

Markus A Dahlem

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,862
citations

279798

23
h-index

289244

40
g-index

50
all docs

50
docs citations

50
times ranked

1731
citing authors

#	ARTICLE	IF	CITATIONS
1	The continuum of spreading depolarizations in acute cortical lesion development: Examining Leão's legacy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1571-1594.	4.3	297
2	Recording, analysis, and interpretation of spreading depolarizations in neurointensive care: Review and recommendations of the COSBID research group. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1595-1625.	4.3	255
3	Time-delayed feedback in neurosystems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1079-1096.	3.4	141
4	Is Spreading Depolarization Characterized by an Abrupt, Massive Release of Gibbs Free Energy from the Human Brain Cortex?. <i>Neuroscientist</i> , 2013, 19, 25-42.	3.5	74
5	The Role of Cell Volume in the Dynamics of Seizure, Spreading Depression, and Anoxic Depolarization. <i>PLoS Computational Biology</i> , 2015, 11, e1004414.	3.2	72
6	Self-induced splitting of spiral-shaped spreading depression waves in chicken retina. <i>Experimental Brain Research</i> , 1997, 115, 319-324.	1.5	65
7	Radial, spiral and reverberating waves of spreading depolarization occur in the gyrencephalic brain. <i>NeuroImage</i> , 2014, 99, 244-255.	4.2	65
8	Migraine Aura: Retracting Particle-Like Waves in Weakly Susceptible Cortex. <i>PLoS ONE</i> , 2009, 4, e5007.	2.5	61
9	Two-dimensional wave patterns of spreading depolarization: Retracting, re-entrant, and stationary waves. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 889-903.	2.8	59
10	Failure of feedback as a putative common mechanism of spreading depolarizations in migraine and stroke. <i>Chaos</i> , 2008, 18, 026110.	2.5	54
11	DYNAMICS OF DELAY-COUPLED EXCITABLE NEURAL SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009, 19, 745-753.	1.7	54
12	Dynamics from Seconds to Hours in Hodgkin-Huxley Model with Time-Dependent Ion Concentrations and Buffer Reservoirs. <i>PLoS Computational Biology</i> , 2014, 10, e1003941.	3.2	51
13	The role of extracellular potassium dynamics in the different stages of ictal bursting and spreading depression: A computational study. <i>Journal of Theoretical Biology</i> , 2009, 258, 219-228.	1.7	50
14	Bistable Dynamics Underlying Excitability of Ion Homeostasis in Neuron Models. <i>PLoS Computational Biology</i> , 2014, 10, e1003551.	3.2	48
15	Controlling the onset of traveling pulses in excitable media by nonlocal spatial coupling and time-delayed feedback. <i>Chaos</i> , 2009, 19, 015110.	2.5	46
16	How does spreading depression spread? Physiology and modeling. <i>Reviews in the Neurosciences</i> , 2015, 26, 183-98.	2.9	33
17	Migraine aura dynamics after reverse retinotopic mapping of weak excitation waves in the primary visual cortex. <i>Biological Cybernetics</i> , 2003, 88, 419-424.	1.3	32
18	Does the migraine aura reflect cortical organization?. <i>European Journal of Neuroscience</i> , 2000, 12, 767-770.	2.6	31

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19	Migraine generator network and spreading depression dynamics as neuromodulation targets in episodic migraine. <i>Chaos</i> , 2013, 23, 046101.	2.5	31
20	Transient Localized Wave Patterns and Their Application to Migraine. <i>Journal of Mathematical Neuroscience</i> , 2013, 3, 7.	2.4	28
21	Circles are different: The perception of Glass patterns modulates early event-related potentials. <i>Vision Research</i> , 2005, 45, 2668-2676.	1.4	27
22	Understanding migraine using dynamic network biomarkers. <i>Cephalalgia</i> , 2015, 35, 627-630.	3.9	27
23	Heterogeneous propagation of spreading depolarizations in the lissencephalic and gyrencephalic brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2639-2643.	4.3	27
24	Extracellular potassium alters frequency and profile of retinal spreading depression waves. <i>Experimental Brain Research</i> , 2003, 152, 221-228.	1.5	26
25	Validation of an algorithm for automated classification of migraine and tension-type headache attacks in an electronic headache diary. <i>Journal of Headache and Pain</i> , 2020, 21, 75.	6.0	26
26	CONTROL OF SYNCHRONIZATION IN COUPLED NEURAL SYSTEMS BY TIME-DELAYED FEEDBACK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 813-825.	1.7	24
27	Nucleation of reaction-diffusion waves on curved surfaces. <i>New Journal of Physics</i> , 2014, 16, 053010.	2.9	22
28	Simulation of spreading depolarization trajectories in cerebral cortex: Correlation of velocity and susceptibility in patients with aneurysmal subarachnoid hemorrhage. <i>NeuroImage: Clinical</i> , 2017, 16, 524-538.	2.7	22
29	Linking a genetic defect in migraine to spreading depression in a computational model. <i>PeerJ</i> , 2014, 2, e379.	2.0	21
30	Towards dynamical network biomarkers in neuromodulation of episodic migraine. <i>Translational Neuroscience</i> , 2013, 4, .	1.4	19
31	Image Processing Techniques Applied to Excitation Waves in the Chicken Retina. <i>Methods</i> , 2000, 21, 317-323.	3.8	17
32	Cortical hot spots and labyrinths: why cortical neuromodulation for episodic migraine with aura should be personalized. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 29.	2.1	16
33	Time-Delayed Feedback Control: From Simple Models to Lasers and Neural Systems. <i>Understanding Complex Systems</i> , 2009, , 85-150.	0.6	8
34	Predicted Selective Increase of Cortical Magnification Due to Cortical Folding. <i>Journal of Mathematical Neuroscience</i> , 2012, 2, 14.	2.4	7
35	Determining the Evolution of Headache Among Regular Users of a Daily Electronic Diary via a Smartphone App: Observational Study. <i>JMIR MHealth and UHealth</i> , 2021, 9, e26401.	3.7	7
36	Spatio-Temporal Aspects of a Dynamical Disease: Waves of Spreading Depression. , 2004, , 421-434.		3

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37	Synchronization of noise-induced oscillations by time-delayed feedback. AIP Conference Proceedings, 2007, , .	0.4	2
38	Study Design and Protocol of a Randomized Controlled Trial of the Efficacy of a Smartphone-Based Therapy of Migraine (SMARTGEM). Frontiers in Neurology, 0, 13, .	2.4	2
39	ECoG-based short-range recurrent stimulation techniques to stabilize tissue at risk of progressive damage: Theory based on clinical observations. Nature Precedings, 2009, , .	0.1	1
40	Rotation-Invariant Optical Flow by Gaze-Depended Retino-Cortical Mapping. Lecture Notes in Computer Science, 2002, , 137-145.	1.3	1
41	Migraines and Cortical Spreading Depression. , 2013, , 1-10.		1
42	Migraines and Cortical Spreading Depression. , 2014, , 1-9.		0
43	Migraines and Cortical Spreading Depression. , 2018, , 1-9.		0
44	Migraines and Cortical Spreading Depression. , 2022, , 2035-2043.		0