David Rotermund

List of Publications by Year
in descending order

20	327	1162367 8	1125271 13
papers	citations	h-index	g-index

27	27	27	338
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimal Short-Term Population Coding: When Fisher Information Fails. Neural Computation, 2002, 14, 2317-2351.	1.3	94
2	Marginally subcritical dynamics explain enhanced stimulus discriminability under attention. Frontiers in Systems Neuroscience, 2014, 8, 151.	1.2	43
3	Attention Improves Object Representation in Visual Cortical Field Potentials. Journal of Neuroscience, 2009, 29, 10120-10130.	1.7	30
4	Attention Selectively Gates Afferent Signal Transmission to Area V4. Journal of Neuroscience, 2018, 38, 3441-3452.	1.7	25
5	Second Order Phase Transition in Neural Rate Coding: Binary Encoding is Optimal for Rapid Signal Transmission. Physical Review Letters, 2003, 90, 088104.	2.9	24
6	Toward High Performance, Weakly Invasive Brain Computer Interfaces Using Selective Visual Attention. Journal of Neuroscience, 2013, 33, 6001-6011.	1.7	23
7	Towards On-line Adaptation of Neuro-prostheses with Neuronal Evaluation Signals. Biological Cybernetics, 2006, 95, 243-257.	0.6	15
8	Efficient Computation Based on Stochastic Spikes. Neural Computation, 2007, 19, 1313-1343.	1.3	11
9	Development of a Fully Implantable Recording System for ECoG Signals. , 2013, , .		11
10	Back-Propagation Learning in Deep Spike-By-Spike Networks. Frontiers in Computational Neuroscience, 2019, 13, 55.	1.2	10
11	Open Hardware for neuro-prosthesis research: A study about a closed-loop multi-channel system for electrical surface stimulations and measurements. HardwareX, 2019, 6, e00078.	1.1	6
12	Accelerating Spike-by-Spike Neural Networks on FPGA With Hybrid Custom Floating-Point and Logarithmic Dot-Product Approximation. IEEE Access, 2021, 9, 80603-80620.	2.6	5
13	Implications for a Wireless, External Device System to Study Electrocorticography. Sensors, 2017, 17, 761.	2.1	4
14	High-performance classification of contour percepts from EEG recordings. BMC Neuroscience, 2011, 12, .	0.8	1
15	Accelerator Framework of Spike-By-Spike Neural Networks for Inference and Incremental Learning in Embedded Systems. , 2020, , .		1
16	Phase differences in local field potentials from macaque monkey area V4 predict attentional state in single trials with 99.6% accuracy. BMC Neuroscience, 2009, 10, .	0.8	0
17	Enhancing information processing by synchronization. BMC Neuroscience, 2009, 10, .	0.8	0
18	High EEG-gamma-power codes perceptual states of ambiguous motion. BMC Neuroscience, 2009, 10, .	0.8	0

#	Article	IF	Citations
19	Compressed sensing with stochastic spikes. BMC Neuroscience, 2011, 12, .	0.8	0
20	Decoding perceptual states of ambiguous motion from high gamma EEG. Frontiers in Computational Neuroscience, 0, 3, .	1.2	0