Benoni B Edin

List of Publications by Year
in descending order

42 papers	2,987 citations	218381 26 h-index	301761 39 g-index
43 all docs	43 docs citations	43 times ranked	2111 citing authors

#	Article	IF	Citations
1	Skin strain patterns provide kinaesthetic information to the human central nervous system.. Journal of Physiology, 1995, 487, 243-251.	1.3	310
2	Finger movement responses of cutaneous mechanoreceptors in the dorsal skin of the human hand. Journal of Neurophysiology, 1991, 65, 657-670.	0.9	304
3	Design of a cybernetic hand for perception and action. Biological Cybernetics, 2006, 95, 629-644.	0.6	287
4	Cutaneous afferents provide information about knee joint movements in humans. Journal of Physiology, 2001, 531, 289-297.	1.3	210
5	Independent control of human fingerâ€tip forces at individual digits during precision lifting.. Journal of Physiology, 1992, 450, 547-564.	1.3	196
6	Non-Invasive, Temporally Discrete Feedback of Object Contact and Release Improves Grasp Control of Closed-Loop Myoelectric Transradial Prostheses. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1314-1322.	2.7	170
7	Muscle afferent responses to isometric contractions and relaxations in humans. Journal of Neurophysiology, 1990, 63, 1307-1313.	0.9	132
8	Quantitative Analyses of Dynamic Strain Sensitivity in Human Skin Mechanoreceptors. Journal of Neurophysiology, 2004, 92, 3233-3243.	0.9	107
9	Bio-inspired sensorization of a biomechatronic robot hand for the grasp-and-lift task. Brain Research Bulletin, 2008, 75, 785-795.	1.4	90
10	Multi-channel EEG recordings during 3,936 grasp and lift trials with varying weight and friction. Scientific Data, 2014, 1, 140047.	2.4	82
11	Time-Discrete Vibrotactile Feedback Contributes to Improved Gait Symmetry in Patients With Lower Limb Amputations: Case Series. Physical Therapy, 2017, 97, 198-207.	1.1	76
12	Human Muscle Spindles Act as Forward Sensory Models. Current Biology, 2010, 20, 1763-1767.	1.8	73
13	Single unit retrieval in microneurography: a microprocessor-based device controlled by an operator. Journal of Neuroscience Methods, 1988, 24, 137-144.	1.3	70
14	Humans can integrate feedback of discrete events in their sensorimotor control of a robotic hand. Experimental Brain Research, 2014, 232, 3421-3429.	0.7	70
15	Surface strain measurements of fingertip skin under shearing. Journal of the Royal Society Interface, 2016, 13, 20150874.	1.5	68
16	Coordination of fingertip forces during human manipulation can emerge from independent neural networks controlling each engaged digit. Experimental Brain Research, 1997, 117, 67-79.	0.7	66
17	Discharges in Human Muscle Receptor Afferents during Block Grasping. Journal of Neuroscience, 2008, 28, 12632-12642.	1.7	63
18	Stretch sensitization of human muscle spindles.. Journal of Physiology, 1988, 400, 101-111.	1.3	60

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19	Mechanisms for Force Adjustments to Unpredictable Frictional Changes at Individual Digits During Two-Fingered Manipulation. Journal of Neurophysiology, 1998, 80, 1989-2002.	0.9	49
20	Cognitive function and other risk factors for mild traumatic brain injury in young men: nationwide cohort study. BMJ, The, 2013, 346, f723-f723.	3.0	49
21	Discharges in human muscle spindle afferents during a keyâ€pressing task. Journal of Physiology, 2008, 586, 5455-5470.	1.3	48
22	Humans Can Integrate Force Feedback to Toes in Their Sensorimotor Control of a Robotic Hand. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 560-567.	2.7	40
23	High-resolution imaging of skin deformation shows that afferents from human fingertips signal slip onset. ELife, 2021, 10, .	2.8	40
24	Task Requirements Influence Sensory Integration During Grasping in Humans. Learning and Memory, 2004, 11, 356-363.	0.5	38
25	Prediction of object contact during grasping. Experimental Brain Research, 2008, 190, 265-277.	0.7	31
26	Control of Forces Applied by Individual Fingers Engaged in Restraint of an Active Object. Journal of Neurophysiology, 1997, 78, 117-128.	0.9	28
27	Predictions Specify Reactive Control of Individual Digits in Manipulation. Journal of Neuroscience, 2002, 22, 600-610.	1.7	28
28	Assigning biological functions: making sense of causal chains. SynthÃˆse, 2008, 161, 203-218.	0.6	26
29	Human Ability to Discriminate Direction of Three-Dimensional Force Stimuli Applied to the Finger Pad. Journal of Neurophysiology, 2011, 105, 541-547.	0.9	26
30	A physiological method for relaying frictional information to a human teleoperator. IEEE Transactions on Systems, Man, and Cybernetics, 1993, 23, 427-432.	0.9	23
31	Grip Stabilization through Independent Finger Tactile Feedback Control. Sensors, 2020, 20, 1748.	2.1	23
32	Twitch contraction for identification of human muscle afferents. Acta Physiologica Scandinavica, 1987, 131, 129-138.	2.3	16
33	Task-dependent control of the jaw during food splitting in humans. Journal of Neurophysiology, 2014, 111, 2614-2623.	0.9	15
34	The â€˜initial burstâ€™ of human primary muscle spindle afferents has at least two components. Acta Physiologica Scandinavica, 1991, 143, 169-175.	2.3	11
35	A modified low-cost haptic interface as a tool for complex tactile stimulation. Medical Engineering and Physics, 2011, 33, 386-390.	0.8	11
36	<title>Neural network analysis of the information content in population responses from human periodontal receptors</title>. , 1992, , .		10

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37	Acquiring and adapting a novel audiomotor map in human grasping. Experimental Brain Research, 2006, 173, 487-497.	0.7	10
38	Short-term plasticity of the visuomotor map during grasping movements in humans. Learning and Memory, 2005, 12, 67-74.	0.5	9
39	Computing grip force and torque from finger nail images using Gaussian processes. , 2013, , .		8
40	Estimating Fingertip Forces, Torques, and Local Curvatures from Fingernail Images. Robotica, 2020, 38, 1242-1262.	1.3	7
41	Biting intentions modulate digastric reflex responses to sudden unloading of the jaw. Journal of Neurophysiology, 2014, 112, 1067-1073.	0.9	6
42	Muscle partitioning via multiple inputs: An alternative hypothesis. Behavioral and Brain Sciences, 1989, 12, 645-646.	0.4	0