102, 786-796.	1.8	72
5	Priors Engaged in Long-Latency Responses to Mechanical Perturbations Suggest a Rapid Update in State Estimation. PLoS Computational Biology, 2013, 9, e1003177.	3.2	69
6	A perspective on multisensory integration and rapid perturbation responses. Vision Research, 2015, 110, 215-222.	1.4	66
7	Feedback responses rapidly scale with the urgency to correct for external perturbations. Journal of Neurophysiology, 2013, 110, 1323-1332.	1.8	57
8	Beyond Muscles Stiffness: Importance of State-Estimation to Account for Very Fast Motor Corrections. PLoS Computational Biology, 2014, 10, e1003869.	3.2	57
9	Fast corrective responses are evoked by perturbations approaching the natural variability of posture and movement tasks. Journal of Neurophysiology, 2012, 107, 2821-2832.	1.8	54
10	Robust Control in Human Reaching Movements: A Model-Free Strategy to Compensate for Unpredictable Disturbances. Journal of Neuroscience, 2019, 39, 8135-8148.	3.6	53
11	Movement Stability Under Uncertain Internal Models of Dynamics. Journal of Neurophysiology, 2010, 104, 1301-1313.	1.8	52
12	Fast feedback control involves two independent processes utilizing knowledge of limb dynamics. Journal of Neurophysiology, 2014, 111, 1631-1645.	1.8	43
13	Temporal organization of stride duration variability as a marker of gait instability in Parkinson's disease. Journal of Rehabilitation Medicine, 2016, 48, 865-871.	1.1	42
14	Improving the state estimation for optimal control of stochastic processes subject to multiplicative noise. Automatica, 2011, 47, 591-596.	5.0	41
15	The gravitational imprint on sensorimotor planning and control. Journal of Neurophysiology, 2020, 124, 4-19.	1.8	38
16	Towards a â€œgold-standardâ€•approach to address the presence of long-range auto-correlation in physiological time series. Journal of Neuroscience Methods, 2010, 192, 163-172.	2.5	36
17	Long-latency reflexes for inter-effector coordination reflect a continuous state feedback controller. Journal of Neurophysiology, 2018, 120, 2466-2483.	1.8	36
18	Saccadic suppression as a perceptual consequence of efficient sensorimotor estimation. ELife, 2017, 6, .	6.0	35

#	Article	IF	Citations
19	A Very Fast Time Scale of Human Motor Adaptation: Within Movement Adjustments of Internal Representations during Reaching. ENeuro, 2020, 7, ENEURO.0149-19.2019.	1.9	34
20	Forward models of inertial loads in weightlessness. Neuroscience, 2009, 161, 589-598.	2.3	33
21	Multisensory components of rapid motor responses to fingertip loading. Journal of Neurophysiology, 2017, 118, 331-343.	1.8	28
22	Does human gait exhibit comparable and reproducible long-range autocorrelations on level ground and on treadmill?. Gait and Posture, 2010, 32, 369-373.	1.4	27
23	Effects of age and walking speed on long-range autocorrelations and fluctuation magnitude of stride duration. Neuroscience, 2012, 210, 234-242.	2.3	27
24	Variability of Human Gait: Effect of Backward Walking and Dual-Tasking on the Presence of Long-Range Autocorrelations. Annals of Biomedical Engineering, 2014, 42, 742-750.	2.5	23
25	Reward boosts reinforcement-based motor learning. IScience, 2021, 24, 102821.	4.1	23
26	Feedback Adaptation to Unpredictable Force Fields in 250 ms. ENeuro, 2020, 7, ENEURO.0400-19.2020.	1.9	20
27	Impact of series length on statistical precision and sensitivity of autocorrelation assessment in human locomotion. Human Movement Science, 2017, 55, 31-42.	1.4	19
28	Integration of proprioceptive and visual feedback during online control of reaching. Journal of Neurophysiology, 2022, 127, 354-372.	1.8	18
29	Sensorimotor Mapping for Anticipatory Grip Force Modulation. Journal of Neurophysiology, 2010, 104, 1401-1408.	1.8	17
30	Online modification of goal-directed control in human reaching movements. Journal of Neurophysiology, 2021, 125, 1883-1898.	1.8	17
31	Long-Latency Feedback Coordinates Upper-Limb and Hand Muscles during Object Manipulation Tasks. ENeuro, 2016, 3, ENEURO.0129-15.2016.	1.9	17
32	Adaptive control of grip force to compensate for static and dynamic torques during object manipulation. Journal of Neurophysiology, 2011, 106, 2973-2981.	1.8	15
33	Dynamics of Revolution Time Variability in Cycling Pattern: Voluntary Intent Can Alter the Long-Range Autocorrelations. Annals of Biomedical Engineering, 2013, 41, 1604-1612.	2.5	15
34	Optimal use of limb mechanics distributes control during bimanual tasks. Journal of Neurophysiology, 2018, 119, 921-932.	1.8	15
35	Correlations Between Primary Motor Cortex Activity with Recent Past and Future Limb Motion During Unperturbed Reaching. Journal of Neuroscience, 2018, 38, 7787-7799.	3.6	12
36	Effects of pupillary light and darkness reflex on the generation of proâ€•And antiâ€saccades. European Journal of Neuroscience, 2021, 53, 1769-1782.	2.6	12

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37	Rapid Changes in Movement Representations during Human Reaching Could Be Preserved in Memory for at Least 850 ms. ENeuro, 2020, 7, ENEURO.0266-20.2020.	1.9	12
38	Gravity-dependent estimates of object mass underlie the generation of motor commands for horizontal limb movements. Journal of Neurophysiology, 2014, 112, 384-392.	1.8	11
39	Adaptive Feedback Control in Human Reaching Adaptation to Force Fields. Frontiers in Human Neuroscience, 2021, 15, 742608.	2.0	11
40	Reward-Dependent Selection of Feedback Gains Impacts Rapid Motor Decisions. ENeuro, 2022, 9, ENEURO.0439-21.2022.	1.9	9
41	Filtering Compensation for Delays and Prediction Errors during Sensorimotor Control. Neural Computation, 2019, 31, 738-764.	2.2	8
42	Interjoint coupling of position sense reflects sensory contributions of biarticular muscles. Journal of Neurophysiology, 2021, 125, 1223-1235.	1.8	7
43	Continuous Tracking of Task Parameters Tunes Reaching Control Online. ENeuro, 2022, 9, ENEURO.0055-22.2022.	1.9	7
44	Savings in Human Force Field Learning Supported by Feedback Adaptation. ENeuro, 2021, 8, ENEURO.0088-21.2021.	1.9	6
45	Inertial torque during reaching directly impacts grip-force adaptation to weightless objects. Experimental Brain Research, 2015, 233, 3323-3332.	1.5	5
46	Distinct adaptation patterns between grip dynamics and arm kinematics when the body is upside-down. Journal of Neurophysiology, 2021, 125, 862-874.	1.8	5
47	Feedback throttled down for smooth moves. Nature, 2014, 509, 38-39.	27.8	3
48	Structure-informed functional connectivity driven by identifiable and state-specific control regions. Network Neuroscience, 2021, 5, 591-613.	2.6	2
49	Analysis of long-range autocorrelation series: effect of the number of cycles on statistical precision and sensitivity. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 128-129.	1.6	1
50	Improving Functional Connectome Fingerprinting with Degree-Normalization. Brain Connectivity, 2021, , .	1.7	1
51	Analysis of revolution time variability in cycling pattern. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 269-270.	1.6	0