

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	Inhaled Nitric Oxide in Premature Infants with the Respiratory Distress Syndrome. <i>New England Journal of Medicine</i> , 2003, 349, 2099-2107.	27.0	400
2	Hypoxia Triggers Subcellular Compartmental Redox Signaling in Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 2010, 106, 526-535.	4.5	312
3	Mitochondrial Reactive Oxygen Species Trigger Calcium Increases During Hypoxia in Pulmonary Arterial Myocytes. <i>Circulation Research</i> , 2002, 91, 719-726.	4.5	273
4	Neurodevelopmental Outcomes of Premature Infants Treated with Inhaled Nitric Oxide. <i>New England Journal of Medicine</i> , 2005, 353, 23-32.	27.0	195
5	Increases in Mitochondrial Reactive Oxygen Species Trigger Hypoxia-Induced Calcium Responses in Pulmonary Artery Smooth Muscle Cells. <i>Circulation Research</i> , 2006, 99, 970-978.	4.5	174
6	State-dependent alteration of respiratory cycle timing by stimulation of the central nucleus of the amygdala. <i>Brain Research</i> , 1984, 306, 1-8.	2.2	150
7	Superoxide Generated at Mitochondrial Complex III Triggers Acute Responses to Hypoxia in the Pulmonary Circulation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 424-432.	5.6	137
8	Oxidant Stress during Simulated Ischemia Primes Cardiomyocytes for Cell Death during Reperfusion. <i>Journal of Biological Chemistry</i> , 2007, 282, 19133-19143.	3.4	119
9	The Selective Toxicity of 1-Methyl-4-phenylpyridinium to Dopaminergic Neurons: The Role of Mitochondrial Complex I and Reactive Oxygen Species Revisited. <i>Molecular Pharmacology</i> , 2000, 58, 271-278.	2.3	103
10	SUMO modification of cell surface Kv2.1 potassium channels regulates the activity of rat hippocampal neurons. <i>Journal of General Physiology</i> , 2011, 137, 441-454.	1.9	100
11	Amphiphilic, tri-block copolymers provide potent membrane-targeted neuroprotection. <i>FASEB Journal</i> , 2001, 15, 1107-1109.	0.5	92
12	Tetrahydrobiopterin Scavenges Superoxide in Dopaminergic Neurons. <i>Journal of Biological Chemistry</i> , 2001, 276, 34402-34407.	3.4	86
13	One SUMO is sufficient to silence the dimeric potassium channel K2P1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10743-10748.	7.1	75
14	CLC-3 Channels Modulate Excitatory Synaptic Transmission in Hippocampal Neurons. <i>Neuron</i> , 2006, 52, 321-333.	8.1	74
15	SUMOylation Silences Heterodimeric TASK Potassium Channels Containing K2P1 Subunits in Cerebellar Granule Neurons. <i>Science Signaling</i> , 2012, 5, ra84.	3.6	71
16	Hypoxia Increases ROS Signaling and Cytosolic Ca ²⁺ in Pulmonary Artery Smooth Muscle Cells of Mouse Lungs Slices. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 595-602.	5.4	70
17	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. <i>Biomacromolecules</i> , 2012, 13, 2616-2623.	5.4	70
18	Isoflurane Inhibits the Neurotransmitter Release Machinery. <i>Journal of Neurophysiology</i> , 2009, 102, 1265-1273.	1.8	66

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19	Network burst activity in hippocampal neuronal cultures: the role of synaptic and intrinsic currents. <i>Journal of Neurophysiology</i> , 2016, 115, 3073-3089.	1.8	66
20	Vulnerability of CA1 neurons to glutamate is developmentally regulated. <i>Developmental Brain Research</i> , 1996, 97, 194-206.	1.7	64
21	Distinct Mechanisms of Neurodegeneration Induced by Chronic Complex I Inhibition in Dopaminergic and Non-dopaminergic Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 51783-51792.	3.4	63
22	Risk Factors Affecting School Readiness in Premature Infants With Respiratory Distress Syndrome. <i>Pediatrics</i> , 2009, 124, 258-267.	2.1	59
23	Effects of PEO- <i>b</i> -PPO- <i>b</i> -PEO Triblock Copolymers on Phospholipid Membrane Integrity under Osmotic Stress. <i>Langmuir</i> , 2010, 26, 12953-12961.	3.5	55
24	Peroxiredoxin-5 targeted to the mitochondrial intermembrane space attenuates hypoxia-induced reactive oxygen species signalling. <i>Biochemical Journal</i> , 2013, 456, 337-346.	3.7	55
25	Mitochondrial Nitric Oxide Mediates Decreased Vulnerability of Hippocampal Neurons from Immature Animals to NMDA. <i>Journal of Neuroscience</i> , 2005, 25, 6561-6575.	3.6	51
26	Maturation of vulnerability to excitotoxicity: intracellular mechanisms in cultured postnatal hippocampal neurons. <i>Developmental Brain Research</i> , 2000, 124, 101-116.	1.7	45
27	Etomidate and propofol inhibit the neurotransmitter release machinery at different sites. <i>Journal of Physiology</i> , 2011, 589, 1103-1115.	2.9	43
28	Respiratory inhibition induced by transient hypertension during sleep in unrestrained cats. <i>Experimental Neurology</i> , 1985, 90, 173-186.	4.1	42
29	Predicting school readiness from neurodevelopmental assessments at age 2 years after respiratory distress syndrome in infants born preterm. <i>Developmental Medicine and Child Neurology</i> , 2010, 52, 379-385.	2.1	39
30	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. <i>Journal of Neuroscience</i> , 2013, 33, 12287-12299.	3.6	39
31	SUMOylation of NaV1.2 channels mediates the early response to acute hypoxia in central neurons. <i>ELife</i> , 2016, 5, .	6.0	36
32	FRET-based voltage probes for confocal imaging: membrane potential oscillations throughout pancreatic islets. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 289, C224-C229.	4.6	32
33	White Matter Injury and General Movements in High-Risk Preterm Infants. <i>American Journal of Neuroradiology</i> , 2017, 38, 162-169.	2.4	32
34	Differential inhibition of the diaphragm and posterior cricoarytenoid muscles induced by transient hypertension across sleep states in intact cats. <i>Experimental Neurology</i> , 1987, 95, 730-742.	4.1	28
35	Physiological hypoxia promotes survival of cultured cortical neurons. <i>European Journal of Neuroscience</i> , 2005, 22, 1319-1326.	2.6	27
36	Sirtuin 3 Deficiency Does Not Augment Hypoxia-Induced Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 885-891.	2.9	25

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37	Correlates of Normal and Abnormal General Movements in Infancy and Long-Term Neurodevelopment of Preterm Infants: Insights from Functional Connectivity Studies at Term Equivalence. <i>Journal of Clinical Medicine</i> , 2020, 9, 834.	2.4	22
38	Hypoxic-Ischemic Brain Injury: Potential Therapeutic Interventions for the Future. <i>NeoReviews</i> , 2014, 15, e177-e186.	0.8	21
39	State-dependent respiratory depression elicited by stimulation of the orbital frontal cortex. <i>Experimental Neurology</i> , 1987, 95, 714-729.	4.1	20
40	Platelet-activating factor-induced chloride channel activation is associated with intracellular acidosis and apoptosis of intestinal epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, G1191-G1200.	3.4	20
41	New variability in cerebrovascular anatomy determines severity of hippocampal injury following forebrain ischemia in the Mongolian gerbil. <i>Brain Research</i> , 2006, 1073-1074, 451-459.	2.2	19
42	Amphiphilic, tri- α -block copolymers provide potent, membrane-targeted neuroprotection. <i>FASEB Journal</i> , 2001, 15, 1107-1109.	0.5	18
43	Predictive Power of Initial Severity of Pulmonary Disease for Subsequent Development of Bronchopulmonary Dysplasia. <i>Neonatology</i> , 2003, 84, 31-36.	2.0	16
44	Inhaled Nitric Oxide and Neuroprotection in Preterm Infants. <i>Clinics in Perinatology</i> , 2008, 35, 793-807.	2.1	15
45	Mitochondrial mechanisms of neuronal rescue by F-68, a hydrophilic Pluronic block co-polymer, following acute substrate deprivation. <i>Neurochemistry International</i> , 2017, 109, 126-140.	3.8	14
46	Secreted protein acidic and rich in cysteine (SPARC) induces lipotoxicity in neuroblastoma by regulating transport of albumin complexed with fatty acids. <i>Oncotarget</i> , 2016, 7, 77696-77706.	1.8	14
47	Epidemiology of Common Neurosurgical Diseases in the Neonate. <i>Neurosurgery Clinics of North America</i> , 1998, 9, 63-72.	1.7	13
48	Tailoring Biomimetic Phosphorylcholine-Containing Block Copolymers as Membrane-Targeting Cellular Rescue Agents. <i>Biomacromolecules</i> , 2019, 20, 3385-3391.	5.4	11
49	Approaches to Noninvasive Respiratory Support in Preterm Infants: From CPAP to NAVA. <i>NeoReviews</i> , 2019, 20, e213-e221.	0.8	11
50	Safety and efficacy of inhaled nitric oxide treatment for premature infants with respiratory distress syndrome: follow-up evaluation at early school age. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2011, 100, 524-528.	1.5	10
51	Poloxamer 188 decreases membrane toxicity of mutant SOD1 and ameliorates pathology observed in SOD1 mouse model for ALS. <i>Neurobiology of Disease</i> , 2018, 115, 115-126.	4.4	10
52	Cardiorespiratory Control during Sleep. <i>Annals of the New York Academy of Sciences</i> , 1988, 533, 368-375.	3.8	5
53	Noninvasive Ventilation in the Premature Newborn "Is Less Always More?". <i>New England Journal of Medicine</i> , 2017, 377, 386-388.	27.0	3
54	Regulation of Vulnerability to NMDA Excitotoxicity During Postnatal Maturation. <i>Contemporary Clinical Neuroscience</i> , 2009, , 3-24.	0.3	2

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55	Effect of Poloxamer 188 on the Osmotic Response of Cell Membranes. <i>Biophysical Journal</i> , 2009, 96, 164a.	0.5	1
56	K2P1 Assembles with K2P3 or K2P9 to Form Sumo-Regulated Task Background Channels. <i>Biophysical Journal</i> , 2010, 98, 710a.	0.5	1
57	Individualized Prediction of Bronchopulmonary Dysplasia Risk. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 183, 1584-1586.	5.6	1
58	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1480, 1.	0.1	1
59	No definitive recommendation for iNO in preterm infants. <i>Journal of Pediatrics</i> , 2006, 149, 146-147.	1.8	0
60	Effect of PEG-based Biocompatible Polymers on the Response of Lipid Vesicles under External Stimuli. <i>Biophysical Journal</i> , 2010, 98, 626a.	0.5	0
61	Mitochondrial Complex Iii Is Required For Increased Reactive Oxygen Species And Cytosolic Calcium Signaling Observed During Acute Hypoxic Pulmonary Vasoconstriction. , 2011, , .		0
62	Development of Biocompatible Polymers for Modulating Lipid Membrane Integrity. <i>Biophysical Journal</i> , 2012, 102, 496a.	0.5	0
63	K2P1 Assembles with K2P3 or K2P9 to Form SUMO-Regulated Task Background Channels in Cerebellar Granule Neurons. <i>Biophysical Journal</i> , 2012, 102, 412a.	0.5	0
64	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. <i>Biophysical Journal</i> , 2013, 104, 242a-243a.	0.5	0
65	Sumoylation of Na V 1.2 Channels Mediates the Early Response to Acute Hypoxia in Central Neurons. <i>Biophysical Journal</i> , 2017, 112, 183a.	0.5	0
66	Toward Networks from Spikes. <i>Springer Series in Computational Neuroscience</i> , 2015, , 277-292.	0.3	0