

David M Katz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4120069/publications.pdf>

Version: 2024-02-01

45
papers

4,342
citations

136885

32
h-index

243529

44
g-index

45
all docs

45
docs citations

45
times ranked

3786
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular Mechanisms Regulating Activity-Dependent Release of Native Brain-Derived Neurotrophic Factor from Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2002, 22, 10399-10407.	1.7	347
2	Mice Lacking Brain-Derived Neurotrophic Factor Exhibit Visceral Sensory Neuron Losses Distinct from Mice Lacking NT4 and Display a Severe Developmental Deficit in Control of Breathing. <i>Journal of Neuroscience</i> , 1996, 16, 5361-5371.	1.7	342
3	Activity-Dependent Release of Endogenous Brain-Derived Neurotrophic Factor from Primary Sensory Neurons Detected by ELISA <i>In Situ</i> . <i>Journal of Neuroscience</i> , 2000, 20, 7417-7423.	1.7	312
4	Brain-Derived Neurotrophic Factor Expression and Respiratory Function Improve after Ampakine Treatment in a Mouse Model of Rett Syndrome. <i>Journal of Neuroscience</i> , 2007, 27, 10912-10917.	1.7	225
5	A suppressor screen in <i>Mecp2</i> mutant mice implicates cholesterol metabolism in Rett syndrome. <i>Nature Genetics</i> , 2013, 45, 1013-1020.	9.4	190
6	Preclinical research in Rett syndrome: setting the foundation for translational success. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 733-745.	1.2	183
7	Exogenous Brain-Derived Neurotrophic Factor Rescues Synaptic Dysfunction in <i>Mecp2</i> -Null Mice. <i>Journal of Neuroscience</i> , 2010, 30, 5303-5310.	1.7	165
8	Physiological Patterns of Electrical Stimulation Can Induce Neuronal Gene Expression by Activating N-Type Calcium Channels. <i>Journal of Neuroscience</i> , 2001, 21, 2571-2579.	1.7	161
9	Breathing disorders in Rett syndrome: Progressive neurochemical dysfunction in the respiratory network after birth. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 101-108.	0.7	155
10	Dysregulation of Brain-Derived Neurotrophic Factor Expression and Neurosecretory Function in <i>Mecp2</i> Null Mice. <i>Journal of Neuroscience</i> , 2006, 26, 10911-10915.	1.7	150
11	Brain-Derived Neurotrophic Factor and Glial Cell Line-Derived Neurotrophic Factor Are Required Simultaneously for Survival of Dopaminergic Primary Sensory Neurons <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2001, 21, 581-589.	1.7	145
12	Brain Activity Mapping in <i>Mecp2</i> Mutant Mice Reveals Functional Deficits in Forebrain Circuits, Including Key Nodes in the Default Mode Network, that are Reversed with Ketamine Treatment. <i>Journal of Neuroscience</i> , 2012, 32, 13860-13872.	1.7	136
13	Rett Syndrome: Crossing the Threshold to Clinical Translation. <i>Trends in Neurosciences</i> , 2016, 39, 100-113.	4.2	135
14	A TrkB Small Molecule Partial Agonist Rescues TrkB Phosphorylation Deficits and Improves Respiratory Function in a Mouse Model of Rett Syndrome. <i>Journal of Neuroscience</i> , 2012, 32, 1803-1810.	1.7	134
15	BDNF Is a Target-Derived Survival Factor for Arterial Baroreceptor and Chemoafferent Primary Sensory Neurons. <i>Journal of Neuroscience</i> , 1999, 19, 2131-2142.	1.7	130
16	Chemoafferent degeneration and carotid body hypoplasia following chronic hyperoxia in newborn rats. <i>Journal of Physiology</i> , 1998, 509, 519-526.	1.3	111
17	Pathophysiology of Locus Ceruleus Neurons in a Mouse Model of Rett Syndrome. <i>Journal of Neuroscience</i> , 2009, 29, 12187-12195.	1.7	110
18	Overexpression of nerve growth factor in transgenic mice induces novel sympathetic projections to primary sensory neurons. <i>Journal of Comparative Neurology</i> , 1994, 349, 464-474.	0.9	90

#	ARTICLE	IF	CITATIONS
19	Brain-Derived Neurotrophic Factor Acutely Inhibits AMPA-Mediated Currents in Developing Sensory Relay Neurons. <i>Journal of Neuroscience</i> , 2000, 20, 1904-1911.	1.7	87
20	Expression of Functional Tyrosine Kinase B Receptors by Rhythmically Active Respiratory Neurons in the Pre-Bötzing Complex of Neonatal Mice. <i>Journal of Neuroscience</i> , 2003, 23, 7685-7689.	1.7	87
21	A Role for L-Type Calcium Channels in Developmental Regulation of Transmitter Phenotype in Primary Sensory Neurons. <i>Journal of Neuroscience</i> , 1998, 18, 1047-1055.	1.7	84
22	Brain-derived neurotrophic factor is required for normal development of the central respiratory rhythm in mice. <i>Journal of Physiology</i> , 1998, 510, 527-533.	1.3	83
23	Synaptic microcircuit dysfunction in genetic models of neurodevelopmental disorders: focus on <i>Mecp2</i> and <i>Met</i> . <i>Current Opinion in Neurobiology</i> , 2011, 21, 827-833.	2.0	75
24	BDNF Supports Mammalian Chemoafferent Neurons in Vitro and Following Peripheral Target Removal in Vivo. <i>Developmental Biology</i> , 1994, 166, 801-811.	0.9	69
25	Endogenous Brain-Derived Neurotrophic Factor in the Nucleus Tractus Solitarius Tonicly Regulates Synaptic and Autonomic Function. <i>Journal of Neuroscience</i> , 2011, 31, 12318-12329.	1.7	67
26	Breathing dysfunction in Rett syndrome: Understanding epigenetic regulation of the respiratory network. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 55-63.	0.7	61
27	Cranial sensory neuron development in the absence of brain-derived neurotrophic factor in <i>BDNF/Bax</i> double null mice. <i>Developmental Biology</i> , 2004, 275, 34-43.	0.9	55
28	A BDNF loop-domain mimetic acutely reverses spontaneous apneas and respiratory abnormalities during behavioral arousal in a mouse model of Rett syndrome. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 1047-1055.	1.2	50
29	Mechanisms of Functional Hypoconnectivity in the Medial Prefrontal Cortex of <i>Mecp2</i> Null Mice. <i>Cerebral Cortex</i> , 2016, 26, 1938-1956.	1.6	47
30	Developmental regulation of tyrosine hydroxylase expression in primary sensory neurons of the rat. <i>Developmental Biology</i> , 1990, 137, 233-242.	0.9	41
31	Expression of <i>Phox2</i> Transcription Factors and Induction of the Dopaminergic Phenotype in Primary Sensory Neurons. <i>Molecular and Cellular Neurosciences</i> , 2002, 20, 447-457.	1.0	37
32	Regulation of respiratory neuron development by neurotrophic and transcriptional signaling mechanisms. <i>Respiratory Physiology and Neurobiology</i> , 2005, 149, 99-109.	0.7	37
33	Brain-derived neurotrophic factor enhances fetal respiratory rhythm frequency in the mouse pre-Bötzing complex <i>in vitro</i> . <i>European Journal of Neuroscience</i> , 2008, 28, 510-520.	1.2	31
34	Depolarizing stimuli induce high levels of dopamine synthesis in fetal rat sensory neurons. <i>NeuroReport</i> , 1995, 7, 233-237.	0.6	31
35	Transient expression of somatostatin peptide is a widespread feature of developing sensory and sympathetic neurons in the embryonic rat. <i>Journal of Neurobiology</i> , 1992, 23, 855-870.	3.7	27
36	Neuronal growth factors and development of respiratory control. <i>Respiratory Physiology and Neurobiology</i> , 2003, 135, 155-165.	0.7	24

#	ARTICLE	IF	CITATIONS
37	Development of pontine noradrenergic A5 neurons requires brain-derived neurotrophic factor. <i>European Journal of Neuroscience</i> , 2005, 21, 2019-2023.	1.2	24
38	N-Methyl-D-Aspartate Receptors, Ketamine, and Rett Syndrome: Something Special on the Road to Treatments?. <i>Biological Psychiatry</i> , 2016, 79, 710-712.	0.7	22
39	Activation of the Medial Prefrontal Cortex Reverses Cognitive and Respiratory Symptoms in a Mouse Model of Rett Syndrome. <i>ENeuro</i> , 2017, 4, ENEURO.0277-17.2017.	0.9	19
40	Decreased Hering-Breuer Input-Output Entrainment in a Mouse Model of Rett Syndrome. <i>Frontiers in Neural Circuits</i> , 2013, 7, 42.	1.4	14
41	Urinary hydroxyproline levels in an aged population a study of non-osteoporotic and osteoporotic patients. <i>Arthritis and Rheumatism</i> , 1965, 8, 61-68.	6.7	13
42	Neurotrophic Factors in Development and Regulation of Respiratory Control. , 2013, 3, 1125-34.		11
43	Restoration of motor learning in a mouse model of Rett syndrome following long-term treatment with a novel small-molecule activator of TrkB. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	1.2	9
44	Lectin binding distinguishes between neuroendocrine and neuronal derivatives of the sympathoadrenal neural crest. <i>Journal of Neurobiology</i> , 1995, 26, 241-252.	3.7	8
45	Enhanced dense core granule function and adrenal hypersecretion in a mouse model of Rett syndrome. <i>European Journal of Neuroscience</i> , 2009, 30, 602-610.	1.2	8