

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	Migraines and Cortical Spreading Depression. , 2022, , 2035-2043.		0
2	Determining the Evolution of Headache Among Regular Users of a Daily Electronic Diary via a Smartphone App: Observational Study. JMIR MHealth and UHealth, 2021, 9, e26401.	3.7	7
3	Validation of an algorithm for automated classification of migraine and tension-type headache attacks in an electronic headache diary. Journal of Headache and Pain, 2020, 21, 75.	6.0	26
4	Migraines and Cortical Spreading Depression. , 2018, , 1-9.		0
5	The continuum of spreading depolarizations in acute cortical lesion development: Examining LeAxi's legacy. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1571-1594.	4.3	297
6	Recording, analysis, and interpretation of spreading depolarizations in neurointensive care: Review and recommendations of the COSBID research group. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1595-1625.	4.3	255
7	Simulation of spreading depolarization trajectories in cerebral cortex: Correlation of velocity and susceptibility in patients with aneurysmal subarachnoid hemorrhage. NeuroImage: Clinical, 2017, 16, 524-538.	2.7	22
8	Heterogeneous propagation of spreading depolarizations in the lissencephalic and gyrencephalic brain. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2639-2643.	4.3	27
9	Cortical hot spots and labyrinths: why cortical neuromodulation for episodic migraine with aura should be personalized. Frontiers in Computational Neuroscience, 2015, 9, 29.	2.1	16
10	Understanding migraine using dynamic network biomarkers. Cephalalgia, 2015, 35, 627-630.	3.9	27
11	How does spreading depression spread? Physiology and modeling. Reviews in the Neurosciences, 2015, 26, 183-98.	2.9	33
12	The Role of Cell Volume in the Dynamics of Seizure, Spreading Depression, and Anoxic Depolarization. PLoS Computational Biology, 2015, 11, e1004414.	3.2	72
13	Dynamics from Seconds to Hours in Hodgkin-Huxley Model with Time-Dependent Ion Concentrations and Buffer Reservoirs. PLoS Computational Biology, 2014, 10, e1003941.	3.2	51
14	Nucleation of reaction-diffusion waves on curved surfaces. New Journal of Physics, 2014, 16, 053010.	2.9	22
15	Bistable Dynamics Underlying Excitability of Ion Homeostasis in Neuron Models. PLoS Computational Biology, 2014, 10, e1003551.	3.2	48
16	Radial, spiral and reverberating waves of spreading depolarization occur in the gyrencephalic brain. NeuroImage, 2014, 99, 244-255.	4.2	65
17	Linking a genetic defect in migraine to spreading depression in a computational model. PeerJ, 2014, 2, e379.	2.0	21
18	Migraines and Cortical Spreading Depression. , 2014, , 1-9.		0

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19	Transient Localized Wave Patterns and Their Application to Migraine. <i>Journal of Mathematical Neuroscience</i> , 2013, 3, 7.	2.4	28
20	Towards dynamical network biomarkers in neuromodulation of episodic migraine. <i>Translational Neuroscience</i> , 2013, 4, .	1.4	19
21	Migraine generator network and spreading depression dynamics as neuromodulation targets in episodic migraine. <i>Chaos</i> , 2013, 23, 046101.	2.5	31
22	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
23	Migraines and Cortical Spreading Depression. , 2013, , 1-10.		1
24	Predicted Selective Increase of Cortical Magnification Due to Cortical Folding. <i>Journal of Mathematical Neuroscience</i> , 2012, 2, 14.	2.4	7
25	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
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	ECoG-based short-range recurrent stimulation techniques to stabilize tissue at risk of progressive damage: Theory based on clinical observations. <i>Nature Precedings</i> , 2009, , .	0.1	1
28	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
29	Time-delayed feedback in neurosystems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1079-1096.	3.4	141
30	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
31	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
32	Time-Delayed Feedback Control: From Simple Models to Lasers and Neural Systems. <i>Understanding Complex Systems</i> , 2009, , 85-150.	0.6	8
33	Migraine Aura: Retracting Particle-Like Waves in Weakly Susceptible Cortex. <i>PLoS ONE</i> , 2009, 4, e5007.	2.5	61
34	Failure of feedback as a putative common mechanism of spreading depolarizations in migraine and stroke. <i>Chaos</i> , 2008, 18, 026110.	2.5	54
35	Synchronization of noise-induced oscillations by time-delayed feedback. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	2
36	Circles are different: The perception of Glass patterns modulates early event-related potentials. <i>Vision Research</i> , 2005, 45, 2668-2676.	1.4	27

#	ARTICLE	IF	CITATIONS
37	Spatio-Temporal Aspects of a Dynamical Disease: Waves of Spreading Depression. , 2004, , 421-434.		3
38	Extracellular potassium alters frequency and profile of retinal spreading depression waves. Experimental Brain Research, 2003, 152, 221-228.	1.5	26
39	Migraine aura dynamics after reverse retinotopic mapping of weak excitation waves in the primary visual cortex. Biological Cybernetics, 2003, 88, 419-424.	1.3	32
40	Rotation-Invariant Optical Flow by Gaze-Depended Retino-Cortical Mapping. Lecture Notes in Computer Science, 2002, , 137-145.	1.3	1
41	Does the migraine aura reflect cortical organization?. European Journal of Neuroscience, 2000, 12, 767-770.	2.6	31
42	Image Processing Techniques Applied to Excitation Waves in the Chicken Retina. Methods, 2000, 21, 317-323.	3.8	17
43	Self-induced splitting of spiral-shaped spreading depression waves in chicken retina. Experimental Brain Research, 1997, 115, 319-324.	1.5	65
44	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