

Thomas E Dick

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

1,912
citations

26
h-index

43
g-index

70
ext. papers

2,143
ext. citations

3.2
avg, IF

4.74
L-index

#	Paper	IF	Citations
67	Pontine mechanisms of respiratory control. <i>Comprehensive Physiology</i> , 2012 , 2, 2443-69	7.7	152
66	Modeling the ponto-medullary respiratory network. <i>Respiratory Physiology and Neurobiology</i> , 2004 , 143, 307-19	2.8	125
65	Cardiovascular alterations by chronic intermittent hypoxia: importance of carotid body chemoreflexes. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2005 , 32, 447-9	3	116
64	Acute intermittent hypoxia increases both phrenic and sympathetic nerve activities in the rat. <i>Experimental Physiology</i> , 2007 , 92, 87-97	2.4	107
63	Pontine respiratory neurons in anesthetized cats. <i>Brain Research</i> , 1994 , 636, 259-69	3.7	102
62	Systemic, cellular and molecular analysis of chemoreflex-mediated sympathoexcitation by chronic intermittent hypoxia. <i>Experimental Physiology</i> , 2007 , 92, 39-44	2.4	81
61	Ventrolateral pons mediates short-term depression of respiratory frequency after brief hypoxia. <i>Respiration Physiology</i> , 2000 , 121, 87-100		74
60	Cardiorespiratory coupling: common rhythms in cardiac, sympathetic, and respiratory activities. <i>Progress in Brain Research</i> , 2014 , 209, 191-205	2.9	71
59	Effect of baroreceptor stimulation on the respiratory pattern: insights into respiratory-sympathetic interactions. <i>Respiratory Physiology and Neurobiology</i> , 2010 , 174, 135-45	2.8	67
58	Functional connectivity in the pontomedullary respiratory network. <i>Journal of Neurophysiology</i> , 2008 , 100, 1749-69	3.2	66
57	Learning to breathe: control of the inspiratory-expiratory phase transition shifts from sensory- to central-dominated during postnatal development in rats. <i>Journal of Physiology</i> , 2009 , 587, 4931-48	3.9	63
56	Pontomedullary transection attenuates central respiratory modulation of sympathetic discharge, heart rate and the baroreceptor reflex in the in situ rat preparation. <i>Experimental Physiology</i> , 2008 , 93, 803-16	2.4	61
55	Prolongation in expiration evoked from ventrolateral pons of adult rats. <i>Journal of Applied Physiology</i> , 1997 , 82, 377-81	3.7	59
54	Entrainment pattern between sympathetic and phrenic nerve activities in the Sprague-Dawley rat: hypoxia-evoked sympathetic activity during expiration. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 286, R1121-8	3.2	56
53	Cardio-respiratory coupling depends on the pons. <i>Respiratory Physiology and Neurobiology</i> , 2009 , 168, 76-85	2.8	45
52	A method for analyzing temporal patterns of variability of a time series from Poincare plots. <i>Journal of Applied Physiology</i> , 2012 , 113, 297-306	3.7	45
51	Control of breathing by interacting pontine and pulmonary feedback loops. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 16	3.5	37

50	Linking Inflammation, Cardiorespiratory Variability, and Neural Control in Acute Inflammation via Computational Modeling. <i>Frontiers in Physiology</i> , 2012 , 3, 222	4.6	35
49	Quantitative analysis of cardiovascular modulation in respiratory neural activity. <i>Journal of Physiology</i> , 2004 , 556, 959-70	3.9	35
48	Pontine respiratory-modulated activity before and after vagotomy in decerebrate cats. <i>Journal of Physiology</i> , 2008 , 586, 4265-82	3.9	33
47	Increased cardio-respiratory coupling evoked by slow deep breathing can persist in normal humans. <i>Respiratory Physiology and Neurobiology</i> , 2014 , 204, 99-111	2.8	32
46	Klüber-Fuse nuclei regulate respiratory rhythm variability via a gain-control mechanism. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017 , 312, R172-R188	3.2	29
45	Diaphragm activation via high frequency spinal cord stimulation in a rodent model of spinal cord injury. <i>Experimental Neurology</i> , 2013 , 247, 689-93	5.7	29
44	Increasing Local Excitability of Brainstem Respiratory Nuclei Reveals a Distributed Network Underlying Respiratory Motor Pattern Formation. <i>Frontiers in Physiology</i> , 2019 , 10, 887	4.6	28
43	Lung and brainstem cytokine levels are associated with breathing pattern changes in a rodent model of acute lung injury. <i>Respiratory Physiology and Neurobiology</i> , 2011 , 178, 429-38	2.8	28
42	Effects of baroreceptor activation on respiratory variability in rat. <i>Respiratory Physiology and Neurobiology</i> , 2009 , 166, 80-6	2.8	27
41	Arterial pulse modulated activity is expressed in respiratory neural output. <i>Journal of Applied Physiology</i> , 2005 , 99, 691-8	3.7	25
40	Pontine-ventral respiratory column interactions through raphe circuits detected using multi-array spike train recordings. <i>Journal of Neurophysiology</i> , 2009 , 101, 2943-60	3.2	24
39	Physiological and pathophysiological interactions between the respiratory central pattern generator and the sympathetic nervous system. <i>Progress in Brain Research</i> , 2014 , 212, 1-23	2.9	23
38	Blockade of dorsolateral pontine 5HT1A receptors destabilizes the respiratory rhythm in C57BL6/J wild-type mice. <i>Respiratory Physiology and Neurobiology</i> , 2016 , 226, 110-4	2.8	18
37	Learning to breathe: habituation of Hering-Breuer inflation reflex emerges with postnatal brainstem maturation. <i>Respiratory Physiology and Neurobiology</i> , 2014 , 195, 44-9	2.8	18
36	Quantifying interactions between real oscillators with information theory and phase models: application to cardiorespiratory coupling. <i>Physical Review E</i> , 2013 , 87, 022709	2.4	17
35	Respiratory responses to tracheobronchial stimulation during sleep and wakefulness in the adult cat. <i>Sleep</i> , 1996 , 19, 472-8	1.1	17
34	Volumetric mapping of the functional neuroanatomy of the respiratory network in the perfused brainstem preparation of rats. <i>Journal of Physiology</i> , 2020 , 598, 2061-2079	3.9	16
33	A role for NMDA receptors in posthypoxic frequency decline in the rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 274, R1546-55	3.2	16

32	Effects of ion channel noise on neural circuits: an application to the respiratory pattern generator to investigate breathing variability. <i>Journal of Neurophysiology</i> , 2017 , 117, 230-242	3.2	13
31	Swallowing in sleep and wakefulness in adult cats. <i>Sleep</i> , 1995 , 18, 325-9	1.1	13
30	Cardio-ventilatory coupling in young healthy resting subjects. <i>Journal of Applied Physiology</i> , 2012 , 112, 1248-57	3.7	12
29	Decreased Hering-Breuer input-output entrainment in a mouse model of Rett syndrome. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 42	3.5	12
28	Functional connectivity in raphéontomedullary circuits supports active suppression of breathing during hypocapnic apnea. <i>Journal of Neurophysiology</i> , 2015 , 114, 2162-86	3.2	11
27	Brainstem inflammation modulates the ventilatory pattern and its variability after acute lung injury in rodents. <i>Journal of Physiology</i> , 2020 , 598, 2791-2811	3.9	10
26	Lung-injury depresses glutamatergic synaptic transmission in the nucleus tractus solitarii via discrete age-dependent mechanisms in neonatal rats. <i>Brain, Behavior, and Immunity</i> , 2018 , 70, 398-422	16.6	10
25	Pontine GABAergic pathways: role and plasticity in the hypoxic ventilatory response. <i>Respiratory Physiology and Neurobiology</i> , 2004 , 143, 141-53	2.8	9
24	Adaptation to hypobaric hypoxia involves GABA A receptors in the pons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R549-57	3.2	8
23	Respiratory modulation of sympathetic activity is attenuated in adult rats conditioned with chronic hypobaric hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2015 , 206, 53-60	2.8	6
22	C57BL/6J mouse apolipoprotein A2 gene is deterministic for apnea. <i>Respiratory Physiology and Neurobiology</i> , 2017 , 235, 88-94	2.8	5
21	Peripheral-to-central immune communication at the area postrema glial-barrier following bleomycin-induced sterile lung injury in adult rats. <i>Brain, Behavior, and Immunity</i> , 2020 , 87, 610-633	16.6	5
20	Ventilatory pattern variability as a biometric for severity of acute lung injury in rats. <i>Respiratory Physiology and Neurobiology</i> , 2019 , 265, 161-171	2.8	4
19	Recurrent Connections between the Pontine Respiratory Group and Ventrolateral Medullary Respiratory Column through Parallel Functional Pathways. <i>FASEB Journal</i> , 2006 , 20, A370	0.9	3
18	Traube-Hering waves are formed by interaction of respiratory sinus arrhythmia and pulse pressure modulation in healthy men. <i>Journal of Applied Physiology</i> , 2020 , 129, 1193-1202	3.7	2
17	Intrinsic Circuits of the Pontine Respiratory Group Inferred from Correlational Analysis of Large Scale Parallel Recordings. <i>FASEB Journal</i> , 2006 , 20, A370	0.9	2
16	Heartbeats entrain breathing via baroreceptor-mediated modulation of expiratory activity. <i>Experimental Physiology</i> , 2021 , 106, 1181-1195	2.4	2
15	Bifurcation of the respiratory response to lung inflation in anesthetized dogs. <i>Respiratory Physiology and Neurobiology</i> , 2017 , 244, 26-31	2.8	1

14	L-plotting: A method for visual analysis of physiological experimental and modeling multi-component data. <i>Neurocomputing</i> , 2010 , 74, 328-336	5.4	1
13	Response to: The post-inspiratory complex (PiCo), what is the evidence?. <i>Journal of Physiology</i> , 2021 , 599, 361-362	3.9	1
12	Ponto-medullary transection attenuates sympathorespiratory coupling and eliminates cardiac sinus arrhythmia in the in situ rat. <i>FASEB Journal</i> , 2008 , 22, 739.6	0.9	0
11	Periodicity: A Characteristic of Heart Rate Variability Modified by the Type of Mechanical Ventilation After Acute Lung Injury. <i>Frontiers in Physiology</i> , 2018 , 9, 772	4.6	
10	Respiratory modulation of thoracic sympathetic nerve activity increased following brief hypoxia in the rat in situ preparation. <i>FASEB Journal</i> , 2006 , 20, LB36	0.9	
9	Phase synchronization as a flexible definition of the respiratory pattern: Application to pontine-dependent control of the respiratory pattern. <i>FASEB Journal</i> , 2018 , 32, 915.2	0.9	
8	Chemoreflex Responses to LPS Exposure During a Critical Window of Development in the in situ Arterially Perfused Working Heart Brainstem Preparation. <i>FASEB Journal</i> , 2018 , 32, 742.8	0.9	
7	Preliminary Phenotypic Cluster Analysis of Cardiorespiratory Modulated Neuronal Discharge Patterns with Dynamic Visualizations. <i>FASEB Journal</i> , 2018 , 32, 893.5	0.9	
6	Modulation of mRNA Expression in Peripheral Tissue in a Rodent E. coli Sepsis Model. <i>FASEB Journal</i> , 2019 , 33, 859.5	0.9	
5	Synchrony is altered in the respiratory pattern generator following acute hypoxic challenge. <i>FASEB Journal</i> , 2010 , 24, 1042.1	0.9	
4	Evidence for distributed processing during hypoxic stimulation by the brainstem cardiorespiratory network. <i>FASEB Journal</i> , 2010 , 24, 1042.5	0.9	
3	Protection from hypoxic conditioning in juvenile rats may be related to age or conditioning duration. <i>FASEB Journal</i> , 2011 , 25, 1077.1	0.9	
2	Respiratory-Sympathetic Interactions and Central Baroreflex Pathways: Insights from Computational Modeling. <i>FASEB Journal</i> , 2011 , 25, 1076.1	0.9	
1	Cardio-respiratory Coupling is Negligible in a Rodent Septic-Model. <i>FASEB Journal</i> , 2012 , 26, 1148.5	0.9	