David M Katz

List of Publications by Year
in descending order

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	Restoration of motor learning in a mouse model of Rett syndrome following long-term treatment with a novel small-molecule activator of TrkB. DMM Disease Models and Mechanisms, 2020, 13, .	1.2	9
2	Activation of the Medial Prefrontal Cortex Reverses Cognitive and Respiratory Symptoms in a Mouse Model of Rett Syndrome. ENeuro, 2017, 4, ENEURO.0277-17.2017.	0.9	19
3	N-Methyl-D-Aspartate Receptors, Ketamine, and Rett Syndrome: Something Special on the Road to Treatments?. Biological Psychiatry, 2016, 79, 710-712.	0.7	22
4	Mechanisms of Functional Hypoconnectivity in the Medial Prefrontal Cortex ofMecp2Null Mice. Cerebral Cortex, 2016, 26, 1938-1956.	1.6	47
5	Rett Syndrome: Crossing the Threshold to Clinical Translation. Trends in Neurosciences, 2016, 39, 100-113.	4.2	135
6	A BDNF loop-domain mimetic acutely reverses spontaneous apneas and respiratory abnormalities during behavioral arousal in a mouse model of Rett syndrome. DMM Disease Models and Mechanisms, 2014, 7, 1047-1055.	1.2	50
7	Neurotrophic Factors in Development and Regulation of Respiratory Control. , 2013, 3, 1125-34.		11
8	A suppressor screen in Mecp2 mutant mice implicates cholesterol metabolism in Rett syndrome. Nature Genetics, 2013, 45, 1013-1020.	9.4	190
9	Decreased Heringâ€“Breuer Input-Output Entrainment in a Mouse Model of Rett Syndrome. Frontiers in Neural Circuits, 2013, 7, 42.	1.4	14
10	A TrkB Small Molecule Partial Agonist Rescues TrkB Phosphorylation Deficits and Improves Respiratory Function in a Mouse Model of Rett Syndrome. Journal of Neuroscience, 2012, 32, 1803-1810.	1.7	134
11	Brain Activity Mapping inMecp2Mutant Mice Reveals Functional Deficits in Forebrain Circuits, Including Key Nodes in the Default Mode Network, that are Reversed with Ketamine Treatment. Journal of Neuroscience, 2012, 32, 13860-13872.	1.7	136
12	Preclinical research in Rett syndrome: setting the foundation for translational success. DMM Disease Models and Mechanisms, 2012, 5, 733-745.	1.2	183
13	Synaptic microcircuit dysfunction in genetic models of neurodevelopmental disorders: focus on Mecp2 and Met. Current Opinion in Neurobiology, 2011, 21, 827-833.	2.0	75
14	Endogenous Brain-Derived Neurotrophic Factor in the Nucleus Tractus Solitarius Tonically Regulates Synaptic and Autonomic Function. Journal of Neuroscience, 2011, 31, 12318-12329.	1.7	67
15	Exogenous Brain-Derived Neurotrophic Factor Rescues Synaptic Dysfunction inMecp2-Null Mice. Journal of Neuroscience, 2010, 30, 5303-5310.	1.7	165
16	Pathophysiology of Locus Ceruleus Neurons in a Mouse Model of Rett Syndrome. Journal of Neuroscience, 2009, 29, 12187-12195.	1.7	110
17	Breathing disorders in Rett syndrome: Progressive neurochemical dysfunction in the respiratory network after birth. Respiratory Physiology and Neurobiology, 2009, 168, 101-108.	0.7	155
18	Enhanced dense core granule function and adrenal hypersecretion in a mouse model of Rett syndrome. European Journal of Neuroscience, 2009, 30, 602-610.	1.2	8

#	Article	IF	Citations
19	Brainâ€derived neurotrophic factor enhances fetal respiratory rhythm frequency in the mouse preBÃ¶tzinger complex in vitro. European Journal of Neuroscience, 2008, 28, 510-520.	1.2	31
20	Breathing dysfunction in Rett syndrome: Understanding epigenetic regulation of the respiratory network. Respiratory Physiology and Neurobiology, 2008, 164, 55-63.	0.7	61
21	Brain-Derived Neurotrophic Factor Expression and Respiratory Function Improve after Ampakine Treatment in a Mouse Model of Rett Syndrome. Journal of Neuroscience, 2007, 27, 10912-10917.	1.7	225
22	Dysregulation of Brain-Derived Neurotrophic Factor Expression and Neurosecretory Function in Mecp2 Null Mice. Journal of Neuroscience, 2006, 26, 10911-10915.	1.7	150
23	Development of pontine noradrenergic A5 neurons requires brainâ€derived neurotrophic factor. European Journal of Neuroscience, 2005, 21, 2019-2023.	1.2	24
24	Regulation of respiratory neuron development by neurotrophic and transcriptional signaling mechanisms. Respiratory Physiology and Neurobiology, 2005, 149, 99-109.	0.7	37
25	Cranial sensory neuron development in the absence of brain-derived neurotrophic factor in BDNF/Bax double null mice. Developmental Biology, 2004, 275, 34-43.	0.9	55
26	Neuronal growth factors and development of respiratory control. Respiratory Physiology and Neurobiology, 2003, 135, 155-165.	0.7	24
27	Expression of Functional Tyrosine Kinase B Receptors by Rhythmically Active Respiratory Neurons in the Pre-BÃ¶tzinger Complex of Neonatal Mice. Journal of Neuroscience, 2003, 23, 7685-7689.	1.7	87
28	Expression of Phox2 Transcription Factors and Induction of the Dopaminergic Phenotype in Primary Sensory Neurons. Molecular and Cellular Neurosciences, 2002, 20, 447-457.	1.0	37
29	Cellular Mechanisms Regulating Activity-Dependent Release of Native Brain-Derived Neurotrophic Factor from Hippocampal Neurons. Journal of Neuroscience, 2002, 22, 10399-10407.	1.7	347
30	Brain-Derived Neurotrophic Factor and Glial Cell Line-Derived Neurotrophic Factor Are Required Simultaneously for Survival of Dopaminergic Primary Sensory NeuronsIn Vivo. Journal of Neuroscience, 2001, 21, 581-589.	1.7	145
31	Physiological Patterns of Electrical Stimulation Can Induce Neuronal Gene Expression by Activating N-Type Calcium Channels. Journal of Neuroscience, 2001, 21, 2571-2579.	1.7	161
32	Brain-Derived Neurotrophic Factor Acutely Inhibits AMPA-Mediated Currents in Developing Sensory Relay Neurons. Journal of Neuroscience, 2000, 20, 1904-1911.	1.7	87
33	Activity-Dependent Release of Endogenous Brain-Derived Neurotrophic Factor from Primary Sensory Neurons Detected by ELISAIn Situ. Journal of Neuroscience, 2000, 20, 7417-7423.	1.7	312
34	BDNF Is a Target-Derived Survival Factor for Arterial Baroreceptor and Chemoafferent Primary Sensory Neurons. Journal of Neuroscience, 1999, 19, 2131-2142.	1.7	130
35	Chemoafferent degeneration and carotid body hypoplasia following chronic hyperoxia in newborn rats. Journal of Physiology, 1998, 509, 519-526.	1.3	111
36	Brain-derived neurotrophic factor is required for normal development of the central respiratory rhythm in mice. Journal of Physiology, 1998, 510, 527-533.	1.3	83

#	Article	IF	Citations
37	A Role for L-Type Calcium Channels in Developmental Regulation of Transmitter Phenotype in Primary Sensory Neurons. Journal of Neuroscience, 1998, 18, 1047-1055.	1.7	84
38	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. Journal of Neuroscience, 1996, 16, 5361-5371.	1.7	342
39	Lectin binding distinguishes between neuroendocrine and neuronal derivatives of the sympathoadrenal neural crest. Journal of Neurobiology, 1995, 26, 241-252.	3.7	8
40	Depolarizing stimuli induce high levels of dopamine synthesis in fetal rat sensory neurons. NeuroReport, 1995, 7, 233-237.	0.6	31
41	Overexpression of nerve growth factor in transgenic mice induces novel sympathetic projections to primary sensory neurons. Journal of Comparative Neurology, 1994, 349, 464-474.	0.9	90
42	BDNF Supports Mammalian Chemoafferent Neurons in Vitro and Following Peripheral Target Removal in Vivo. Developmental Biology, 1994, 166, 801-811.	0.9	69
43	Transient expression of somatostatin peptide is a widespread feature of developing sensory and sympathetic neurons in the embryonic rat. Journal of Neurobiology, 1992, 23, 855-870.	3.7	27
44	Developmental regulation of tyrosine hydroxylase expression in primary sensory neurons of the rat. Developmental Biology, 1990, 137, 233-242.	0.9	41
45	Urinary hydroxyproline levels in an aged population a study of non-osteoporotic and osteoporotic patients. Arthritis and Rheumatism, 1965, 8, 61-68.	6.7	13