Jeremy D Marks

List of Publications by Year
in descending order

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66 papers	3,620 citations	147801 31 h-index	133252 59 g-index
70 all docs	70 docs citations	70 times ranked	4023 citing authors

#	Article	IF	Citations
1	Correlates of Normal and Abnormal General Movements in Infancy and Long-Term Neurodevelopment of Preterm Infants: Insights from Functional Connectivity Studies at Term Equivalence. Journal of Clinical Medicine, 2020, 9, 834.	2.4	22
2	Tailoring Biomimetic Phosphorylcholine-Containing Block Copolymers as Membrane-Targeting Cellular Rescue Agents. Biomacromolecules, 2019, 20, 3385-3391.	5.4	11
3	Approaches to Noninvasive Respiratory Support in Preterm Infants: From CPAP to NAVA. NeoReviews, 2019, 20, e213-e221.	0.8	11
4	Poloxamer 188 decreases membrane toxicity of mutant SOD1 and ameliorates pathology observed in SOD1 mouse model for ALS. Neurobiology of Disease, 2018, 115, 115-126.	4.4	10
5	Mitochondrial mechanisms of neuronal rescue by F-68, a hydrophilic Pluronic block co-polymer, following acute substrate deprivation. Neurochemistry International, 2017, 109, 126-140.	3.8	14
6	Sumoylation of Na V 1.2 Channels Mediates the Early Response to Acute Hypoxia in Central Neurons. Biophysical Journal, 2017, 112, 183a.	0.5	0
7	Noninvasive Ventilation in the Premature Newborn â€" Is Less Always More?. New England Journal of Medicine, 2017, 377, 386-388.	27.0	3
8	White Matter Injury and General Movements in High-Risk Preterm Infants. American Journal of Neuroradiology, 2017, 38, 162-169.	2.4	32
9	Network burst activity in hippocampal neuronal cultures: the role of synaptic and intrinsic currents. Journal of Neurophysiology, 2016, 115, 3073-3089.	1.8	66
10	Secreted protein acidic and rich in cysteine (SPARC) induces lipotoxicity in neuroblastoma by regulating transport of albumin complexed with fatty acids. Oncotarget, 2016, 7, 77696-77706.	1.8	14
11	SUMOylation of NaV1.2 channels mediates the early response to acute hypoxia in central neurons. ELife, 2016, 5, .	6.0	36
12	Toward Networks from Spikes. Springer Series in Computational Neuroscience, 2015, , 277-292.	0.3	0
13	Hypoxic-Ischemic Brain Injury: Potential Therapeutic Interventions for the Future. NeoReviews, 2014, 15, e177-e186.	0.8	21
14	Peroxiredoxin-5 targeted to the mitochondrial intermembrane space attenuates hypoxia-induced reactive oxygen species signalling. Biochemical Journal, 2013, 456, 337-346.	3.7	55
15	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. Biophysical Journal, 2013, 104, 242a-243a.	0.5	0
16	Superoxide Generated at Mitochondrial Complex III Triggers Acute Responses to Hypoxia in the Pulmonary Circulation. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 424-432.	5.6	137
17	Sirtuin 3 Deficiency Does Not Augment Hypoxia-Induced Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 885-891.	2.9	25
18	The Membrane-Active Tri-Block Copolymer Pluronic F-68 Profoundly Rescues Rat Hippocampal Neurons from Oxygen-Glucose Deprivation-Induced Death through Early Inhibition of Apoptosis. Journal of Neuroscience, 2013, 33, 12287-12299.	3.6	39

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19	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. Materials Research Society Symposia Proceedings, 2012, 1480, 1.	0.1	1
20	SUMOylation Silences Heterodimeric TASK Potassium Channels Containing K2P1 Subunits in Cerebellar Granule Neurons. Science Signaling, 2012, 5, ra84.	3.6	71
21	Nature of Interactions between PEO-PPO-PEO Triblock Copolymers and Lipid Membranes: (I) Effect of Polymer Hydrophobicity on Its Ability to Protect Liposomes from Peroxidation. Biomacromolecules, 2012, 13, 2616-2623.	5.4	70
22	Development of Biocompatible Polymers for Modulating Lipid Membrane Integrity. Biophysical Journal, 2012, 102, 496a.	0.5	0
23	K2P1 Assembles with K2P3 or K2P9 to Form SUMO-Regulated Task Background Channels in Cerebellar Granule Neurons. Biophysical Journal, 2012, 102, 412a.	0.5	0
24	Mitochondrial Complex Iii Is Required For Increased Reactive Oxygen Species And Cytosolic Calcium Signaling Observed During Acute Hypoxic Pulmonary Vasoconstriction. , 2011, , .		0
25	Etomidate and propofol inhibit the neurotransmitter release machinery at different sites. Journal of Physiology, 2011, 589, 1103-1115.	2.9	43
26	Safety and efficacy of inhaled nitric oxide treatment for premature infants with respiratory distress syndrome: followâ€up evaluation at early school age. Acta Paediatrica, International Journal of Paediatrics, 2011, 100, 524-528.	1.5	10
27	Individualized Prediction of Bronchopulmonary Dysplasia Risk. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 1584-1586.	5.6	1
28	SUMO modification of cell surface Kv2.1 potassium channels regulates the activity of rat hippocampal neurons. Journal of General Physiology, 2011, 137, 441-454.	1.9	100
29	Predicting school readiness from neurodevelopmental assessments at age 2â€fyears after respiratory distress syndrome in infants born preterm. Developmental Medicine and Child Neurology, 2010, 52, 379-385.	2.1	39
30	Hypoxia Triggers Subcellular Compartmental Redox Signaling in Vascular Smooth Muscle Cells. Circulation Research, 2010, 106, 526-535.	4.5	312
31	One SUMO is sufficient to silence the dimeric potassium channel K2P1. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10743-10748.	7.1	75
32	Hypoxia Increases ROS Signaling and Cytosolic Ca²⁺ in Pulmonary Artery Smooth Muscle Cells of Mouse Lungs Slices. Antioxidants and Redox Signaling, 2010, 12, 595-602.	5.4	70
33	Effect of PEG-based Biocompatible Polymers on the Response of Lipid Vesicles under External Stimuli. Biophysical Journal, 2010, 98, 626a.	0.5	0
34	Effects of PEOâ^'PPOâ^'PEO Triblock Copolymers on Phospholipid Membrane Integrity under Osmotic Stress. Langmuir, 2010, 26, 12953-12961.	3.5	55
35	K2P1 Assembles with K2P3 or K2P9 to Form Sumo-Regulated Task Background Channels. Biophysical Journal, 2010, 98, 710a.	0.5	1
36	Risk Factors Affecting School Readiness in Premature Infants With Respiratory Distress Syndrome. Pediatrics, 2009, 124, 258-267.	2.1	59

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37	Isoflurane Inhibits the Neurotransmitter Release Machinery. Journal of Neurophysiology, 2009, 102, 1265-1273.	1.8	66
38	Effect of Poloxamer 188 on the Osmotic Response of Cell Membranes. Biophysical Journal, 2009, 96, 164a.	0.5	1
39	Regulation of Vulnerability to NMDA Excitotoxicity During Postnatal Maturation. Contemporary Clinical Neuroscience, 2009, , 3-24.	0.3	2
40	Inhaled Nitric Oxide and Neuroprotection in Preterm Infants. Clinics in Perinatology, 2008, 35, 793-807.	2.1	15
41	Platelet-activating factor-induced chloride channel activation is associated with intracellular acidosis and apoptosis of intestinal epithelial cells. American Journal of Physiology - Renal Physiology, 2008, 294, G1191-G1200.	3.4	20
42	Oxidant Stress during Simulated Ischemia Primes Cardiomyocytes for Cell Death during Reperfusion. Journal of Biological Chemistry, 2007, 282, 19133-19143.	3.4	119
43	No definitive recommendation for iNO in preterm infants. Journal of Pediatrics, 2006, 149, 146-147.	1.8	0
44	CLC-3 Channels Modulate Excitatory Synaptic Transmission in Hippocampal Neurons. Neuron, 2006, 52, 321-333.	8.1	74
45	Increases in Mitochondrial Reactive Oxygen Species Trigger Hypoxia-Induced Calcium Responses in Pulmonary Artery Smooth Muscle Cells. Circulation Research, 2006, 99, 970-978.	4.5	174
46	New variability in cerebrovascular anatomy determines severity of hippocampal injury following forebrain ischemia in the Mongolian gerbil. Brain Research, 2006, 1073-1074, 451-459.	2.2	19
47	Physiological hypoxia promotes survival of cultured cortical neurons. European Journal of Neuroscience, 2005, 22, 1319-1326.	2.6	27
48	Neurodevelopmental Outcomes of Premature Infants Treated with Inhaled Nitric Oxide. New England Journal of Medicine, 2005, 353, 23-32.	27.0	195
49	Mitochondrial Nitric Oxide Mediates Decreased Vulnerability of Hippocampal Neurons from Immature Animals to NMDA. Journal of Neuroscience, 2005, 25, 6561-6575.	3.6	51
50	FRET-based voltage probes for confocal imaging: membrane potential oscillations throughout pancreatic islets. American Journal of Physiology - Cell Physiology, 2005, 289, C224-C229.	4.6	32
51	Distinct Mechanisms of Neurodegeneration Induced by Chronic Complex I Inhibition in Dopaminergic and Non-dopaminergic Cells. Journal of Biological Chemistry, 2004, 279, 51783-51792.	3.4	63
52	Inhaled Nitric Oxide in Premature Infants with the Respiratory Distress Syndrome. New England Journal of Medicine, 2003, 349, 2099-2107.	27.0	400
53	Predictive Power of Initial Severity of Pulmonary Disease for Subsequent Development of Bronchopulmonary Dysplasia. Neonatology, 2003, 84, 31-36.	2.0	16
54	Mitochondrial Reactive Oxygen Species Trigger Calcium Increases During Hypoxia in Pulmonary Arterial Myocytes. Circulation Research, 2002, 91, 719-726.	4.5	273

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55	Tetrahydrobiopterin Scavenges Superoxide in Dopaminergic Neurons. Journal of Biological Chemistry, 2001, 276, 34402-34407.	3.4	86
56	Amphiphilic, tri-block copolymers provide potent membrane-targeted neuroprotection. FASEB Journal, 2001, 15, 1107-1109.	0.5	92
57	Amphiphilic, triâ€block copolymers provide potent, membraneâ€targeted neuroprotection. FASEB Journal, 2001, 15, 1107-1109.	0.5	18
58	The Selective Toxicity of 1-Methyl-4-phenylpyridinium to Dopaminergic Neurons: The Role of Mitochondrial Complex I and Reactive Oxygen Species Revisited. Molecular Pharmacology, 2000, 58, 271-278.	2.3	103
59	Maturation of vulnerability to excitotoxicity: intracellular mechanisms in cultured postnatal hippocampal neurons. Developmental Brain Research, 2000, 124, 101-116.	1.7	45
60	Epidemiology of Common Neurosurgical Diseases in the Neonate. Neurosurgery Clinics of North America, 1998, 9, 63-72.	1.7	13
61	Vulnerability of CA1 neurons to glutamate is developmentally regulated. Developmental Brain Research, 1996, 97, 194-206.	1.7	64
62	Cardiorespiratory Control during Sleep. Annals of the New York Academy of Sciences, 1988, 533, 368-375.	3.8	5
63	State-dependent respiratory depression elicited by stimulation of the orbital frontal cortex. Experimental Neurology, 1987, 95, 714-729.	4.1	20
64	Differential inhibition of the diaphragm and posterior cricoarytenoid muscles induced by transient hypertension across sleep states in intact cats. Experimental Neurology, 1987, 95, 730-742.	4.1	28
65	Respiratory inhibition induced by transient hypertension during sleep in unrestrained cats. Experimental Neurology, 1985, 90, 173-186.	4.1	42
66	State-dependent alteration of respiratory cycle timing by stimulation of the central nucleus of the amygdala. Brain Research, 1984, 306, 1-8.	2.2	150