Mitsuyuki Nakao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8980235/publications.pdf

Version: 2024-02-01

75	756	567144	552653
papers	citations	15 h-index	26 g-index

75	75	75	599
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Novel Extraction Method of Fetal Electrocardiogram From the Composite Abdominal Signal. IEEE Transactions on Biomedical Engineering, 2007, 54, 49-58.	2.5	101
2	A Quartet Neural System Model Orchestrating Sleep and Wakefulness Mechanisms. Journal of Neurophysiology, 2006, 95, 2055-2069.	0.9	68
3	Phase-locking of spontaneous and elicited pontoâ€“geniculoâ€“occipital waves is associated with acceleration of hippocampal theta waves during rapid eye movement sleep in cats. Brain Research, 2002, 958, 347-358.	1.1	54
4	Period and Phase Adjustments of Human Circadian Rhythms in the Real World. Journal of Biological Rhythms, 2003, 18, 261-270.	1.4	43
5	Instantaneous acceleration and amplification of hippocampal theta wave coincident with phasic pontine activities during REM sleep. Brain Research, 2005, 1051, 50-56.	1.1	38
6	Theta wave amplitude and frequency are differentially correlated with pontine waves and rapid eye movements during REM sleep in rats. Neuroscience Research, 2004, 50, 283-289.	1.0	37
7	Altered frequency-dependent characteristics of the cardiac baroreflex in essential hypertension. Journal of the Autonomic Nervous System, 1994, 49, 33-45.	1.9	31
8	A Thermoregulatory Model of Sleep Control.. The Japanese Journal of Physiology, 1995, 45, 291-309.	0.9	30
9	Quantitative characteristics of alpha and theta EEG activities during sensory deprivation. Psychiatry and Clinical Neurosciences, 2001, 55, 191-192.	1.0	28
10	Spectral distortion properties of the integral pulse frequency modulation model. IEEE Transactions on Biomedical Engineering, 1997, 44, 419-426.	2.5	26
11	Enhancement of Synchronization Between Hippocampal and Amygdala Theta Waves Associated With Pontine Wave Density. Journal of Neurophysiology, 2010, 103, 2318-2325.	0.9	23
12	A Phase Dynamics Model of Human Circadian Rhythms. Journal of Biological Rhythms, 2002, 17, 476-489.	1.4	21
13	Thermoregulatory Model of Sleep Control: Losing the Heat Memory. Journal of Biological Rhythms, 1999, 14, 549-558.	1.4	17
14	Sleep EEG dynamics in rat barrel cortex associated with sensory deprivation. NeuroReport, 2004, 15, 2681-2684.	0.6	17
15	Acute differential sensitivity and role of the central nervous system in the feeding behavior of Drosophila melanogaster. Chemical Senses, 1987, 12, 481-490.	1.1	15
16	Synchronization between hippocampal theta waves and PGO waves during REM sleep. Psychiatry and Clinical Neurosciences, 2001, 55, 189-190.	1.0	15
17	Phase-locking of spontaneous and tone-elicited pontine waves to hippocampal theta waves during REM sleep in rats. Brain Research, 2007, 1182, 73-81.	1.1	15
18	Bifurcation properties of the two process model. Psychiatry and Clinical Neurosciences, 1998, 52, 131-133.	1.0	14

#	Article	IF	Citations
19	Investigation of the time delay between variations in heart rate and blood pressure. Medical and Biological Engineering and Computing, 1999, 37, 344-347.	1.6	13
20	Mathematical models of regulatory mechanisms of sleep-wake rhythms. Cellular and Molecular Life Sciences, 2007, 64, 1236-1243.	2.4	12
21	Dynamical Features of Thermoregulatory Model of Sleep Control.. The Japanese Journal of Physiology, 1995, 45, 311-326.	0.9	12
22	An optimal control model of 1/f fluctuations in heart rate variability. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 77-87.	1.1	11
23	Normal sympathetic vasomotor and cardiac parasympathetic activities in patients with primary aldosteronism: assessment by spectral analysis. Journal of the Autonomic Nervous System, 1995, 52, 213-223.	1.9	10
24	A model-based interpretation of the biphasic daily pattern of sleepiness. Biological Cybernetics, 1999, 81, 403-414.	0.6	9
25	Elicited ponto-geniculo-occipital waves by auditory stimuli are synchronized with hippocampal theta-waves. Psychiatry and Clinical Neurosciences, 2002, 56, 343-344.	1.0	9
26	Modeling interactions between photic and nonphotic entrainment mechanisms in transmeridian flights. Biological Cybernetics, 2004, 91, 138-47.	0.6	8
27	Resting-state functional connectivity analysis of the mouse brain using intrinsic optical signal imaging of cerebral blood volume dynamics. Physiological Measurement, 2018, 39, 054003.	1.2	7
28	A study on polysomnographic observations and subjective experiences under sensory deprivation. Psychiatry and Clinical Neurosciences, 1999, 53, 129-131.	1.0	6
29	A circadian system model with feedback of cross-correlation between sleep-wake rhythm and oscillator. Psychiatry and Clinical Neurosciences, 2001, 55, 295-297.	1.0	6
30	Integrated model incorporating circadian phase dynamics and the thermoregulatory mechanism of sleep. Sleep and Biological Rhythms, 2007, 5, 259-270.	0.5	5
31	The 3D position estimation of neurons in the hippocampus based on the multi-site multi-unit recordings with silicon tetrodes. , 2008, 2008, 5021-4.		5
32	Parameter estimation of the threshold time function in the neural system. Biological Cybernetics, 1983, 48, 131-137.	0.6	4
33	Identification and estimation algorithm for stochastic neural system. Biological Cybernetics, 1984, 50, 241-249.	0.6	4
34	Measurement method for the fetal electrocardiogram. Minimally Invasive Therapy and Allied Technologies, 2006, 15, 214-217.	0.6	3
35	Multi-neuron action potentials recorded with tetrode are not instantaneous mixtures of single neuronal action potentials. , 2009, 2009, 4019-22.		3
36	Subjective sleep quality, quantitative sleep features, and their associations dependent on demographic characteristics, habitual sleepâ€“wake patterns, and distinction of weekdays/weekends. Sleep and Biological Rhythms, 2021, 19, 369-381.	0.5	3

#	Article	IF	Citations
37	Identification and estimation algorithm for stochastic neural system. II. Biological Cybernetics, 1985, 52, 71-78.	0.6	2
38	Modeling neuronal dynamics-transition during sleep. IEEE Engineering in Medicine and Biology Magazine, 1999, 18, 99-107.	1.1	2
39	Dynamics of a hybrid system of a brain neural network and an artificial nonlinear oscillator. BioSystems, 2000, 58, 249-257.	0.9	2
40	Phase shift of coupled oscillator model with feedbacks in response to multiple bright light exposure. Psychiatry and Clinical Neurosciences, 2002, 56, 215-216.	1.0	2
41	Fluctuations and synchronizations of neural activities during sleep: Neural basis of possible sleep functions?. Sleep and Biological Rhythms, 2006, 4, 44-54.	0.5	2
42	Evaluation of multidrug cancer chronotherapy based on cell cycle model under influences of circadian clock. , 2016, 2016, 1439-1442.		2
43	Consistency index of daily activity pattern and its correlations with subjective ratings of QOL. Sleep and Biological Rhythms, 2020, 18, 297-304.	0.5	2
44	Improvement of Diameter Selectivity in Nerve Recruitment Using Multi-cuff Electrodes. Advanced Biomedical Engineering, 2012, 1, 36-42.	0.4	2
45	Geometrie analysis of cardiovascular dynamics during sleep and wakefulness. , 1992, , .		1
46	Capability of intensity discrimination in multiple receptor model of insect taste. Chemical Senses, 1994, 19, 317-329.	1.1	1
47	Nightâ€“dayâ€“night sleepâ€“wakefulness monitoring by ambulatory integrated circuit memories. Psychiatry and Clinical Neurosciences, 1999, 53, 171-173.	1.0	1
48	A multivariate and multistate analysis of dynamics of cardiovascular signals. Systems and Computers in Japan, 2000, 31, 20-31.	0.2	1
49	Changes in the dynamics of sleep electroencephalogram in rat barrel cortex associated with long-term sensory deprivation. Sleep and Biological Rhythms, 2003, 1, 155-157.	0.5	1
50	The developing and learning brain during sleep. Sleep and Biological Rhythms, 2006, 4, 2-3.	0.5	1
51	Progressive changes in sleep electroencephalogram dynamics in the rat barrel cortex associated with long-term alternation of sensory input activities. Sleep and Biological Rhythms, 2008, 6, 208-214.	0.5	1
52	Robustness of the blind source separation with reference against uncertainties of the reference signals. , 2008, 2008, 1875-8.		1
53	Top-down modeling of hierarchical biological clock mechanisms. Sleep and Biological Rhythms, 2010, 8, 106-113.	0.5	1
54	Neural modeling for cooperative/competitive regulation of REM sleep with NREM sleep and wakefulness. , 0, , 437-449.		1

#	Article	IF	Citations
55	Parameter exploration of staircase-shape extracellular stimulation for targeted stimulation of myelinated axon. , 2011, 2011, 912-5.		1
56	Development of distance-selective nerve recruitment for subcortical brain mapping by controlling stimulation waveforms. , 2013, 2013, 1879-82.		1
57	Entrainability of cell cycle oscillator models with exponential growth of cell mass. , 2014, 2014, 6826-9.		1
58	Reduction of light source noise from optical intrinsic signals of mouse neocortex by using independent component analysis. , 2015, 2015, 6277-80.		1
59	Multimodal Functional Analysis Platform: 3. Spherical Treadmill System for Small Animals. Advances in Experimental Medicine and Biology, 2021, 1293, 493-500.	0.8	1
60	Novel Polygraphic Observations in High Frequency Range during Rapid Eye Movement Sleep.. Interdisciplinary Information Sciences, 1999, 5, 99-108.	0.2	1
61	Various Defuzzification Methods on DNA Similarity Matching Using Fuzzy Inference System. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2010, 14, 247-255.	0.5	1
62	Relative power contributions of unit discharges simultaneously recorded in the mesencephalic reticular formation. Psychiatry and Clinical Neurosciences, 2000, 54, 265-267.	1.0	0
63	A facial topographic profile of rapid eye movements anticipatory phasic potentials. Sleep and Biological Rhythms, 2003, 1, 151-152.	0.5	0
64	A real-time rapid eye movement sleep analyzer equipped with a portable wide-band polygraphic recorder. Sleep and Biological Rhythms, 2003, 1, 175-177.	0.5	0
65	Simulating transmeridian flights. Sleep and Biological Rhythms, 2004, 2, S54-S54.	0.5	0
66	Modeling of Extracellular Multiple Neuronal Activities in the Three-Dimensional Hippocampal Tissue based on the Fluctuation Analysis. AIP Conference Proceedings, 2007, , .	0.3	0
67	Separation of multiunit signals by independent component analysis in complex-valued time-frequency domain. , 2011, 2011, 4410-3.		0
68	Suppression of anodal break excitation by electrical stimulation with down-staircase waveform for distance-selective nerve recruitment. , 2012, 2012, 211-4.		0
69	Reconstruction of fetal vector electrocardiogram from maternal abdominal signals under fetus body rotations. , 2013, 2013, 7338-41.		0
70	Contribution of visual feedback to the hippocampal theta activity in mice. , 2013, , .		0
71	Is autonomy working under unconscious state of sleep?. , 2013, , .		0
72	Sleep Models. , 2015, , 511-516.		0

#	Article	IF	Citations
73	Reduction and Retrospection Approach to Modeling of Hierarchical Biological Rhythms. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1486-1490.	0.1	0
74	A possible mechanism for acute differential sensitivity of taste sensory system of insect.. Seibutsu Butsuri, 1988, 28, 305-308.	0.0	0
75	A Rise of Pricking Pain Threshold by Repetitive Radiant Heat Stimulations. Pain Research, 1992, 7, 115-122.	0.1	0