Rohini Kuner

List of Publications by Year
in descending order

100 papers	7,848 citations	53794 45 h-index	54911 84 g-index
113 all docs	113 docs citations	113 times ranked	9132 citing authors

#	Article	IF	Citations
1	Presynaptic NMDARs on spinal nociceptor terminals state-dependently modulate synaptic transmission and pain. Nature Communications, 2022, 13, 728.	12.8	9
2	Organic anion transporter 1 is an HDAC4-regulated mediator of nociceptive hypersensitivity in mice. Nature Communications, 2022, 13, 875.	12.8	5
3	Brain-based interventions for chronic pain. Neuroforum, 2022, .	0.3	0
4	Neuropathic pain caused by miswiring and abnormal end organ targeting. Nature, 2022, 606, 137-145.	27.8	46
5	Sounding out pain. Science, 2022, 377, 155-156.	12.6	2
6	Neurogenesis of medium spiny neurons in the nucleus accumbens continues into adulthood and is enhanced by pathological pain. Molecular Psychiatry, 2021, 26, 4616-4632.	7.9	9
7	Cellular Circuits in the Brain and Their Modulation in Acute and Chronic Pain. Physiological Reviews, 2021, 101, 213-258.	28.8	155
8	Neuropathic Pain: From Mechanisms to Treatment. Physiological Reviews, 2021, 101, 259-301.	28.8	546
9	The impact of Semaphorin 4C/Plexin-B2 signaling on fear memory via remodeling of neuronal and synaptic morphology. Molecular Psychiatry, 2021, 26, 1376-1398.	7.9	30
10	Loss of POMC-mediated antinociception contributes to painful diabetic neuropathy. Nature Communications, 2021, 12, 426.	12.8	12
11	Locus revealed: Painlessness via loss of NaV1.7 at central terminals of sensory neurons. Neuron, 2021, 109, 1413-1416.	8.1	0
12	Suppression of neuropathic pain and comorbidities by recurrent cycles of repetitive transcranial direct current motor cortex stimulation in mice. Scientific Reports, 2021, 11, 9735.	3.3	11
13	A genome-wide screen reveals microRNAs in peripheral sensory neurons driving painful diabetic neuropathy. Pain, 2021, 162, 1334-1351.	4.2	12
14	Repetitive non-invasive prefrontal stimulation reverses neuropathic pain via neural remodelling in mice. Progress in Neurobiology, 2021, 201, 102009.	5.7	13
15	Plexin-B2 controls the timing of differentiation and the motility of cerebellar granule neurons. ELife, 2021, 10, .	6.0	8
16	Neocortical circuits in pain and pain relief. Nature Reviews Neuroscience, 2021, 22, 458-471.	10.2	63
17	Neurobiology of brain oscillations in acute and chronic pain. Trends in Neurosciences, 2021, 44, 629-642.	8.6	18
18	Neurogenesis in the adult brain functionally contributes to the maintenance of chronic neuropathic pain. Scientific Reports, 2021, 11, 18549.	3.3	4

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19	Neuron-specific biomarkers predict hypo- and hyperalgesia in individuals with diabetic peripheral neuropathy. Diabetologia, 2021, 64, 2843-2855.	6.3	25
20	Future directions in preclinical and translational cancer neuroscience research. Nature Cancer, 2020, 1, 1027-1031.	13.2	19
21	SUMOylation of Enzymes and Ion Channels in Sensory Neurons Protects against Metabolic Dysfunction, Neuropathy, and Sensory Loss in Diabetes. Neuron, 2020, 107, 1141-1159.e7.	8.1	27
22	Characterization of experimental diabetic neuropathy using multicontrast magnetic resonance neurography at ultra high field strength. Scientific Reports, 2020, 10, 7593.	3.3	8
23	Clinically Actionable Strategies for Studying Neural Influences in Cancer. Cancer Cell, 2020, 38, 11-14.	16.8	30
24	Spinal Wnt5a Plays a Key Role in Spinal Dendritic Spine Remodeling in Neuropathic and Inflammatory Pain Models and in the Proalgesic Effects of Peripheral Wnt3a. Journal of Neuroscience, 2020, 40, 6664-6677.	3.6	34
25	CXCL10 and CCL21 Promote Migration of Pancreatic Cancer Cells Toward Sensory Neurons and Neural Remodeling in Tumors in Mice, Associated With Pain in Patients. Gastroenterology, 2020, 159, 665-681.e13.	1.3	72
26	A common ground for pain and depression. Nature Neuroscience, 2019, 22, 1612-1614.	14.8	28
27	Metabolomic signature of type 1 diabetes-induced sensory loss and nerve damage in diabetic neuropathy. Journal of Molecular Medicine, 2019, 97, 845-854.	3.9	44
28	Gamma oscillations in somatosensory cortex recruit prefrontal and descending serotonergic pathways in aversion and nociception. Nature Communications, 2019, 10, 983.	12.8	94
29	Structureâ€“function relationships in peripheral nerve contributions to diabetic peripheral neuropathy. Pain, 2019, 160, S29-S36.	4.2	24
30	Epigenetic control of hypersensitivity in chronic inflammatory pain by the de novo DNA methyltransferase Dnmt3a2. Molecular Pain, 2019, 15, 174480691982746.	2.1	14
31	Molecular, Cellular and Circuit Basis of Cholinergic Modulation of Pain. Neuroscience, 2018, 387, 135-148.	2.3	85
32	Evoked hypoalgesia is accompanied by tonic pain and immune cell infiltration in the dorsal root ganglia at late stages of diabetic neuropathy in mice. Molecular Pain, 2018, 14, 174480691881797.	2.1	32
33	Hypoxia-inducible factor 1Î± protects peripheral sensory neurons from diabetic peripheral neuropathy by suppressing accumulation of reactive oxygen species.. Journal of Molecular Medicine, 2018, 96, 1395-1405.	3.9	29
34	Peripheral Kappa Opioid Receptor Signaling Takes on a Central Role. Neuron, 2018, 99, 1102-1104.	8.1	5
35	miR-34c-5p functions as pronociceptive microRNA in cancer pain by targeting Cav2.3 containing calcium channels. Pain, 2017, 158, 1765-1779.	4.2	30
36	A mouse model for pain and neuroplastic changes associated with pancreatic ductal adenocarcinoma. Pain, 2017, 158, 1609-1621.	4.2	9

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37	Small-molecule inhibition of STOML3 oligomerization reverses pathological mechanical hypersensitivity. Nature Neuroscience, 2017, 20, 209-218.	14.8	59
38	Structural plasticity and reorganisation in chronic pain. Nature Reviews Neuroscience, 2017, 18, 20-30.	10.2	419
39	Therapeutic potential for leukocyte elastase in chronic pain states harboring a neuropathic component. Pain, 2017, 158, 2243-2258.	4.2	27
40	A pathway from midcingulate cortex to posterior insula gates nociceptive hypersensitivity. Nature Neuroscience, 2017, 20, 1591-1601.	14.8	125
41	Semaphorin 4C Plexin-B2 signaling in peripheral sensory neurons is pronociceptive in a model of inflammatory pain. Nature Communications, 2017, 8, 176.	12.8	23
42	Cortex: Unravelling the final frontier in pain. Canadian Journal of Pain, 2017, 1, 3-3.	1.7	0
43	A checkpoint to pain. Nature Neuroscience, 2017, 20, 897-899.	14.8	7
44	The plastic spinal cord: functional and structural plasticity in the transition from acute to chronic pain. E-Neuroforum, 2017, 23, 137-143.	0.1	3
45	Das plastische RÃ¼ckenmark: funktionelle und strukturelle PlastizitÃt bei der Chronifizierung von Schmerzen. E-Neuroforum, 2017, 23, 179-185.	0.1	1
46	Early-onset treadmill training reduces mechanical allodynia and modulates calcitonin gene-related peptide fiber density in lamina III/IV in a mouse model of spinal cord contusion injury. Pain, 2016, 157, 687-697.	4.2	60
47	Voluntary and evoked behavioral correlates in neuropathic pain states under different social housing conditions. Molecular Pain, 2016, 12, 174480691665663.	2.1	68
48	A New Population of Parvocellular Oxytocin Neurons Controlling Magnocellular Neuron Activity and Inflammatory Pain Processing. Neuron, 2016, 89, 1291-1304.	8.1	314
49	A critical role for Piezo2 channels in the mechanotransduction of mouse proprioceptive neurons. Scientific Reports, 2016, 6, 25923.	3.3	82
50	Voluntary and evoked behavioral correlates in inflammatory pain conditions under different social housing conditions. Pain Reports, 2016, 1, e564.	2.7	43
51	Functional characterization of a mouse model for central post-stroke pain. Molecular Pain, 2016, 12, 174480691662904.	2.1	30
52	The Cannabinoid Receptor CB1 Interacts with the WAVE1 Complex and Plays a Role in Actin Dynamics and Structural Plasticity in Neurons. PLoS Biology, 2015, 13, e1002286.	5.6	75
53	A Functional Role for VEGFR1 Expressed in Peripheral Sensory Neurons in Cancer Pain. Cancer Cell, 2015, 27, 780-796.	16.8	97
54	The serine protease inhibitor SerpinA3N attenuates neuropathic pain by inhibiting T cellâ€“derived leukocyte elastase. Nature Medicine, 2015, 21, 518-523.	30.7	182

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55	A role for Kalirin-7 in nociceptive sensitization via activity-dependent modulation of spinal synapses. Nature Communications, 2015, 6, 6820.	12.8	39
56	Meet PAIN Pictured. Pain, 2015, 156, 3.	4.2	3
57	Spinal excitatory mechanisms of pathological pain. Pain, 2015, 156, S11-S17.	4.2	45
58	Unravelling Spinal Circuits of Pain and Mechanical Allodynia. Neuron, 2015, 87, 673-675.	8.1	12
59	Genetic dissection of plexin signaling in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2194-2199.	7.1	61
60	Presynaptic GABAergic inhibition regulated by BDNF contributes to neuropathic pain induction. Nature Communications, 2014, 5, 5331.	12.8	76
61	Oligodendrocyte ablation triggers central pain independently of innate or adaptive immune responses in mice. Nature Communications, 2014, 5, 5472.	12.8	83
62	In Vivo SiRNA Transfection and Gene Knockdown in Spinal Cord via Rapid Noninvasive Lumbar Intrathecal Injections in Mice. Journal of Visualized Experiments, 2014, , .	0.3	43
63	Noncoding RNAs: key molecules in understanding and treating pain. Trends in Molecular Medicine, 2014, 20, 437-448.	6.7	94
64	Wnt-Fzd Signaling Sensitizes Peripheral Sensory Neurons via Distinct Noncanonical Pathways. Neuron, 2014, 83, 104-121.	8.1	67
65	Studying ongoing and spontaneous pain in rodents â€“ challenges and opportunities. European Journal of Neuroscience, 2014, 39, 1881-1890.	2.6	121
66	Sources of Individual Variability: Mirnas That Predispose to Neuropathic Pain Identified Using Genome-Wide Sequencing. Molecular Pain, 2014, 10, 1744-8069-10-22.	2.1	41
67	Synaptic plasticity in pathological pain. Trends in Neurosciences, 2014, 37, 343-355.	8.6	191
68	Transcriptional Mechanisms Underlying Sensitization of Peripheral Sensory Neurons by Granulocyte-/Granulocyte-Macrophage Colony Stimulating Factors. Molecular Pain, 2013, 9, 1744-8069-9-48.	2.1	28
69	A novel biological role for the phospholipid lysophosphatidylinositol in nociceptive sensitization via activation of diverse G-protein signalling pathways in sensory nerves in vivo. Pain, 2013, 154, 2801-2812.	4.2	25
70	Nuclear Calcium Signaling in Spinal Neurons Drives a Genomic Program Required for Persistent Inflammatory Pain. Neuron, 2013, 77, 43-57.	8.1	114
71	Pain hypersensitivity mechanisms at a glance. DMM Disease Models and Mechanisms, 2013, 6, 889-895.	2.4	126
72	Genomeâ€wide identification and functional analyses of micro<scp>RNA</scp> signatures associated with cancer pain. EMBO Molecular Medicine, 2013, 5, 1740-1758.	6.9	53

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73	microRNAs in nociceptive circuits as predictors of future clinical applications. Frontiers in Molecular Neuroscience, 2013, 6, 33.	2.9	70
74	Presynaptically Localized Cyclic GMP-Dependent Protein Kinase 1 Is a Key Determinant of Spinal Synaptic Potentiation and Pain Hypersensitivity. PLoS Biology, 2012, 10, e1001283.	5.6	82
75	Hematopoietic colony-stimulating factors: new players in tumorâ€“nerve interactions. Journal of Molecular Medicine, 2011, 89, 321-329.	3.9	37
76	Peripheral calcium-permeable AMPA receptors regulate chronic inflammatory pain in mice. Journal of Clinical Investigation, 2011, 121, 1608-1623.	8.2	53
77	Dissecting the functional significance of endothelin A receptors in peripheral nociceptors in vivo via conditional gene deletion. Pain, 2010, 148, 206-214.	4.2	26
78	Central mechanisms of pathological pain. Nature Medicine, 2010, 16, 1258-1266.	30.7	629
79	An Improved Behavioural Assay Demonstrates That Ultrasound Vocalizations Constitute a Reliable Indicator of Chronic Cancer Pain and Neuropathic Pain. Molecular Pain, 2010, 6, 1744-8069-6-18.	2.1	59
80	A Key Role for gp130 Expressed on Peripheral Sensory Nerves in Pathological Pain. Journal of Neuroscience, 2009, 29, 13473-13483.	3.6	125
81	Hematopoietic colonyâ€“stimulating factors mediate tumor-nerve interactions and bone cancer pain. Nature Medicine, 2009, 15, 802-807.	30.7	175
82	The semaphorin 4Dâ€plexinâ€B signalLing complex regulates dendritic and axonal complexity in developing neurons via diverse pathways. European Journal of Neuroscience, 2009, 30, 1193-1208.	2.6	38
83	Mice lacking Plexin-B3 display normal CNS morphology and behaviour. Molecular and Cellular Neurosciences, 2009, 42, 372-381.	2.2	19
84	Roles of the AMPA Receptor Subunit GluA1 but Not GluA2 in Synaptic Potentiation and Activation of ERK in the Anterior Cingulate Cortex. Molecular Pain, 2009, 5, 1744-8069-5-46.	2.1	61
85	Activity-dependent potentiation of calcium signals in spinal sensory networks in inflammatory pain states. Pain, 2008, 140, 358-367.	4.2	48
86	A functional role for semaphorin 4D/plexin B1 interactions in epithelial branching morphogenesis during organogenesis. Development (Cambridge), 2008, 135, 3333-3343.	2.5	34
87	Plexin-B2, But Not Plexin-B1, Critically Modulates Neuronal Migration and Patterning of the Developing Nervous System In Vivo. Journal of Neuroscience, 2007, 27, 6333-6347.	3.6	105
88	Cannabinoids mediate analgesia largely via peripheral type 1 cannabinoid receptors in nociceptors. Nature Neuroscience, 2007, 10, 870-879.	14.8	504
89	Synaptic scaffolding protein Homer1a protects against chronic inflammatory pain. Nature Medicine, 2006, 12, 677-681.	30.7	123
90	Late-onset motoneuron disease caused by a functionally modified AMPA receptor subunit. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5826-5831.	7.1	89

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91	Mechanisms of Disease: Motoneuron Disease Aggravated by Transgenic Expression of a Functionally Modified AMPA Receptor Subunit. Annals of the New York Academy of Sciences, 2005, 1053, 269-286.	3.8	5
92	Mechanisms of Disease: Motoneuron Disease Aggravated by Transgenic Expression of a Functionally Modified AMPA Receptor Subunit. Annals of the New York Academy of Sciences, 2005, 1053, 269-286.	3.8	12
93	Plexin-B1/RhoGEFâ€"mediated RhoA activation involves the receptor tyrosine kinase ErbB-2. Journal of Cell Biology, 2004, 165, 869-880.	5.2	146
94	Nitric Oxide Synthase (NOS)-Interacting Protein Interacts with Neuronal NOS and Regulates Its Distribution and Activity. Journal of Neuroscience, 2004, 24, 10454-10465.	3.6	72
95	Plexinâ€B family members demonstrate nonâ€redundant expression patterns in the developing mouse nervous system: an anatomical basis for morphogenetic effects of Sema4D during development. European Journal of Neuroscience, 2004, 19, 2622-2632.	2.6	68
96	Conditional gene deletion in primary nociceptive neurons of trigeminal ganglia and dorsal root ganglia. Genesis, 2004, 38, 122-129.	1.6	179
97	TorsinA, the gene linked to early-onset dystonia, is upregulated by the dopaminergic toxin MPTP in mice. Neuroscience Letters, 2004, 355, 126-130.	2.1	28
98	The AMPA Receptor Subunits GluR-A and GluR-B Reciprocally Modulate Spinal Synaptic Plasticity and Inflammatory Pain. Neuron, 2004, 44, 637-650.	8.1	188
99	TorsinA protects against oxidative stress in COS-1 and PC12 cells. Neuroscience Letters, 2003, 350, 153-156.	2.1	48
100	Plexin-B1 Directly Interacts with PDZ-RhoGEF/LARG to Regulate RhoA and Growth Cone Morphology. Neuron, 2002, 35, 51-63.	8.1	338