

Michael Costigan

List of Publications by Year in descending order

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64
papers

8,848
citations

81743

39
h-index

110170

64
g-index

66
all docs

66
docs citations

66
times ranked

9496
citing authors

#	ARTICLE	IF	CITATIONS
1	Mendelian etiologies identified with whole exome sequencing in cerebral palsy. <i>Annals of Clinical and Translational Neurology</i> , 2022, 9, 193-205.	1.7	23
2	Topoisomerase I inhibition and peripheral nerve injury induce DNA breaks and ATF3-associated axon regeneration in sensory neurons. <i>Cell Reports</i> , 2021, 36, 109666.	2.9	16
3	Sepiapterin Reductase Inhibition Leading to Selective Reduction of Inflammatory Joint Pain in Mice and Increased Urinary Sepiapterin Levels in Humans and Mice. <i>Arthritis and Rheumatology</i> , 2020, 72, 57-66.	2.9	13
4	Cytotoxic Immunity in Peripheral Nerve Injury and Pain. <i>Frontiers in Neuroscience</i> , 2020, 14, 142.	1.4	49
5	Human induced pluripotent stem cell-derived GABAergic interneuron transplants attenuate neuropathic pain. <i>Pain</i> , 2020, 161, 379-387.	2.0	25
6	Intracolonic Mustard Oil Induces Visceral Pain in Mice by TRPA1-Dependent and -Independent Mechanisms: Role of Tissue Injury and P2X Receptors. <i>Frontiers in Pharmacology</i> , 2020, 11, 613068.	1.6	6
7	Pain Analgesic Developments in the Genomic Era. , 2020, , 209-237.		0
8	Natural Killer Cells Degenerate Intact Sensory Afferents following Nerve Injury. <i>Cell</i> , 2019, 176, 716-728.e18.	13.5	98
9	The Genetics of Neuropathic Pain from Model Organisms to Clinical Application. <i>Neuron</i> , 2019, 104, 637-653.	3.8	71
10	Reading and writing: the evolution of molecular pain genetics. <i>Pain</i> , 2019, 160, 2177-2185.	2.0	2
11	Diltiazem Promotes Regenerative Axon Growth. <i>Molecular Neurobiology</i> , 2019, 56, 3948-3957.	1.9	19
12	Mechanistic Differences in Neuropathic Pain Modalities Revealed by Correlating Behavior with Global Expression Profiling. <i>Cell Reports</i> , 2018, 22, 1301-1312.	2.9	142
13	Combining Human and Rodent Genetics to Identify New Analgesics. <i>Neuroscience Bulletin</i> , 2018, 34, 143-155.	1.5	15
14	Neuropathic pain drives anxiety behavior in mice, results consistent with anxiety levels in diabetic neuropathy patients. <i>Pain Reports</i> , 2018, 3, e651.	1.4	45
15	The metabolite BH4 controls T cell proliferation in autoimmunity and cancer. <i>Nature</i> , 2018, 563, 564-568.	13.7	174
16	Upâ€“Down Reader: An Open Source Program for Efficiently Processing 50% von Frey Thresholds. <i>Frontiers in Pharmacology</i> , 2018, 9, 433.	1.6	44
17	CNS repair and axon regeneration: Using genetic variation to determine mechanisms. <i>Experimental Neurology</i> , 2017, 287, 409-422.	2.0	24
18	Enhanced Neuronal Regeneration in the CAST/Ei Mouse Strain Is Linked to Expression of Differentiation Markers after Injury. <i>Cell Reports</i> , 2017, 20, 1136-1147.	2.9	26

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19	Time-Resolved Fast Mammalian Behavior Reveals the Complexity of Protective Pain Responses. <i>Cell Reports</i> , 2017, 20, 89-98.	2.9	41
20	Arachidonic acid containing phosphatidylcholine increases due to microglial activation in ipsilateral spinal dorsal horn following spared sciatic nerve injury. <i>PLoS ONE</i> , 2017, 12, e0177595.	1.1	13
21	A Systems-Level Analysis of the Peripheral Nerve Intrinsic Axonal Growth Program. <i>Neuron</i> , 2016, 89, 956-970.	3.8	314
22	Robust Axonal Regeneration Occurs in the Injured CAST/Ei Mouse CNS. <i>Neuron</i> , 2015, 86, 1215-1227.	3.8	87
23	Reduction of Neuropathic and Inflammatory Pain through Inhibition of the Tetrahydrobiopterin Pathway. <i>Neuron</i> , 2015, 86, 1393-1406.	3.8	101
24	The serine protease inhibitor SerpinA3N attenuates neuropathic pain by inhibiting T cell-derived leukocyte elastase. <i>Nature Medicine</i> , 2015, 21, 518-523.	15.2	182
25	Transcriptomic Approaches to Neural Repair. <i>Journal of Neuroscience</i> , 2015, 35, 13860-13867.	1.7	28
26	Post-stroke pain hypersensitivity induced by experimental thalamic hemorrhage in rats is region-specific and demonstrates limited efficacy of gabapentin. <i>Neuroscience Bulletin</i> , 2014, 30, 887-902.	1.5	27
27	Heritability of nociception IV: Neuropathic pain assays are genetically distinct across methods of peripheral nerve injury. <i>Pain</i> , 2014, 155, 868-880.	2.0	13
28	Nuclear Calcium Signaling in Spinal Neurons Drives a Genomic Program Required for Persistent Inflammatory Pain. <i>Neuron</i> , 2013, 77, 43-57.	3.8	114
29	High Energy Diets-Induced Metabolic and Prediabetic Painful Polyneuropathy in Rats. <i>PLoS ONE</i> , 2013, 8, e57427.	1.1	21
30	Construction of a Global Pain Systems Network Highlights Phospholipid Signaling as a Regulator of Heat Nociception. <i>PLoS Genetics</i> , 2012, 8, e1003071.	1.5	23
31	Genetically determined P2X7 receptor pore formation regulates variability in chronic pain sensitivity. <i>Nature Medicine</i> , 2012, 18, 595-599.	15.2	335
32	Analgesia by inhibiting tetrahydrobiopterin synthesis. <i>Current Opinion in Pharmacology</i> , 2012, 12, 92-99.	1.7	39
33	Pain's peptide signature. <i>Pain</i> , 2012, 153, 509-510.	2.0	22
34	TrpA1 Regulates Thermal Nociception in <i>Drosophila</i> . <i>PLoS ONE</i> , 2011, 6, e24343.	1.1	140
35	GCH1, BH4 and Pain. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1728-1741.	0.9	56
36	The BMP Coreceptor RGMB Promotes While the Endogenous BMP Antagonist Noggin Reduces Neurite Outgrowth and Peripheral Nerve Regeneration by Modulating BMP Signaling. <i>Journal of Neuroscience</i> , 2011, 31, 18391-18400.	1.7	64

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37	Accelerating axonal growth promotes motor recovery after peripheral nerve injury in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 4332-4347.	3.9	195
38	R-Flurbiprofen Reduces Neuropathic Pain in Rodents by Restoring Endogenous Cannabinoids. <i>PLoS ONE</i> , 2010, 5, e10628.	1.1	76
39	TRPA1 Contributes to Cold Hypersensitivity. <i>Journal of Neuroscience</i> , 2010, 30, 15165-15174.	1.7	248
40	Multiple chronic pain states are associated with a common amino acid-changing allele in KCNS1. <i>Brain</i> , 2010, 133, 2519-2527.	3.7	224
41	A Genome-wide Drosophila Screen for Heat Nociception Identifies $\hat{1}\pm 2\hat{1}^3$ as an Evolutionarily Conserved Pain Gene. <i>Cell</i> , 2010, 143, 628-638.	13.5	283
42	T-Cell Infiltration and Signaling in the Adult Dorsal Spinal Cord Is a Major Contributor to Neuropathic Pain-Like Hypersensitivity. <i>Journal of Neuroscience</i> , 2009, 29, 14415-14422.	1.7	380
43	Neuropathic Pain: A Maladaptive Response of the Nervous System to Damage. <i>Annual Review of Neuroscience</i> , 2009, 32, 1-32.	5.0	1,562
44	COX2 in CNS neural cells mediates mechanical inflammatory pain hypersensitivity in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 287-94.	3.9	98
45	Ro5-4864 promotes neonatal motor neuron survival and nerve regeneration in adult rats. <i>European Journal of Neuroscience</i> , 2008, 27, 937-946.	1.2	38
46	GCH1 Haplotype Determines Vascular and Plasma Biopterin Availability in Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2008, 52, 158-165.	1.2	83
47	Origins, Actions and Dynamic Expression Patterns of the Neuropeptide VGF in Rat Peripheral and Central Sensory Neurons Following Peripheral Nerve Injury. <i>Molecular Pain</i> , 2008, 4, 1744-8069-4-62.	1.0	40
48	Reliable Screening for a Pain-Protective Haplotype in the GTP Cyclohydrolase 1 Gene (GCH1) Through the Use of 3 or Fewer Single Nucleotide Polymorphisms. <i>Clinical Chemistry</i> , 2007, 53, 1010-1015.	1.5	52
49	Complement Induction in Spinal Cord Microglia Results in Anaphylatoxin C5a-Mediated Pain Hypersensitivity. <i>Journal of Neuroscience</i> , 2007, 27, 8699-8708.	1.7	211
50	Spinal microglia and neuropathic pain in young rats. <i>Pain</i> , 2007, 128, 215-224.	2.0	106
51	GNDF selectively promotes regeneration of injury-primed sensory neurons in the lesioned spinal cord. <i>Molecular and Cellular Neurosciences</i> , 2007, 36, 185-194.	1.0	55
52	GTP cyclohydrolase and tetrahydrobiopterin regulate pain sensitivity and persistence. <i>Nature Medicine</i> , 2006, 12, 1269-1277.	15.2	504
53	The Voltage-Gated Sodium Channel Nav1.9 Is an Effector of Peripheral Inflammatory Pain Hypersensitivity. <i>Journal of Neuroscience</i> , 2006, 26, 12852-12860.	1.7	265
54	High basal expression and injury-induced down regulation of two regulator of G-protein signaling transcripts, RGS3 and RGS4 in primary sensory neurons. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 106-116.	1.0	23

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55	Exploiting microarrays to reveal differential gene expression in the nervous system. <i>Genome Biology</i> , 2003, 4, 105.	13.9	18
56	No DREAM, No Pain. <i>Cell</i> , 2002, 108, 297-300.	13.5	83
57	Replicate high-density rat genome oligonucleotide microarrays reveal hundreds of regulated genes in the dorsal root ganglion after peripheral nerve injury. <i>BMC Neuroscience</i> , 2002, 3, 16.	0.8	489
58	Identification and characterization of a novel human vanilloid receptor-like protein, VRL-2. <i>Physiological Genomics</i> , 2001, 4, 165-174.	1.0	224
59	Developmental Expression of the TTX-Resistant Voltage-Gated Sodium Channels Na _v 1.8 (SNS) and Na _v 1.9 (SNS2) in Primary Sensory Neurons. <i>Journal of Neuroscience</i> , 2001, 21, 6077-6085.	1.7	146
60	Diversity of Expression of the Sensory Neuron-Specific TTX-Resistant Voltage-Gated Sodium Ion Channels SNS and SNS2. <i>Molecular and Cellular Neurosciences</i> , 2000, 15, 331-342.	1.0	264
61	Pain: Molecular mechanisms. <i>Journal of Pain</i> , 2000, 1, 35-44.	0.7	180
62	A Role for HSP27 in Sensory Neuron Survival. <i>Journal of Neuroscience</i> , 1999, 19, 8945-8953.	1.7	155
63	Two sodium channels contribute to the TTX-R sodium current in primary sensory neurons. <i>Nature Neuroscience</i> , 1998, 1, 653-655.	7.1	262
64	Heat Shock Protein 27: Developmental Regulation and Expression after Peripheral Nerve Injury. <i>Journal of Neuroscience</i> , 1998, 18, 5891-5900.	1.7	167