

Michael Beyeler

List of Publications by Citations

Source: <https://exaly.com/author-pdf/111937/michael-beyeler-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29
papers

741
citations

14
h-index

27
g-index

40
ext. papers

988
ext. citations

5.3
avg, IF

4.09
L-index

#	Paper	IF	Citations
29	Neoadjuvant chemotherapy and extrapleural pneumonectomy of malignant pleural mesothelioma with or without hemithoracic radiotherapy (SAKK 17/04): a randomised, international, multicentre phase 2 trial. <i>Lancet Oncology</i> , 2015 , 16, 1651-8	21.7	140
28	Label-free detection of tobramycin in serum by transmission-localized surface plasmon resonance. <i>Analytical Chemistry</i> , 2015 , 87, 5278-85	7.8	95
27	Categorization and decision-making in a neurobiologically plausible spiking network using a STDP-like learning rule. <i>Neural Networks</i> , 2013 , 48, 109-24	9.1	70
26	The murine Fgfr1 receptor is essential for the development of the metanephric kidney. <i>Developmental Biology</i> , 2009 , 335, 106-19	3.1	54
25	The FGFR1 receptor is shed from cell membranes, binds fibroblast growth factors (FGFs), and antagonizes FGF signaling in <i>Xenopus</i> embryos. <i>Journal of Biological Chemistry</i> , 2010 , 285, 2193-202	5.4	54
24	Learning to see again: biological constraints on cortical plasticity and the implications for sight restoration technologies. <i>Journal of Neural Engineering</i> , 2017 , 14, 051003	5	48
23	A model of ganglion axon pathways accounts for percepts elicited by retinal implants. <i>Scientific Reports</i> , 2019 , 9, 9199	4.9	39
22	CARLsim 4: An Open Source Library for Large Scale, Biologically Detailed Spiking Neural Network Simulation using Heterogeneous Clusters 2018 ,		37
21	Identification of a fibronectin interaction site in the extracellular matrix protein ameloblastin. <i>Experimental Cell Research</i> , 2010 , 316, 1202-12	4.2	35
20	Neural correlates of sparse coding and dimensionality reduction. <i>PLoS Computational Biology</i> , 2019 , 15, e1006908	5	29
19	CARLsim 3: A user-friendly and highly optimized library for the creation of neurobiologically detailed spiking neural networks 2015 ,		29
18	A GPU-accelerated cortical neural network model for visually guided robot navigation. <i>Neural Networks</i> , 2015 , 72, 75-87	9.1	22
17	Vision-based robust road lane detection in urban environments 2014 ,		22
16	Efficient spiking neural network model of pattern motion selectivity in visual cortex. <i>Neuroinformatics</i> , 2014 , 12, 435-54	3.2	14
15	pulse2percept: A Python-based simulation framework for bionic vision 2017 ,		12
14	Data-driven models in human neuroscience and neuroengineering. <i>Current Opinion in Neurobiology</i> , 2019 , 58, 21-29	7.6	10
13	3D Visual Response Properties of MSTd Emerge from an Efficient, Sparse Population Code. <i>Journal of Neuroscience</i> , 2016 , 36, 8399-415	6.6	9

12	Exploring olfactory sensory networks: Simulations and hardware emulation 2010 ,		6
11	Biophysical model of axonal stimulation in epiretinal visual prostheses 2019 ,		3
10	GPGPU accelerated simulation and parameter tuning for neuromorphic applications 2014 ,		3
9	pulse2percept: A Python-based simulation framework for bionic vision		3
8	Modeling the perceptual experience of retinal prosthesis patients. <i>Journal of Vision</i> , 2017 , 17, 573	0.4	2
7	Sparse coding and dimensionality reduction in cortex		2
6	Model-Based Recommendations for Optimal Surgical Placement of Epiretinal Implants.. <i>Lecture Notes in Computer Science</i> , 2019 , 11768, 394-402	0.9	1
5	Explainable AI for Retinal Prostheses: Predicting Electrode Deactivation from Routine Clinical Measures 2021 ,		1
4	Deep LearningBased Scene Simplification for Bionic Vision 2021 ,		1
3	Commentary: Detailed Visual Cortical Responses Generated by Retinal Sheet Transplants in Rats With Severe Retinal Degeneration. <i>Frontiers in Neuroscience</i> , 2019 , 13, 471	5.1	0
2	A Computational Model of Phosphene Appearance for Epiretinal Prostheses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 4477-4481	0.9	0
1	Learning to see again: Perceptual learning of simulated abnormal on- off-cell population responses in sighted individuals.. <i>Journal of Vision</i> , 2021 , 21, 10	0.4	