

Robert W Gereau

List of Publications by Year in descending order

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112
papers

12,252
citations

26610

56
h-index

26591

107
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131
all docs

131
docs citations

131
times ranked

12599
citing authors

#	ARTICLE	IF	CITATIONS
1	MAP kinase and pain. <i>Brain Research Reviews</i> , 2009, 60, 135-148.	9.1	872
2	Sensory Neurons Co-opt Classical Immune Signaling Pathways to Mediate Chronic Itch. <i>Cell</i> , 2017, 171, 217-228.e13.	13.5	692
3	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , 2015, 33, 1280-1286.	9.4	658
4	cAMP-Dependent Protein Kinase Regulates Desensitization of the Capsaicin Receptor (VR1) by Direct Phosphorylation. <i>Neuron</i> , 2002, 35, 721-731.	3.8	500
5	Acute p38-Mediated Modulation of Tetrodotoxin-Resistant Sodium Channels in Mouse Sensory Neurons by Tumor Necrosis Factor- α . <i>Journal of Neuroscience</i> , 2006, 26, 246-255.	1.7	428
6	Protein kinase C phosphorylation sensitizes but does not activate the capsaicin receptor transient receptor potential vanilloid 1 (TRPV1). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12480-12485.	3.3	391
7	Metabotropic Glutamate Receptor Subtypes 1 and 5 Are Activators of Extracellular Signal-Regulated Kinase Signaling Required for Inflammatory Pain in Mice. <i>Journal of Neuroscience</i> , 2001, 21, 3771-3779.	1.7	358
8	A wireless closed-loop system for optogenetic peripheral neuromodulation. <i>Nature</i> , 2019, 565, 361-365.	13.7	358
9	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017, 93, 509-521.e3.	3.8	323
10	Synaptic Plasticity in the Amygdala in a Model of Arthritic Pain: Differential Roles of Metabotropic Glutamate Receptors 1 and 5. <i>Journal of Neuroscience</i> , 2003, 23, 52-63.	1.7	223
11	The Kv4.2 Potassium Channel Subunit Is Required for Pain Plasticity. <i>Neuron</i> , 2006, 50, 89-100.	3.8	223
12	Activation of the Extracellular Signal-Regulated Kinase in the Amygdala Modulates Pain Perception. <i>Journal of Neuroscience</i> , 2007, 27, 1543-1551.	1.7	201
13	Lmx1b Is Required for Maintenance of Central Serotonergic Neurons and Mice Lacking Central Serotonergic System Exhibit Normal Locomotor Activity. <i>Journal of Neuroscience</i> , 2006, 26, 12781-12788.	1.7	184
14	Role of Protein Kinase C Phosphorylation in Rapid Desensitization of Metabotropic Glutamate Receptor 5. <i>Neuron</i> , 1998, 20, 143-151.	3.8	179
15	Metabotropic receptors for glutamate and GABA in pain. <i>Brain Research Reviews</i> , 2009, 60, 43-56.	9.1	176
16	Prostaglandin and Protein Kinase A-Dependent Modulation of Vanilloid Receptor Function by Metabotropic Glutamate Receptor 5: Potential Mechanism for Thermal Hyperalgesia. <i>Journal of Neuroscience</i> , 2002, 22, 7444-7452.	1.7	172
17	A Novel Behavioral Assay for Measuring Cold Sensation in Mice. <i>PLoS ONE</i> , 2012, 7, e39765.	1.1	171
18	Spatial transcriptomics of dorsal root ganglia identifies molecular signatures of human nociceptors. <i>Science Translational Medicine</i> , 2022, 14, eabj8186.	5.8	164

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19	A Pain Research Agenda for the 21st Century. <i>Journal of Pain</i> , 2014, 15, 1203-1214.	0.7	145
20	Pain-Induced Negative Affect Is Mediated via Recruitment of The Nucleus Accumbens Kappa Opioid System. <i>Neuron</i> , 2019, 102, 564-573.e6.	3.8	139
21	ERK Integrates PKA and PKC Signaling in Superficial Dorsal Horn Neurons. I. Modulation of A-Type K ⁺ Currents. <i>Journal of Neurophysiology</i> , 2003, 90, 1671-1679.	0.9	137
22	Human sensory neurons: Membrane properties and sensitization by inflammatory mediators. <i>Pain</i> , 2014, 155, 1861-1870.	2.0	137
23	ERK Integrates PKA and PKC Signaling in Superficial Dorsal Horn Neurons. II. Modulation of Neuronal Excitability. <i>Journal of Neurophysiology</i> , 2003, 90, 1680-1688.	0.9	136
24	Posttranslational mechanisms of peripheral sensitization. <i>Journal of Neurobiology</i> , 2004, 61, 88-106.	3.7	134
25	Spatiotemporal Control of Opioid Signaling and Behavior. <i>Neuron</i> , 2015, 86, 923-935.	3.8	131
26	Battery-free, fully implantable optofluidic cuff system for wireless optogenetic and pharmacological neuromodulation of peripheral nerves. <i>Science Advances</i> , 2019, 5, eaaw5296.	4.7	127
27	Mice Lacking Central Serotonergic Neurons Show Enhanced Inflammatory Pain and an Impaired Analgesic Response to Antidepressant Drugs. <i>Journal of Neuroscience</i> , 2007, 27, 6045-6053.	1.7	125
28	Episodic and chronic migraineurs are hypersensitive to thermal stimuli between migraine attacks. <i>Cephalalgia</i> , 2011, 31, 6-12.	1.8	117
29	Divergent Modulation of Nociception by Glutamatergic and GABAergic Neuronal Subpopulations in the Periaqueductal Gray. <i>ENeuro</i> , 2017, 4, ENEURO.0129-16.2017.	0.9	117
30	Identification of Amino Acid Residues that Control Functional Behavior in GluR5 and GluR6 Kainate Receptors. <i>Neuron</i> , 1997, 19, 913-926.	3.8	116
31	Wireless, battery-free optoelectronic systems as subdermal implants for local tissue oximetry. <i>Science Advances</i> , 2019, 5, eaaw0873.	4.7	116
32	Activation of Metabotropic Glutamate Receptor 5 in the Amygdala Modulates Pain-Like Behavior. <i>Journal of Neuroscience</i> , 2010, 30, 8203-8213.	1.7	115
33	Inflammation persistently enhances nocifensive behaviors mediated by spinal group I mGluRs through sustained ERK activation. <i>Pain</i> , 2004, 111, 125-135.	2.0	113
34	Effects of Ethanol and Anesthetics on Type 1 and 5 Metabotropic Glutamate Receptors Expressed in <i>Xenopus laevis</i> Oocytes. <i>Molecular Pharmacology</i> , 1998, 53, 148-156.	1.0	112
35	Stretchable multichannel antennas in soft wireless optoelectronic implants for optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8169-E8177.	3.3	111
36	Macrophage angiotensin II type 2 receptor triggers neuropathic pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8057-E8066.	3.3	107

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37	Metabotropic Glutamate Receptor 5 Modulates Nociceptive Plasticity via Extracellular Signal-Regulated Kinaseâ€“Kv4.2 Signaling in Spinal Cord Dorsal Horn Neurons. <i>Journal of Neuroscience</i> , 2007, 27, 13181-13191.	1.7	103
38	Central Amygdala Metabotropic Glutamate Receptor 5 in the Modulation of Visceral Pain. <i>Journal of Neuroscience</i> , 2012, 32, 14217-14226.	1.7	102
39	Biodegradable Monocrystalline Silicon Photovoltaic Microcells as Power Supplies for Transient Biomedical Implants. <i>Advanced Energy Materials</i> , 2018, 8, 1703035.	10.2	98
40	Wireless multilateral devices for optogenetic studies of individual and social behaviors. <i>Nature Neuroscience</i> , 2021, 24, 1035-1045.	7.1	98
41	Modulation of Presynaptic Calcium Transients by Metabotropic Glutamate Receptor Activation: A Differential Role in Acute Depression of Synaptic Transmission and Long-Term Depression. <i>Journal of Neuroscience</i> , 2002, 22, 6885-6890.	1.7	95
42	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017, 158, 2108-2116.	2.0	93
43	Angiotensin II Triggers Peripheral Macrophage-to-Sensory Neuron Redox Crosstalk to Elicit Pain. <i>Journal of Neuroscience</i> , 2018, 38, 7032-7057.	1.7	92
44	Miniaturized, Batteryâ€“Free Optofluidic Systems with Potential for Wireless Pharmacology and Optogenetics. <i>Small</i> , 2018, 14, 1702479.	5.2	91
45	Natural Wax for Transient Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1801819.	7.8	90
46	Peripheral Group II Metabotropic Glutamate Receptors (mGluR2/3) Regulate Prostaglandin E ₂ -Mediated Sensitization of Capsaicin Responses and Thermal Nociception. <i>Journal of Neuroscience</i> , 2002, 22, 6388-6393.	1.7	84
47	Protein Kinase CÎ² Is a Critical Regulator of Dopamine Transporter Trafficking and Regulates the Behavioral Response to Amphetamine in Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 328, 912-920.	1.3	82
48	RET Signaling Is Required for Survival and Normal Function of Nonpeptidergic Nociceptors. <i>Journal of Neuroscience</i> , 2010, 30, 3983-3994.	1.7	80
49	Transcriptional regulation of type-2 metabotropic glutamate receptors: an epigenetic path to novel treatments for chronic pain. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 153-160.	4.0	80
50	Surgical extraction of human dorsal root ganglia from organ donors and preparation of primary sensory neuron cultures. <i>Nature Protocols</i> , 2016, 11, 1877-1888.	5.5	79
51	A Paranigral VTA Nociceptin Circuit that Constrains Motivation for Reward. <i>Cell</i> , 2019, 178, 653-671.e19.	13.5	76
52	Peripheral group II metabotropic glutamate receptors mediate endogenous anti-allodynia in inflammation. <i>Pain</i> , 2003, 106, 411-417.	2.0	74
53	Potential of cAMP responses by metabotropic glutamate receptors depresses excitatory synaptic transmission by a kinase-independent mechanism. <i>Neuron</i> , 1994, 12, 1121-1129.	3.8	73
54	Characterization of Whole Body Pain in Urological Chronic Pelvic Pain Syndrome at Baseline: A MAPP Research Network Study. <i>Journal of Urology</i> , 2017, 198, 622-631.	0.2	73

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55	Transcriptional Regulation of Metabotropic Glutamate Receptor 2/3 Expression by the NF- κ B Pathway in Primary Dorsal Root Ganglia Neurons: A Possible Mechanism for the Analgesic Effect of L-Acetylcarnitine. <i>Molecular Pain</i> , 2006, 2, 1744-8069-2-20.	1.0	71
56	The Metabotropic Glutamate Receptor Subtype 5 Antagonist Fenobam Is Analgesic and Has Improved in Vivo Selectivity Compared with the Prototypical Antagonist 2-Methyl-6-(phenylethynyl)-pyridine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 330, 834-843.	1.3	69
57	Pharmacological target-focused transcriptomic analysis of native vs cultured human and mouse dorsal root ganglia. <i>Pain</i> , 2020, 161, 1497-1517.	2.0	67
58	Central serotonergic neurons are differentially required for opioid analgesia but not for morphine tolerance or morphine reward. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14519-14524.	3.3	66
59	Segmental Hyperalgesia to Mechanical Stimulus in Interstitial Cystitis/Bladder Pain Syndrome: Evidence of Central Sensitization. <i>Journal of Urology</i> , 2014, 191, 1294-1299.	0.2	63
60	Optogenetic Induction of Colonic Motility in Mice. <i>Gastroenterology</i> , 2018, 155, 514-528.e6.	0.6	62
61	A photoswitchable GPCR-based opsin for presynaptic inhibition. <i>Neuron</i> , 2021, 109, 1791-1809.e11.	3.8	62
62	Inflammation and nerve injury minimally affect mouse voluntary behaviors proposed as indicators of pain. <i>Neurobiology of Pain (Cambridge, Mass)</i> , 2017, 2, 1-12.	1.0	59
63	Activation of spinal extracellular signal-regulated kinases (ERK) 1/2 is associated with the development of visceral hyperalgesia of the bladder. <i>Pain</i> , 2011, 152, 2117-2124.	2.0	58
64	Acetyl-L-Carnitine in Neuropathic Pain. <i>CNS Drugs</i> , 2007, 21, 31-38.	2.7	52
65	Cell type-specific modulation of sensory and affective components of itch in the periaqueductal gray. <i>Nature Communications</i> , 2019, 10, 4356.	5.8	51
66	Group II mGluRs suppress hyperexcitability in mouse and human nociceptors. <i>Pain</i> , 2016, 157, 2081-2088.	2.0	49
67	Optogenetic silencing of nociceptive primary afferents reduces evoked and ongoing bladder pain. <i>Scientific Reports</i> , 2017, 7, 15865.	1.6	49
68	Loss of Par-1a/MARK3/C-TAK1 Kinase Leads to Reduced Adiposity, Resistance to Hepatic Steatosis, and Defective Gluconeogenesis. <i>Molecular and Cellular Biology</i> , 2010, 30, 5043-5056.	1.1	47
69	Human cells and networks of pain: Transforming pain target identification and therapeutic development. <i>Neuron</i> , 2021, 109, 1426-1429.	3.8	47
70	IL-33 signaling in sensory neurons promotes dry skin itch. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 1473-1480.e6.	1.5	44
71	Impaired Inflammatory Pain and Thermal Hyperalgesia in Mice Expressing Neuron-Specific Dominant Negative Mitogen Activated Protein Kinase Kinase (MEK). <i>Molecular Pain</i> , 2006, 2, 1744-8069-2-2.	1.0	43
72	HDAC and HAT Inhibitors Differently Affect Analgesia Mediated by Group II Metabotropic Glutamate Receptors. <i>Molecular Pain</i> , 2014, 10, 1744-8069-10-68.	1.0	43

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73	Numbing the Senses: Role of TRPA1 in Mechanical and Cold Sensation. <i>Neuron</i> , 2006, 50, 177-180.	3.8	42
74	mGlu2 Metabotropic Glutamate Receptors Restrain Inflammatory Pain and Mediate the Analgesic Activity of Dual mGlu2/mGlu3 Receptor Agonists. <i>Molecular Pain</i> , 2011, 7, 1744-8069-7-6.	1.0	42
75	Headache outcomes following treatment of unruptured intracranial aneurysms: A prospective analysis. <i>Cephalalgia</i> , 2011, 31, 1082-1089.	1.8	42
76	Genetic Targeting of ERK1 Suggests a Predominant Role for ERK2 in Murine Pain Models. <i>Journal of Neuroscience</i> , 2010, 30, 11537-11547.	1.7	41
77	Dopamine-Dependent Compensation Maintains Motor Behavior in Mice with Developmental Ablation of Dopaminergic Neurons. <i>Journal of Neuroscience</i> , 2013, 33, 17095-17107.	1.7	41
78	Metabotropic Glutamate Receptors as Targets for Analgesia: Antagonism, Activation, and Allosteric Modulation. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1681-1688.	0.9	40
79	Animal Models of Urologic Chronic Pelvic Pain Syndromes: Findings From the Multidisciplinary Approach to the Study of Chronic Pelvic Pain Research Network. <i>Urology</i> , 2015, 85, 1454-1465.	0.5	40
80	Membrane Topology of a Metabotropic Glutamate Receptor. <i>Journal of Biological Chemistry</i> , 2003, 278, 30294-30301.	1.6	39
81	Protein Kinase C δ Mediates Histamine-Evoked Itch and Responses in Pruriceptors. <i>Molecular Pain</i> , 2015, 11, 1744-8069-11-1.	1.0	39
82	Myelinating Schwann cells ensheath multiple axons in the absence of E3 ligase component Fbxw7. <i>Nature Communications</i> , 2019, 10, 2976.	5.8	39
83	Metabotropic glutamate receptor 5 regulates excitability and Kv4.2-containing K ⁺ channels primarily in excitatory neurons of the spinal dorsal horn. <i>Journal of Neurophysiology</i> , 2011, 105, 3010-3021.	0.9	38
84	Extended amygdala-parabrachial circuits alter threat assessment and regulate feeding. <i>Science Advances</i> , 2021, 7, .	4.7	36
85	The Overlap and Distinction of Self-Reported Symptoms between Interstitial Cystitis/Bladder Pain Syndrome and Overactive Bladder: A Questionnaire Based Analysis. <i>Journal of Urology</i> , 2014, 192, 1679-1686.	0.2	35
86	Voluntary Exercise Training: Analysis of Mice in Uninjured, Inflammatory, and Nerve-Injured Pain States. <i>PLoS ONE</i> , 2015, 10, e0133191.	1.1	35
87	Metabotropic Glutamate Receptor 2/3 (mGluR2/3) Activation Suppresses TRPV1 Sensitization in Mouse, But Not Human, Sensory Neurons. <i>ENeuro</i> , 2018, 5, ENEURO.0412-17.2018.	0.9	35
88	ERK2 Alone Drives Inflammatory Pain But Cooperates with ERK1 in Sensory Neuron Survival. <i>Journal of Neuroscience</i> , 2015, 35, 9491-9507.	1.7	33
89	Protamine Sulfate Induced Bladder Injury Protects from Distention Induced Bladder Pain. <i>Journal of Urology</i> , 2013, 189, 343-351.	0.2	31
90	Enhanced Nonpeptidergic Intraepidermal Fiber Density and an Expanded Subset of Chloroquine-Responsive Trigeminal Neurons in a Mouse Model of Dry Skin Itch. <i>Journal of Pain</i> , 2015, 16, 346-356.	0.7	31

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91	Spotlight on pain: optogenetic approaches for interrogating somatosensory circuits. <i>Pain</i> , 2016, 157, 2424-2433.	2.0	31
92	Isozyme-specific Effects of Protein Kinase C in Pain Modulation. <i>Anesthesiology</i> , 2011, 115, 1261-1270.	1.3	31
93	Assessment of Pain and Itch Behavior in a Mouse Model of Neurofibromatosis Type 1. <i>Journal of Pain</i> , 2013, 14, 628-637.	0.7	30
94	Reproducibility of the heat/capsaicin skin sensitization model in healthy volunteers. <i>Journal of Pain Research</i> , 2013, 6, 771.	0.8	30
95	Effect of progesterone on serotonin turnover in rats primed with estrogen implants into the ventromedial hypothalamus. <i>Brain Research Bulletin</i> , 1993, 32, 293-300.	1.4	29
96	Metabotropic Glutamate Receptor 5 (mGluR5) Regulates Bladder Nociception. <i>Molecular Pain</i> , 2012, 8, 1744-8069-8-20.	1.0	28
97	Profiling the molecular signature of satellite glial cells at the single cell level reveals high similarities between rodents and humans. <i>Pain</i> , 2022, 163, 2348-2364.	2.0	27
98	A Potential Role for Stress-Induced Microbial Alterations in IgA-Associated Irritable Bowel Syndrome with Diarrhea. <i>Cell Reports Medicine</i> , 2020, 1, 100124.	3.3	24
99	Group II metabotropic glutamate receptors inhibit cAMP-dependent protein kinase-mediated enhancement of tetrodotoxin-resistant sodium currents in mouse dorsal root ganglion neurons. <i>Neuroscience Letters</i> , 2004, 357, 159-162.	1.0	23
100	A bright future? Optogenetics in the periphery for pain research and therapy. <i>Pain</i> , 2018, 159, S65-S73.	2.0	23
101	Cellular, circuit and transcriptional framework for modulation of itch in the central amygdala. <i>ELife</i> , 2021, 10, .	2.8	22
102	A Simple and Inexpensive Method for Determining Cold Sensitivity and Adaptation in Mice. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	21
103	Metabotropic Glutamate Receptor 5 Antagonism with Fenobam. <i>Anesthesiology</i> , 2011, 115, 1239-1250.	1.3	21
104	Anti-vascular endothelial growth factor treatment decreases bladder pain in cyclophosphamide cystitis: a Multidisciplinary Approach to the Study of Chronic Pelvic Pain (MAPP) Research Network animal model study. <i>BJU International</i> , 2017, 120, 576-583.	1.3	20
105	Differential Regulation of Bladder Pain and Voiding Function by Sensory Afferent Populations Revealed by Selective Optogenetic Activation. <i>Frontiers in Integrative Neuroscience</i> , 2018, 12, 5.	1.0	20
106	A dynamic set point for thermal adaptation requires phospholipase C-mediated regulation of TRPM8 in vivo. <i>Pain</i> , 2014, 155, 2124-2133.	2.0	19
107	Surgical implantation of wireless, battery-free optoelectronic epidural implants for optogenetic manipulation of spinal cord circuits in mice. <i>Nature Protocols</i> , 2021, 16, 3072-3088.	5.5	19
108	A technique to measure cold adaptation in freely behaving mice. <i>Journal of Neuroscience Methods</i> , 2014, 236, 86-91.	1.3	14

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109	Deletion of Tsc2 in Nociceptors Reduces Target Innervation, Ion Channel Expression, and Sensitivity to Heat. <i>ENeuro</i> , 2018, 5, ENEURO.0436-17.2018.	0.9	11
110	The Effects of Tail Biopsy for Genotyping on Behavioral Responses to Nociceptive Stimuli. <i>PLoS ONE</i> , 2009, 4, e6457.	1.1	8
111	The cannabinoid agonist CB-13 produces peripherally mediated analgesia in mice but elicits tolerance and signs of central nervous system activity with repeated dosing. <i>Pain</i> , 2022, 163, 1603-1621.	2.0	4
112	Postinflammatory hyperpigmentation after human cold pain testing. <i>Pain Reports</i> , 2016, 1, e569.	1.4	0