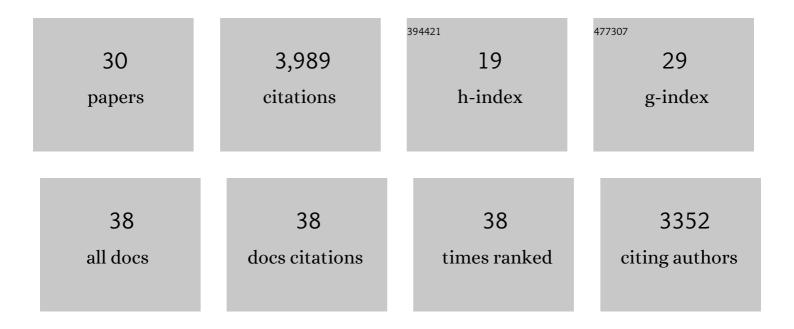
Dirk Bucher

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mapping circuit dynamics during function and dysfunction. ELife, 2022, 11, .	6.0	10
2	Inter-Animal Variability in Activity Phase Is Constrained by Synaptic Dynamics in an Oscillatory Network. ENeuro, 2022, 9, ENEURO.0027-22.2022.	1.9	5
3	Frequency-Dependent Action of Neuromodulation. ENeuro, 2021, 8, ENEURO.0338-21.2021.	1.9	12
4	Synaptic Dynamics Convey Differential Sensitivity to Input Pattern Changes in Two Muscles Innervated by the Same Motor Neurons. ENeuro, 2021, 8, ENEURO.0351-21.2021.	1.9	3
5	Mutual Suppression of Proximal and Distal Axonal Spike Initiation Determines the Output Patterns of a Motor Neuron. Frontiers in Cellular Neuroscience, 2019, 13, 477.	3.7	4
6	Distinct Co-Modulation Rules of Synapses and Voltage-Gated Currents Coordinate Interactions of Multiple Neuromodulators. Journal of Neuroscience, 2018, 38, 8549-8562.	3.6	28
7	Functional roles of short-term synaptic plasticity with an emphasis on inhibition. Current Opinion in Neurobiology, 2017, 43, 71-78.	4.2	55
8	Removal of endogenous neuromodulators in a small motor network enhances responsiveness to neuromodulation. Journal of Neurophysiology, 2017, 118, 1749-1761.	1.8	9
9	Ionic mechanisms underlying history-dependence of conduction delay in an unmyelinated axon. ELife, 2017, 6, .	6.0	16
10	The complexity of small circuits: the stomatogastric nervous system. Current Opinion in Neurobiology, 2016, 41, 1-7.	4.2	67
11	Neuropeptide Receptor Transcript Expression Levels and Magnitude of Ionic Current Responses Show Cell Type-Specific Differences in a Small Motor Circuit. Journal of Neuroscience, 2015, 35, 6786-6800.	3.6	39
12	Neuromodulation of neurons and synapses. Current Opinion in Neurobiology, 2014, 29, 48-56.	4.2	234
13	SnapShot: Neuromodulation. Cell, 2013, 155, 482-482.e1.	28.9	40
14	Dopamine Modulation of <i>I</i> _h Improves Temporal Fidelity of Spike Propagation in an Unmyelinated Axon. Journal of Neuroscience, 2012, 32, 5106-5119.	3.6	42
15	Short-Term Synaptic Plasticity Compensates for Variability in Number of Motor Neurons at a Neuromuscular Junction. Journal of Neuroscience, 2012, 32, 16007-16017.	3.6	20
16	Beyond faithful conduction: Short-term dynamics, neuromodulation, and long-term regulation of spike propagation in the axon. Progress in Neurobiology, 2011, 94, 307-346.	5.7	152
17	Dopamine Modulates Ih in a Motor Axon. Journal of Neuroscience, 2010, 30, 8425-8434.	3.6	38
18	Complex Intrinsic Membrane Properties and Dopamine Shape Spiking Activity in a Motor Axon. Journal of Neuroscience, 2009, 29, 5062-5074.	3.6	35

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19	Neuronal Homeostasis: Does Form Follow Function or Vice Versa?. Current Biology, 2009, 19, R64-R67.	3.9	6
20	Understanding Circuit Dynamics Using the Stomatogastric Nervous System of Lobsters and Crabs. Annual Review of Physiology, 2007, 69, 291-316.	13.1	591
21	Neuronal morphology and neuropil structure in the stomatogastric ganglion of the lobster, <i>Homarus americanus</i> . Journal of Comparative Neurology, 2007, 501, 185-205.	1.6	36
22	Central Pattern Generating Neurons Simultaneously Express Fast and Slow Rhythmic Activities in the Stomatogastric Ganglion. Journal of Neurophysiology, 2006, 95, 3617-3632.	1.8	60
23	Invertebrate Central Pattern Generation Moves along. Current Biology, 2005, 15, R685-R699.	3.9	263
24	Constant amplitude of postsynaptic responses for single presynaptic action potentials but not bursting input during growth of an identified neuromuscular junction in the lobster,Homarus americanus. Journal of Neurobiology, 2005, 62, 47-61.	3.6	16
25	Animal-to-Animal Variability in Motor Pattern Production in Adults and during Growth. Journal of Neuroscience, 2005, 25, 1611-1619.	3.6	171
26	Similar network activity from disparate circuit parameters. Nature Neuroscience, 2004, 7, 1345-1352.	14.8	914
27	Synaptic drive contributing to rhythmic activation of motoneurons in the deafferented stick insect walking system. European Journal of Neuroscience, 2004, 19, 1856-1862.	2.6	45
28	Axonal Dopamine Receptors Activate Peripheral Spike Initiation in a Stomatogastric Motor Neuron. Journal of Neuroscience, 2003, 23, 6866-6875.	3.6	54
29	Interjoint Coordination in the Stick Insect Leg-Control System: The Role of Positional Signaling. Journal of Neurophysiology, 2003, 89, 1245-1255.	1.8	56
30	Central pattern generators and the control of rhythmic movements. Current Biology, 2001, 11, R986-R996.	3.9	917