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	High-resolution imaging of skin deformation shows that afferents from human fingertips signal slip onset. ELife, 2021, 10, .	2.8	40
2	Estimating Fingertip Forces, Torques, and Local Curvatures from Fingernail Images. Robotica, 2020, 38, 1242-1262.	1.3	7
3	Grip Stabilization through Independent Finger Tactile Feedback Control. Sensors, 2020, 20, 1748.	2.1	23
4	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
5	Surface strain measurements of fingertip skin under shearing. Journal of the Royal Society Interface, 2016, 13, 20150874.	1.5	68
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	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
8	Biting intentions modulate digastric reflex responses to sudden unloading of the jaw. Journal of Neurophysiology, 2014, 112, 1067-1073.	0.9	6
9	Multi-channel EEG recordings during 3,936 grasp and lift trials with varying weight and friction. Scientific Data, 2014, 1, 140047.	2.4	82
10	Task-dependent control of the jaw during food splitting in humans. Journal of Neurophysiology, 2014, 111, 2614-2623.	0.9	15
11	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
12	Computing grip force and torque from finger nail images using Gaussian processes. , 2013, , .		8
13	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
14	A modified low-cost haptic interface as a tool for complex tactile stimulation. Medical Engineering and Physics, 2011, 33, 386-390.	0.8	11
15	Human Muscle Spindles Act as Forward Sensory Models. Current Biology, 2010, 20, 1763-1767.	1.8	73
16	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
17	Assigning biological functions: making sense of causal chains. SynthÃˆse, 2008, 161, 203-218.	0.6	26
18	Prediction of object contact during grasping. Experimental Brain Research, 2008, 190, 265-277.	0.7	31

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19	Discharges in human muscle spindle afferents during a keyâ€pressing task. Journal of Physiology, 2008, 586, 5455-5470.	1.3	48
20	Bio-inspired sensorization of a biomechatronic robot hand for the grasp-and-lift task. Brain Research Bulletin, 2008, 75, 785-795.	1.4	90
21	Discharges in Human Muscle Receptor Afferents during Block Grasping. Journal of Neuroscience, 2008, 28, 12632-12642.	1.7	63
22	Design of a cybernetic hand for perception and action. Biological Cybernetics, 2006, 95, 629-644.	0.6	287
23	Acquiring and adapting a novel audiomotor map in human grasping. Experimental Brain Research, 2006, 173, 487-497.	0.7	10
24	Short-term plasticity of the visuomotor map during grasping movements in humans. Learning and Memory, 2005, 12, 67-74.	0.5	9
25	Task Requirements Influence Sensory Integration During Grasping in Humans. Learning and Memory, 2004, 11, 356-363.	0.5	38
26	Quantitative Analyses of Dynamic Strain Sensitivity in Human Skin Mechanoreceptors. Journal of Neurophysiology, 2004, 92, 3233-3243.	0.9	107
27	Predictions Specify Reactive Control of Individual Digits in Manipulation. Journal of Neuroscience, 2002, 22, 600-610.	1.7	28
28	Cutaneous afferents provide information about knee joint movements in humans. Journal of Physiology, 2001, 531, 289-297.	1.3	210
29	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
30	Control of Forces Applied by Individual Fingers Engaged in Restraint of an Active Object. Journal of Neurophysiology, 1997, 78, 117-128.	0.9	28
31	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
32	Skin strain patterns provide kinaesthetic information to the human central nervous system.. Journal of Physiology, 1995, 487, 243-251.	1.3	310
33	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
34	<title>Neural network analysis of the information content in population responses from human periodontal receptors</title>. , 1992, , .		10
35	Independent control of human fingerâ€tip forces at individual digits during precision lifting.. Journal of Physiology, 1992, 450, 547-564.	1.3	196
36	Finger movement responses of cutaneous mechanoreceptors in the dorsal skin of the human hand. Journal of Neurophysiology, 1991, 65, 657-670.	0.9	304

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37	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
38	Muscle afferent responses to isometric contractions and relaxations in humans. Journal of Neurophysiology, 1990, 63, 1307-1313.	0.9	132
39	Muscle partitioning via multiple inputs: An alternative hypothesis. Behavioral and Brain Sciences, 1989, 12, 645-646.	0.4	0
40	Single unit retrieval in microneurography: a microprocessor-based device controlled by an operator. Journal of Neuroscience Methods, 1988, 24, 137-144.	1.3	70
41	Stretch sensitization of human muscle spindles.. Journal of Physiology, 1988, 400, 101-111.	1.3	60
42	Twitch contraction for identification of human muscle afferents. Acta Physiologica Scandinavica, 1987, 131, 129-138.	2.3	16