

Michael Beyeler

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,149
citations

687335

13
h-index

940516

16
g-index

40
all docs

40
docs citations

40
times ranked

1686
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 1651-1658.	10.7	170
2	Label-Free Detection of Tobramycin in Serum by Transmission-Localized Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2015, 87, 5278-5285.	6.5	115
3	Categorization and decision-making in a neurobiologically plausible spiking network using a STDP-like learning rule. <i>Neural Networks</i> , 2013, 48, 109-124.	5.9	95
4	A model of ganglion axon pathways accounts for percepts elicited by retinal implants. <i>Scientific Reports</i> , 2019, 9, 9199.	3.3	86
5	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.	3.5	72
6	Neural correlates of sparse coding and dimensionality reduction. <i>PLoS Computational Biology</i> , 2019, 15, e1006908.	3.2	71
7	CARLsim 4: An Open Source Library for Large Scale, Biologically Detailed Spiking Neural Network Simulation using Heterogeneous Clusters. , 2018, , .		69
8	The murine Fgfr1 receptor is essential for the development of the metanephric kidney. <i>Developmental Biology</i> , 2009, 335, 106-119.	2.0	58
9	The FGFRL1 Receptor Is Shed from Cell Membranes, Binds Fibroblast Growth Factors (FGFs), and Antagonizes FGF Signaling in Xenopus Embryos. <i>Journal of Biological Chemistry</i> , 2010, 285, 2193-2202.	3.4	57
10	CARLsim 3: A user-friendly and highly optimized library for the creation of neurobiologically detailed spiking neural networks. , 2015, , .		40
11	Identification of a fibronectin interaction site in the extracellular matrix protein ameloblastin. <i>Experimental Cell Research</i> , 2010, 316, 1202-1212.	2.6	38
12	Vision-based robust road lane detection in urban environments. , 2014, , .		32
13	3D Visual Response Properties of MSTd Emerge from an Efficient, Sparse Population Code. <i>Journal of Neuroscience</i> , 2016, 36, 8399-8415.	3.6	32
14	A GPU-accelerated cortical neural network model for visually guided robot navigation. <i>Neural Networks</i> , 2015, 72, 75-87.	5.9	28
15	pulse2percept: A Python-based simulation framework for bionic vision. , 2017, , .		28
16	Data-driven models in human neuroscience and neuroengineering. <i>Current Opinion in Neurobiology</i> , 2019, 58, 21-29.	4.2	25
17	Deep Learning-Based Scene Simplification for Bionic Vision. , 2021, , .		24
18	Efficient Spiking Neural Network Model of Pattern Motion Selectivity in Visual Cortex. <i>Neuroinformatics</i> , 2014, 12, 435-454.	2.8	21

#	ARTICLE	IF	CITATIONS
19	Exploring olfactory sensory networks: Simulations and hardware emulation. , 2010, , .		12
20	Biophysical model of axonal stimulation in epiretinal visual prostheses. , 2019, , .		9
21	A Computational Model of Phosphene Appearance for Epiretinal Prostheses. , 2021, 2021, 4477-4481.		7
22	Deep Learningâ€Based Perceptual Stimulus Encoder for Bionic Vision. , 2022, , .		7
23	GPGPU accelerated simulation and parameter tuning for neuromorphic applications. , 2014, , .		5
24	Towards Immersive Virtual Reality Simulations of Bionic Vision. , 2021, , .		5
25	Model-Based Recommendations for Optimal Surgical Placement of Epiretinal Implants. Lecture Notes in Computer Science, 2019, 11768, 394-402.	1.3	5
26	Immersive Virtual Reality Simulations of Bionic Vision. , 2022, , .		5
27	Explainable AI for Retinal Prostheses: Predicting Electrode Deactivation from Routine Clinical Measures. , 2021, , .		4
28	Modeling the perceptual experience of retinal prosthesis patients. Journal of Vision, 2017, 17, 573.	0.3	4
29	Learning to see again: Perceptual learning of simulated abnormal on- off-cell population responses in sighted individuals. Journal of Vision, 2021, 21, 10.	0.3	3
30	Commentary: Detailed Visual Cortical Responses Generated by Retinal Sheet Transplants in Rats With Severe Retinal Degeneration. Frontiers in Neuroscience, 2019, 13, 471.	2.8	2