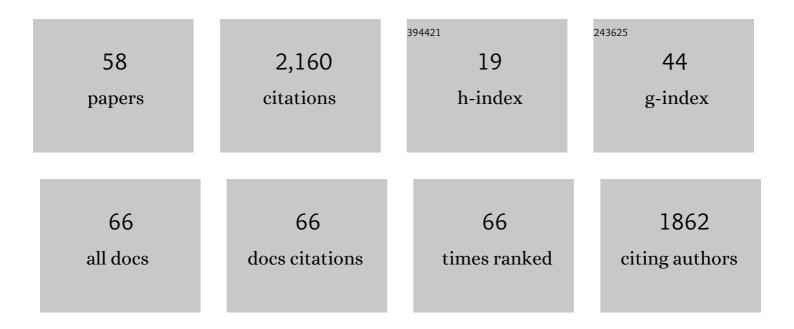
Ingvars Birznieks

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	First spikes in ensembles of human tactile afferents code complex spatial fingertip events. Nature Neuroscience, 2004, 7, 170-177.	14.8	501
2	Encoding of Direction of Fingertip Forces by Human Tactile Afferents. Journal of Neuroscience, 2001, 21, 8222-8237.	3.6	299
3	Melatonin agonist tasimelteon (VEC-162) for transient insomnia after sleep-time shift: two randomised controlled multicentre trials. Lancet, The, 2009, 373, 482-491.	13.7	193
4	Tactile Sensors for Friction Estimation and Incipient Slip Detection—Toward Dexterous Robotic Manipulation: A Review. IEEE Sensors Journal, 2018, 18, 9049-9064.	4.7	130
5	Influence of object shape on responses of human tactile afferents under conditions characteristic of manipulation. European Journal of Neuroscience, 2003, 18, 164-176.	2.6	113
6	Effects of deep and superficial experimentally induced acute pain on muscle sympathetic nerve activity in human subjects. Journal of Physiology, 2009, 587, 183-193.	2.9	66
7	Slowly Adapting Mechanoreceptors in the Borders of the Human Fingernail Encode Fingertip Forces. Journal of Neuroscience, 2009, 29, 9370-9379.	3.6	63
8	Mechanisms for Force Adjustments to Unpredictable Frictional Changes at Individual Digits During Two-Fingered Manipulation. Journal of Neurophysiology, 1998, 80, 1989-2002.	1.8	49
9	Spike Timing Matters in Novel Neuronal Code Involved in Vibrotactile Frequency Perception. Current Biology, 2017, 27, 1485-1490.e2.	3.9	47
10	Encoding of tangential torque in responses of tactile afferent fibres innervating the fingerpad of the monkey. Journal of Physiology, 2010, 588, 1057-1072.	2.9	43
11	Individual differences in the cardiovascular responses to tonic muscle pain: parallel increases or decreases in muscle sympathetic nerve activity, blood pressure and heart rate. Experimental Physiology, 2012, 97, 1084-1092.	2.0	43
12	Muscle spindles in human tibialis anterior encode muscle fascicle length changes. Journal of Neurophysiology, 2017, 117, 1489-1498.	1.8	42
13	Recent progress in artificial synaptic devices: materials, processing and applications. Journal of Materials Chemistry C, 2021, 9, 8372-8394.	5.5	41
14	The effects of experimental muscle and skin pain on the static stretch sensitivity of human muscle spindles in relaxed leg muscles. Journal of Physiology, 2008, 586, 2713-2723.	2.9	36
15	Tactile sensory channels over-ruled by frequency decoding system that utilizes spike pattern regardless of receptor type. ELife, 2019, 8, .	6.0	33
16	Effects of deep and superficial experimentally induced acute pain on skin sympathetic nerve activity in human subjects. Experimental Brain Research, 2009, 195, 317-324.	1.5	30
17	Control of Forces Applied by Individual Fingers Engaged in Restraint of an Active Object. Journal of Neurophysiology, 1997, 78, 117-128.	1.8	28
18	Modulation of Human Muscle Spindle Discharge by Arterial Pulsations - Functional Effects and Consequences. PLoS ONE, 2012, 7, e35091.	2.5	23

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19	Differential sensitivity to surface compliance by tactile afferents in the human finger pad. Journal of Neurophysiology, 2014, 111, 1308-1317.	1.8	22
20	Spontaneous fluctuations in the peripheral photoplethysmographic waveform: roles of arterial pressure and muscle sympathetic nerve activity. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H826-H836.	3.2	21
21	Tactile afferents encode grip safety before slip for different frictions. , 2014, 2014, 4123-6.		19
22	Initial contact shapes the perception of friction. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	19
23	The effects of preferential A- and C-fibre blocks and T-type calcium channel antagonist on detection of low-force monofilaments in healthy human participants. BMC Neuroscience, 2015, 16, 52.	1.9	18
24	Consistent interindividual increases or decreases in muscle sympathetic nerve activity during experimental muscle pain. Experimental Brain Research, 2014, 232, 1309-1315.	1,5	17
25	Effects of changing skin mechanics on the differential sensitivity to surface compliance by tactile afferents in the human finger pad. Journal of Neurophysiology, 2015, 114, 2249-2257.	1.8	17
26	Decoding tactile afferent activity to obtain an estimate of instantaneous force and torque applied to the fingerpad. Journal of Neurophysiology, 2015, 114, 474-484.	1.8	16
27	Friction sensing mechanisms for perception and motor control: passive touch without sliding may not provide perceivable frictional information. Journal of Neurophysiology, 2021, 125, 809-823.	1.8	15
28	Directional encoding of fingertip force by human tactile afferents. Acta Physiologica Scandinavica, 1999, 167, 181 A24-181 A24.	2.2	14
29	Tonic muscle pain does not increase fusimotor drive to human leg muscles: implications for chronic muscle pain. Experimental Physiology, 2013, 98, 1125-1132.	2.0	14
30	Classification of Texture and Frictional Condition at Initial Contact by Tactile Afferent Responses. Lecture Notes in Computer Science, 2014, , 460-468.	1.3	14
31	Tactile Motion Adaptation Reduces Perceived Speed but Shows No Evidence of Direction Sensitivity. PLoS ONE, 2012, 7, e45438.	2.5	14
32	The tactile motion aftereffect suggests an intensive code for speed in neurons sensitive to both speed and direction of motion. Journal of Neurophysiology, 2016, 115, 1703-1712.	1.8	13
33	Temporal patterns in electrical nerve stimulation: Burst gap code shapes tactile frequency perception. PLoS ONE, 2020, 15, e0237440.	2.5	10
34	Cutaneous Mechanoreceptors, Functional Behavior. , 2009, , 914-922.		10
35	Perceived Frequency of Aperiodic Vibrotactile Stimuli Depends on Temporal Encoding. Lecture Notes in Computer Science, 2018, , 199-208.	1.3	9
36	Movement Planning Determines Sensory Suppression: An Event-related Potential Study. Journal of Cognitive Neuroscience, 2021, 33, 2427-2439.	2.3	9

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37	Biphasic effects of tonic stimulation of muscle nociceptors on skin sympathetic nerve activity in human subjects. Experimental Brain Research, 2012, 221, 107-114.	1.5	8
38	Tapping Into the Language of Touch: Using Non-invasive Stimulation to Specify Tactile Afferent Firing Patterns. Frontiers in Neuroscience, 2020, 14, 500.	2.8	8
39	Can Video Self-Modeling Improve Affected Limb Reach and Grasp Ability in Stroke Patients?. Journal of Motor Behavior, 2018, 50, 117-126.	0.9	7
40	Peripheral Nerve Activation Evokes Machine-Learnable Signals in the Dorsal Column Nuclei. Frontiers in Systems Neuroscience, 2019, 13, 11.	2.5	7
41	Effects of tonic muscle pain on fusimotor control of human muscle spindles during isometric ankle dorsiflexion. Journal of Neurophysiology, 2019, 121, 1143-1149.	1.8	7
42	Lateral Skin Stretch Influences Direction Judgments of Motion Across the Skin. Lecture Notes in Computer Science, 2014, , 425-431.	1.3	7
43	Somatotopic mismatch following stroke: a pathophysiological condition escaping detection. BMJ Case Reports, 2012, 2012, bcr2012006304-bcr2012006304.	0.5	7
44	Generating tactile afferent stimulation patterns for slip and touch feedback in neural prosthetics. , 2013, 2013, 5922-5.		6
45	Single tactile afferents outperform human subjects in a vibrotactile intensity discrimination task. Journal of Neurophysiology, 2014, 112, 2382-2387.	1.8	6
46	Classifying Torque, Normal Force and Direction Using Monkey Afferent Nerve Spike Rates. Lecture Notes in Computer Science, 2010, , 43-50.	1.3	6
47	Somatotopic mismatch of hand representation following stroke: is recovery possible?. Neurocase, 2016, 22, 95-102.	0.6	5
48	Burst gap code predictions for tactile frequency are valid across the range of perceived frequencies attributed to two distinct tactile channels. Journal of Neurophysiology, 2021, 125, 687-692.	1.8	5
49	Differential responses in populations of fingertip tactile afferents to objects' surface curvatures. Acta Physiologica Scandinavica, 1999, 167, 181 A24-181 A25.	2.2	3
50	Decoding tactile sensation: Multiple regression analysis of monkey fingertip afferent mechanoreceptor population responses. , 2012, 2012, 4631-4.		3
51	Submillimeter Lateral Displacement Enables Friction Sensing and Awareness of Surface Slipperiness. IEEE Transactions on Haptics, 2022, 15, 20-25.	2.7	3
52	14-3-3. , 2008, , 1-1.		2
53	The Relationship Between Tactile Intensity Perception and Afferent Spike Count Is Moderated by a Function of Frequency. IEEE Transactions on Haptics, 2022, PP, 1-1.	2.7	2
54	The burst gap is a peripheral temporal code for pitch perception that is shared across audition and touch. Scientific Reports, 2022, 12, .	3.3	2

#	Article	IF	CITATIONS
55	The Bayesian Decoding of Force Stimuli from Slowly Adapting Type I Fibers in Humans. PLoS ONE, 2016, 11, e0153366.	2.5	1
56	A point process approach to encode tactile afferents. , 2015, , .		0
57	Haptics in Neuroscience. IEEE Transactions on Haptics, 2016, 9, 443-445.	2.7	Ο
58	Does muscle pain increase muscle stiffness?. , 2009, , 21-22.		0