

Clayton Thomas Dickson

List of Publications by Year in descending order

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73
papers

3,628
citations

147801

31
h-index

144013

57
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76
all docs

76
docs citations

76
times ranked

3743
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclic and Sleep-Like Spontaneous Alternations of Brain State Under Urethane Anaesthesia. PLoS ONE, 2008, 3, e2004.	2.5	309
2	Properties and Role of h in the Pacing of Subthreshold Oscillations in Entorhinal Cortex Layer II Neurons. Journal of Neurophysiology, 2000, 83, 2562-2579.	1.8	288
3	Hippocampal Slow Oscillation: A Novel EEG State and Its Coordination with Ongoing Neocortical Activity. Journal of Neuroscience, 2006, 26, 6213-6229.	3.6	216
4	Active Expiration Induced by Excitation of Ventral Medulla in Adult Anesthetized Rats. Journal of Neuroscience, 2011, 31, 2895-2905.	3.6	204
5	Large-Scale Microelectrode Recordings of High-Frequency Gamma Oscillations in Human Cortex during Sleep. Journal of Neuroscience, 2010, 30, 7770-7782.	3.6	166
6	Anxiolytic- and antidepressant-like properties of ketamine in behavioral and neurophysiological animal models. Neuroscience, 2009, 161, 359-369.	2.3	150
7	Muscarinic Induction of Synchronous Population Activity in the Entorhinal Cortex. Journal of Neuroscience, 1997, 17, 6729-6744.	3.6	129
8	Ionic mechanisms in the generation of subthreshold oscillations and action potential clustering in entorhinal layer II stellate neurons. Hippocampus, 2004, 14, 368-384.	1.9	125
9	A better oscillation detection method robustly extracts EEG rhythms across brain state changes: The human alpha rhythm as a test case. NeuroImage, 2011, 54, 860-874.	4.2	119
10	Anxiolytic and antidepressant effects of intracerebroventricularly administered somatostatin: Behavioral and neurophysiological evidence. Neuroscience, 2008, 157, 666-676.	2.3	106
11	Oscillatory Activity in Entorhinal Neurons and Circuits: Mechanisms and Function. Annals of the New York Academy of Sciences, 2000, 911, 127-150.	3.8	86
12	Spontaneous Sleep-Like Brain State Alternations and Breathing Characteristics in Urethane Anesthetized Mice. PLoS ONE, 2013, 8, e70411.	2.5	86
13	Release of ATP by pre α tzinger complex astrocytes contributes to the hypoxic ventilatory response via a Ca^{2+} -dependent P2Y ₁ receptor mechanism. Journal of Physiology, 2018, 596, 3245-3269.	2.9	82
14	Evidence for Spatial Modules Mediated by Temporal Synchronization of Carbachol-Induced Gamma Rhythm in Medial Entorhinal Cortex. Journal of Neuroscience, 2000, 20, 7846-7854.	3.6	78
15	Electroresponsiveness of medial entorhinal cortex layer III neurons in vitro. Neuroscience, 1997, 81, 937-950.	2.3	77
16	State-Dependent Modulation of Breathing in Urethane-Anesthetized Rats. Journal of Neuroscience, 2012, 32, 11259-11270.	3.6	74
17	Classification of theta-related cells in the entorhinal cortex: Cell discharges are controlled by the ascending brainstem synchronizing pathway in parallel with hippocampal theta-related cells. Hippocampus, 1995, 5, 306-319.	1.9	72
18	In vivo intrahippocampal microinfusion of carbachol and bicuculline induces theta-like oscillations in the septally deafferented hippocampus. Hippocampus, 1991, 1, 381-390.	1.9	68

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19	BOSC: A better oscillation detection method, extracts both sustained and transient rhythms from rat hippocampal recordings. <i>Hippocampus</i> , 2012, 22, 1417-1428.	1.9	63
20	Extrinsic modulation of theta field activity in the entorhinal cortex of the anesthetized rat. <i>Hippocampus</i> , 1994, 4, 37-51.	1.9	62
21	Neurosilence: Profound Suppression of Neural Activity following Intracerebral Administration of the Protein Synthesis Inhibitor Anisomycin. <i>Journal of Neuroscience</i> , 2012, 32, 2377-2387.	3.6	59
22	Computational Modeling of Entorhinal Cortex. <i>Annals of the New York Academy of Sciences</i> , 2000, 911, 418-446.	3.8	54
23	Breathing and brain state: Urethane anesthesia as a model for natural sleep. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 324-332.	1.6	53
24	A Comparison of Sleeplike Slow Oscillations in the Hippocampus Under Ketamine and Urethane Anesthesia. <i>Journal of Neurophysiology</i> , 2010, 104, 932-939.	1.8	49
25	The Reuniens Nucleus of the Thalamus Has an Essential Role in Coordinating Slow-Wave Activity between Neocortex and Hippocampus. <i>ENeuro</i> , 2019, 6, ENEURO.0365-19.2019.	1.9	45
26	Slow Periodic Events and Their Transition to Gamma Oscillations in the Entorhinal Cortex of the Isolated Guinea Pig Brain. <i>Journal of Neurophysiology</i> , 2003, 90, 39-46.	1.8	43
27	Median Raphe Stimulation Disrupts Hippocampal Theta Via Rapid Inhibition and State-Dependent Phase Reset of Theta-Related Neural Circuitry. <i>Journal of Neurophysiology</i> , 2008, 99, 3009-3026.	1.8	42
28	Inhibitory synaptic plasticity regulates pyramidal neuron spiking in the rodent hippocampus. <i>Neuroscience</i> , 2008, 155, 64-75.	2.3	40
29	Heat Synchrony: Inter- and Independence of Body-Temperature Fluctuations and Brain-State Alternations in Urethane-Anesthetized Rats. <i>Journal of Neurophysiology</i> , 2009, 102, 1647-1656.	1.8	36
30	A critical test of the hippocampal theta model of anxiolytic drug action. <i>Neuropharmacology</i> , 2012, 62, 155-160.	4.1	36
31	Rhythmic Constraints on Hippocampal Processing: State and Phase-Related Fluctuations of Synaptic Excitability During Theta and the Slow Oscillation. <i>Journal of Neurophysiology</i> , 2008, 99, 888-899.	1.8	34
32	New waves: Rhythmic electrical field stimulation systematically alters spontaneous slow dynamics across mouse neocortex. <i>NeuroImage</i> , 2018, 174, 328-339.	4.2	31
33	ZIP It: Neural Silencing Is an Additional Effect of the PKM-Zeta Inhibitor Zeta-Inhibitory Peptide. <i>Journal of Neuroscience</i> , 2016, 36, 6193-6198.	3.6	28
34	Slow Oscillation State Facilitates Epileptiform Events in the Hippocampus. <i>Journal of Neurophysiology</i> , 2009, 102, 1880-1889.	1.8	27
35	Lack of Respiratory Coupling with Neocortical and Hippocampal Slow Oscillations. <i>Journal of Neuroscience</i> , 2014, 34, 3937-3946.	3.6	26
36	Seizure Activity Occurs in the Collagenase but not the Blood Infusion Model of Striatal Hemorrhagic Stroke in Rats. <i>Translational Stroke Research</i> , 2015, 6, 29-38.	4.2	26

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37	Ups and downs in the hippocampus: The influence of oscillatory sleep states on "neuroplasticity" at different time scales. <i>Behavioural Brain Research</i> , 2010, 214, 35-41.	2.2	25
38	Differential effects of L- and D-lactate on memory encoding and consolidation: Potential role of HCAR1 signaling. <i>Neurobiology of Learning and Memory</i> , 2020, 168, 107151.	1.9	25
39	Optogenetic excitation of preBötzing complex neurons potently drives inspiratory activity <i>in vivo</i> . <i>Journal of Physiology</i> , 2015, 593, 3673-3692.	2.9	24
40	Animal models of human amnesia and dementia: Hippocampal and amygdala ablation compared with serotonergic and cholinergic blockade in the rat. <i>Behavioural Brain Research</i> , 1990, 41, 215-227.	2.2	21
41	Effects of serotonin on the intrinsic membrane properties of layer II medial entorhinal cortex neurons. <i>Hippocampus</i> , 2007, 17, 114-129.	1.9	21
42	FG7142, yohimbine, and β^2 CCE produce anxiogenic-like effects in the elevated plus-maze but do not affect brainstem activated hippocampal theta. <i>Neuropharmacology</i> , 2013, 75, 47-52.	4.1	21
43	Immunohistochemical characterization of substance P receptor (NK1R)-expressing interneurons in the entorhinal cortex. <i>Journal of Comparative Neurology</i> , 2007, 502, 427-441.	1.6	19
44	Cognitive Enhancement in Infants Associated with Increased Maternal Fruit Intake During Pregnancy: Results from a Birth Cohort Study with Validation in an Animal Model. <i>EBioMedicine</i> , 2016, 8, 331-340.	6.1	19
45	Telencephalic Input to the Pretectum of Pigeons: An Electrophysiological and Pharmacological Inactivation Study. <i>Journal of Neurophysiology</i> , 2004, 91, 274-285.	1.8	18
46	Intrahippocampal infusion of the h blocker ZD7288 slows evoked theta rhythm and produces anxiolytic-like effects in the elevated plus maze. <i>Hippocampus</i> , 2013, 23, 278-286.	1.9	17
47	Differential Induction of Long-Term Potentiation in the Horizontal versus Columnar Superficial Connections to Layer II Cells of the Entorhinal Cortex. <i>Neural Plasticity</i> , 2008, 2008, 1-12.	2.2	16
48	Stimulating forebrain communications: Slow sinusoidal electric fields over frontal cortices dynamically modulate hippocampal activity and cortico-hippocampal interplay during slow-wave states. <i>NeuroImage</i> , 2016, 133, 189-206.	4.2	16
49	In vivo assessment of mechanisms underlying the neurovascular basis of postictal amnesia. <i>Scientific Reports</i> , 2020, 10, 14992.	3.3	16
50	Changes in hippocampal excitatory synaptic transmission during cholinergically induced theta and slow oscillation states. <i>Hippocampus</i> , 2010, 20, 279-292.	1.9	15
51	Intrahippocampal Anisomycin Impairs Spatial Performance on the Morris Water Maze. <i>Journal of Neuroscience</i> , 2015, 35, 11118-11124.	3.6	15
52	Short-Duration Epileptic Discharges Show a Distinct Phase Preference During Ongoing Hippocampal Slow Oscillations. <i>Journal of Neurophysiology</i> , 2010, 104, 2194-2202.	1.8	14
53	Spontaneous and electrically modulated spatiotemporal dynamics of the neocortical slow oscillation and associated local fast activity. <i>NeuroImage</i> , 2013, 83, 782-794.	4.2	13
54	ANI inactivation: Unconditioned anxiolytic effects of anisomycin in the ventral hippocampus. <i>Hippocampus</i> , 2014, 24, 1308-1316.	1.9	13

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55	The collagenase model of intracerebral hemorrhage in awake, freely moving animals: The effects of isoflurane. <i>Brain Research</i> , 2020, 1728, 146593.	2.2	13
56	Postnatal development of persistent inward currents in rat XII motoneurons and their modulation by serotonin, muscarine and noradrenaline. <i>Journal of Physiology</i> , 2019, 597, 3183-3201.	2.9	12
57	Long-term stability of physiological signals within fluctuations of brain state under urethane anesthesia. <i>PLoS ONE</i> , 2021, 16, e0258939.	2.5	12
58	Enhancement of temporal and spatial synchronization of entorhinal gamma activity by phase reset. <i>Hippocampus</i> , 2002, 12, 447-456.	1.9	10
59	A biophysical simulation of intrinsic and network properties of entorhinal cortex. <i>Neurocomputing</i> , 1999, 26-27, 375-380.	5.9	9
60	Ventral hippocampal histamine increases the frequency of evoked theta rhythm but produces anxiolytic-like effects in the elevated plus maze. <i>Neuropharmacology</i> , 2016, 106, 146-155.	4.1	8
61	Prefrontal-Hippocampal Pathways Through the Nucleus Reunions Are Functionally Biased by Brain State. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 804872.	1.7	8
62	Prolonged Localized Mild Hypothermia Does Not Affect Seizure Activity After Intracerebral Hemorrhage in Rats. <i>Therapeutic Hypothermia and Temperature Management</i> , 2016, 6, 40-47.	0.9	7
63	Electrophysiological correlates of hyperoxia during resting state EEG in awake human subjects. <i>Psychophysiology</i> , 2019, 56, e13401.	2.4	7
64	A Comparison of Brain-State Dynamics across Common Anesthetic Agents in Male Sprague-Dawley Rats. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3608.	4.1	6
65	Rats' use of geometric, featural and orientation cues to locate a hidden goal. <i>Behavioural Processes</i> , 2009, 82, 327-334.	1.1	4
66	Hyperoxia enhances slow-wave forebrain states in urethane-anesthetized and naturally sleeping rats. <i>Journal of Neurophysiology</i> , 2018, 120, 1505-1515.	1.8	3
67	Neurobiological Parallels, Overlaps, and Divergences of Sleep and Anesthesia. <i>Handbook of Behavioral Neuroscience</i> , 2019, , 223-236.	0.7	3
68	Membrane Resonance in Pyramidal and GABAergic Neurons of the Mouse Perirhinal Cortex. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 703407.	3.7	3
69	Tonic excitation of nucleus reuniens decreases prefrontal-hippocampal coordination during slow-wave states. <i>Hippocampus</i> , 2022, 32, 466-477.	1.9	2
70	Hippocampal and lateral entorhinal cortex physiological activity during trace conditioning under urethane anesthesia. <i>Journal of Neurophysiology</i> , 2020, 124, 781-789.	1.8	1
71	Prenatal fruit juice exposure enhances memory consolidation in male post-weanling Sprague-Dawley rats. <i>PLoS ONE</i> , 2020, 15, e0227938.	2.5	1
72	A jolt to the field: a self-generating and self-propagating ephaptically mediated slow spontaneous network activity pattern in the hippocampus. <i>Journal of Physiology</i> , 2019, 597, 3-3.	2.9	0

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73	State dependent modulation of breathing in rats during urethane anesthesia. FASEB Journal, 2012, 26, 1147.9.	0.5	0