

Masamichi Shinoda

List of Publications by Year in descending order

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110
papers

2,776
citations

147801

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233421

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115
all docs

115
docs citations

115
times ranked

2318
citing authors

#	ARTICLE	IF	CITATIONS
1	Satellite Glial Cell P2Y ₁₂ Receptor in the Trigeminal Ganglion is Involved in Lingual Neuropathic Pain Mechanisms in Rats. <i>Molecular Pain</i> , 2012, 8, 1744-8069-8-23.	2.1	98
2	Viscoelastic Properties of the Pig Temporomandibular Joint Articular Soft Tissues of the Condyle and Disc. <i>Journal of Dental Research</i> , 1997, 76, 1760-1769.	5.2	83
3	Effects of physical training on body composition and organ weights in ovariectomized and hyperestrogenic rats. <i>International Journal of Obesity</i> , 2002, 26, 335-343.	3.4	81
4	Mechanical Allodynia and Thermal Hyperalgesia Induced by Experimental Squamous Cell Carcinoma of the Lower Gingiva in Rats. <i>Journal of Pain</i> , 2006, 7, 659-670.	1.4	80
5	Changes in P2X3 receptor expression in the trigeminal ganglion following monoarthritis of the temporomandibular joint in rats. <i>Pain</i> , 2005, 116, 42-51.	4.2	73
6	Nerve Growth Factor Contribution via Transient Receptor Potential Vanilloid 1 to Ectopic Orofacial Pain. <i>Journal of Neuroscience</i> , 2011, 31, 7145-7155.	3.6	70
7	Physiological Mechanisms Of Neuropathic Pain: The Orofacial Region. <i>International Review of Neurobiology</i> , 2011, 97, 227-250.	2.0	69
8	Heat and mechanical hyperalgesia in mice model of cancer pain. <i>Pain</i> , 2005, 117, 19-29.	4.2	68
9	Oxytocin alleviates orofacial mechanical hypersensitivity associated with infraorbital nerve injury through vasopressin-1A receptors of the rat trigeminal ganglia. <i>Pain</i> , 2017, 158, 649-659.	4.2	65
10	Peripheral and Central P2X3 Receptor Contributions to Colon Mechanosensitivity and Hypersensitivity in the Mouse. <i>Gastroenterology</i> , 2009, 137, 2096-2104.	1.3	61
11	Involvement of TRPV1 in Nociceptive Behavior in a Rat Model of Cancer Pain. <i>Journal of Pain</i> , 2008, 9, 687-699.	1.4	60
12	P2X3 Receptor Mediates Heat Hyperalgesia in a Rat Model of Trigeminal Neuropathic Pain. <i>Journal of Pain</i> , 2007, 8, 588-597.	1.4	59
13	Connexin 43 contributes to ectopic orofacial pain following inferior alveolar nerve injury. <i>Molecular Pain</i> , 2016, 12, 174480691663370.	2.1	58
14	Peripheral and Central Mechanisms of Persistent Orofacial Pain. <i>Frontiers in Neuroscience</i> , 2019, 13, 1227.	2.8	58
15	Organization of hyperactive microglial cells in trigeminal spinal subnucleus caudalis and upper cervical spinal cord associated with orofacial neuropathic pain. <i>Brain Research</i> , 2012, 1451, 74-86.	2.2	57
16	Macrophages in trigeminal ganglion contribute to ectopic mechanical hypersensitivity following inferior alveolar nerve injury in rats. <i>Journal of Neuroinflammation</i> , 2017, 14, 249.	7.2	49
17	Fractalkine Signaling in Microglia Contributes to Ectopic Orofacial Pain following Trapezius Muscle Inflammation. <i>Journal of Neuroscience</i> , 2013, 33, 7667-7680.	3.6	48
18	Toll-like receptor 4 signaling in trigeminal ganglion neurons contributes tongue-referred pain associated with tooth pulp inflammation. <i>Journal of Neuroinflammation</i> , 2013, 10, 139.	7.2	45

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19	Alteration of Primary Afferent Activity following Inferior Alveolar Nerve Transection in Rats. <i>Molecular Pain</i> , 2010, 6, 1744-8069-6-9.	2.1	43
20	Group cognitive-behavioral intervention for patients with burning mouth syndrome. <i>Journal of Oral Science</i> , 2013, 55, 17-22.	1.7	43
21	Involvement of TRPV1 and TRPA1 in Incisional Intraoral and Extraoral Pain. <i>Journal of Dental Research</i> , 2015, 94, 446-454.	5.2	43
22	Involvement of ATP and its receptors on nociception in rat model of masseter muscle pain. <i>Pain</i> , 2008, 134, 148-157.	4.2	42
23	(111) Role of P2X receptors in colon hypersensitivity in the mouse. <i>Journal of Pain</i> , 2008, 9, 3.	1.4	40
24	Peripheral and Central Mechanisms of Trigeminal Neuropathic and Inflammatory Pain. <i>Journal of Oral Biosciences</i> , 2011, 53, 318-329.	2.2	39
25	Recent advances in basic research on the trigeminal ganglion. <i>Journal of Physiological Sciences</i> , 2016, 66, 381-386.	2.1	38
26	Mechanisms Underlying Ectopic Persistent Tooth-Pulp Pain following Pulpal Inflammation. <i>PLoS ONE</i> , 2013, 8, e52840.	2.5	36
27	Involvement of ERK Phosphorylation of Trigeminal Spinal Subnucleus Caudalis Neurons in Thermal Hypersensitivity in Rats with Infraorbital Nerve Injury. <i>PLoS ONE</i> , 2013, 8, e57278.	2.5	35
28	Involvement of medullary GABAergic system in extraterritorial neuropathic pain mechanisms associated with inferior alveolar nerve transection. <i>Experimental Neurology</i> , 2015, 267, 42-52.	4.1	34
29	Mechanisms Involved in Extraterritorial Facial Pain following Cervical Spinal Nerve Injury in Rats. <i>Molecular Pain</i> , 2011, 7, 1744-8069-7-12.	2.1	33
30	Immune and Endocrine Function in Patients With Burning Mouth Syndrome. <i>Clinical Journal of Pain</i> , 2014, 30, 168-173.	1.9	33
31	<scp>TRPA</scp>1 contributes to capsaicin-induced facial cold hyperalgesia in rats. <i>European Journal of Oral Sciences</i> , 2014, 122, 391-396.	1.5	32
32	Involvement of peripheral artemin signaling in tongue pain. <i>Pain</i> , 2015, 156, 2528-2537.	4.2	32
33	Orthodontic Force Facilitates Cortical Responses to Periodontal Stimulation. <i>Journal of Dental Research</i> , 2015, 94, 1158-1166.	5.2	32
34	Involvement of Microglial P2Y ₁₂ Signaling in Tongue Cancer Pain. <i>Journal of Dental Research</i> , 2016, 95, 1176-1182.	5.2	32
35	Neuron-glia interaction is a key mechanism underlying persistent orofacial pain. <i>Journal of Oral Science</i> , 2017, 59, 173-175.	1.7	31
36	Nitric Oxide Signaling Contributes to Ectopic Orofacial Neuropathic Pain. <i>Journal of Dental Research</i> , 2013, 92, 1113-1117.	5.2	30

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37	Connexin 43 expression in satellite glial cells contributes to ectopic tooth-pulp pain. <i>Journal of Oral Science</i> , 2018, 60, 493-499.	1.7	30
38	Purinergic Receptors are Involved in Tooth-Pulp Evoked Nocifensive Behavior and Brainstem Neuronal Activity. <i>Molecular Pain</i> , 2010, 6, 1744-8069-6-59.	2.1	29
39	Altered Purinergic Signaling in Colorectal Dorsal Root Ganglion Neurons Contributes to Colorectal Hypersensitivity. <i>Journal of Neurophysiology</i> , 2010, 104, 3113-3123.	1.8	29
40	Ascending multisynaptic pathways from the trigeminal ganglion to the anterior cingulate cortex. <i>Experimental Neurology</i> , 2011, 227, 69-78.	4.1	29
41	Pain intensity and psychosocial characteristics of patients with burning mouth syndrome and trigeminal neuralgia. <i>Journal of Oral Science</i> , 2012, 54, 321-327.	1.7	29
42	P2X3 receptor mediates ectopic mechanical allodynia with inflamed lower lip in mice. <i>Neuroscience Letters</i> , 2012, 528, 67-72.	2.1	29
43	Sensitization of TRPV1 and TRPA1 via peripheral mGluR5 signaling contributes to thermal and mechanical hypersensitivity. <i>Pain</i> , 2017, 158, 1754-1764.	4.2	28
44	PKC δ in Vc and C1/C2 is Involved in Trigeminal Neuropathic Pain. <i>Journal of Dental Research</i> , 2011, 90, 777-781.	5.2	27
45	Modulation of visceral hypersensitivity by glial cell line-derived neurotrophic factor family receptor β -3 in colorectal afferents. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, G418-G424.	3.4	26
46	Nerve terminals extend into the temporomandibular joint of adjuvant arthritic rats. <i>European Journal of Pain</i> , 2003, 7, 493-505.	2.8	25
47	Microglia-Astrocyte Communication via C1q Contributes to Orofacial Neuropathic Pain Associated with Infraorbital Nerve Injury. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6834.	4.1	25
48	P38 Phosphorylation in Medullary Microglia Mediates Ectopic Orofacial Inflammatory Pain in Rats. <i>Molecular Pain</i> , 2015, 11, s12990-015-0053.	2.1	22
49	Role of Neuron-Glial Interaction Mediated by IL-1 β in Ectopic Tooth Pain. <i>Journal of Dental Research</i> , 2018, 97, 467-475.	5.2	22
50	Alternation of Gene Expression in Trigeminal Ganglion Neurons Following Complete Freund's Adjuvant or Capsaicin Injection into the Rat Face. <i>Journal of Molecular Neuroscience</i> , 2010, 42, 200-209.	2.3	21
51	Involvement of neutrophils and interleukin-18 in nociception in a mouse model of muscle pain. <i>Molecular Pain</i> , 2018, 14, 174480691875728.	2.1	21
52	Low-intensity pulsed ultrasound accelerates nerve regeneration following inferior alveolar nerve transection in rats. <i>European Journal of Oral Sciences</i> , 2016, 124, 246-250.	1.5	20
53	Increase in IGF-1 Expression in the Injured Infraorbital Nerve and Possible Implications for Orofacial Neuropathic Pain. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6360.	4.1	20
54	Cold pressor stimulus temperature and resting masseter muscle haemodynamics in normal humans. <i>Archives of Oral Biology</i> , 1998, 43, 849-859.	1.8	19

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55	Involvement of Peripheral Ionotropic Glutamate Receptors in Orofacial Thermal Hyperalgesia in Rats. <i>Molecular Pain</i> , 2011, 7, 1744-8069-7-75.	2.1	19
56	Metabotropic glutamate receptor 5 contributes to inflammatory tongue pain via extracellular signal-regulated kinase signaling in the trigeminal spinal subnucleus caudalis and upper cervical spinal cord. <i>Journal of Neuroinflammation</i> , 2012, 9, 258.	7.2	19
57	Involvement of GluR2 and GluR3 subunit C-termini in the trigeminal spinal subnucleus caudalis and C1/C2 neurons in trigeminal neuropathic pain. <i>Neuroscience Letters</i> , 2011, 491, 8-12.	2.1	18
58	Interaction of IL-1 β and P2X ₃ Receptor in Pathologic Masseter Muscle Pain. <i>Journal of Dental Research</i> , 2013, 92, 456-460.	5.2	18
59	CXCR4 signaling in macrophages contributes to periodontal mechanical hypersensitivity in <i>Porphyromonas gingivalis</i> -induced periodontitis in mice. <i>Molecular Pain</i> , 2017, 13, 174480691668926.	2.1	18
60	Involvement of astroglial glutamate-glutamine shuttle in modulation of the jaw-opening reflex following infraorbital nerve injury. <i>European Journal of Neuroscience</i> , 2014, 39, 2050-2059.	2.6	17
61	Pathophysiological mechanisms of persistent orofacial pain. <i>Journal of Oral Science</i> , 2020, 62, 131-135.	1.7	17
62	Feeding catheter gastrostomy with the round ligament of the liver prevents mechanical bowel obstruction after esophagectomy. <i>Ecological Management and Restoration</i> , 2017, 30, 1-8.	0.4	16
63	Maternal Separation Induces Orofacial Mechanical Allodynia in Adulthood. <i>Journal of Dental Research</i> , 2016, 95, 1191-1197.	5.2	15
64	Involvement of transient receptor potential vanilloid 1 in ectopic pain following inferior alveolar nerve transection in rats. <i>Neuroscience Letters</i> , 2012, 513, 95-99.	2.1	14
65	Regulation of transient receptor potential vanilloid 1 expression in trigeminal ganglion neurons via methyl-CpG binding protein 2 signaling contributes tongue heat sensitivity and inflammatory hyperalgesia in mice. <i>Molecular Pain</i> , 2016, 12, 174480691663320.	2.1	14
66	ERK-GluR1 phosphorylation in trigeminal spinal subnucleus caudalis neurons is involved in pain associated with dry tongue. <i>Molecular Pain</i> , 2016, 12, 174480691664168.	2.1	13
67	CXCR4 signaling contributes to alveolar bone resorption in <i>Porphyromonas gingivalis</i> -induced periodontitis in mice. <i>Journal of Oral Science</i> , 2017, 59, 571-577.	1.7	13
68	Oxytocin-Dependent Regulation of TRPs Expression in Trigeminal Ganglion Neurons Attenuates Orofacial Neuropathic Pain following Infraorbital Nerve Injury in Rats. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9173.	4.1	13
69	Orofacial Neuropathic Pain-Basic Research and Their Clinical Relevancies. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 691396.	2.9	13
70	Involvement of AMPA Receptor GluR2 and GluR3 Trafficking in Trigeminal Spinal Subnucleus Caudalis and C1/C2 Neurons in Acute-Facial Inflammatory Pain. <i>PLoS ONE</i> , 2012, 7, e44055.	2.5	13
71	P2X ₃ receptor upregulation in trigeminal ganglion neurons through TNF α production in macrophages contributes to trigeminal neuropathic pain in rats. <i>Journal of Headache and Pain</i> , 2021, 22, 31.	6.0	12
72	Tumor Necrosis Factor Alpha Signaling in Trigeminal Ganglion Contributes to Mechanical Hypersensitivity in Masseter Muscle During Temporomandibular Joint Inflammation. <i>Journal of Oral and Facial Pain and Headache</i> , 2018, 32, 75-83.	1.4	11

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73	Role of macrophage-mediated Toll-like receptor 4 interleukin-1R signaling in ectopic tongue pain associated with tooth pulp inflammation. <i>Journal of Neuroinflammation</i> , 2020, 17, 312.	7.2	11
74	Organization of pERK-immunoreactive cells in trigeminal spinal nucleus caudalis, upper cervical cord, NTS and Pa5 following capsaicin injection into masticatory and swallowing-related muscles in rats. <i>Brain Research</i> , 2011, 1417, 45-54.	2.2	10
75	Neural communication in the trigeminal ganglion contributes to ectopic orofacial pain. <i>Journal of Oral Biosciences</i> , 2013, 55, 165-168.	2.2	10
76	Morphological and functional changes in regenerated primary afferent fibres following mental and inferior alveolar nerve transection. <i>European Journal of Pain</i> , 2015, 19, 1258-1266.	2.8	10
77	Suppression of Superficial Microglial Activation by Spinal Cord Stimulation Attenuates Neuropathic Pain Following Sciatic Nerve Injury in Rats. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2390.	4.1	10
78	Biomechanical calculation of human TM joint loading with jaw opening. <i>Journal of Oral Rehabilitation</i> , 2000, 27, 940.	3.0	10
79	IL-33 induces orofacial neuropathic pain through Fyn-dependent phosphorylation of GluN2B in the trigeminal spinal subnucleus caudalis. <i>Brain, Behavior, and Immunity</i> , 2022, 99, 266-280.	4.1	10
80	Endothelin Signaling Contributes to Modulation of Nociception in Early-stage Tongue Cancer in Rats. <i>Anesthesiology</i> , 2018, 128, 1207-1219.	2.5	9
81	Role of neuron and non-neuronal cell communication in persistent orofacial pain. <i>Journal of Dental Anesthesia and Pain Medicine</i> , 2019, 19, 77.	1.0	9
82	Pannexin 1 role in the trigeminal ganglion in infraorbital nerve injury-induced mechanical allodynia. <i>Oral Diseases</i> , 2023, 29, 1770-1781.	3.0	9
83	Involvement of Trigeminal Transition Zone and Laminated Subnucleus Caudalis in Masseter Muscle Hypersensitivity Associated with Tooth Inflammation. <i>PLoS ONE</i> , 2014, 9, e109168.	2.5	7
84	Involvement of microglia and astroglia in modulation of the orofacial motor functions in rats with neuropathic pain. <i>Journal of Oral Biosciences</i> , 2017, 59, 17-22.	2.2	7
85	Involvement of transient receptor potential vanilloid 2 in intraoral incisional pain. <i>Oral Diseases</i> , 2018, 24, 1093-1100.	3.0	7
86	A perspective from experimental studies of burning mouth syndrome. <i>Journal of Oral Science</i> , 2020, 62, 165-169.	1.7	7
87	Neurophysiology of Orofacial Pain. , 2017, , 1-23.		7
88	Involvement of TRPV4 ionotropic channel in tongue mechanical hypersensitivity in dry-tongue rats. <i>Journal of Oral Science</i> , 2020, 62, 13-17.	1.7	7
89	Changes in expression of growth-associated protein 43 in trigeminal ganglion neurons and of the jaw opening reflex following inferior alveolar nerve transection in rats. <i>European Journal of Oral Sciences</i> , 2013, 121, 86-91.	1.5	6
90	Phosphorylation of p38 in Trigeminal Ganglion Neurons Contributes to Tongue Heat Hypersensitivity in Mice. <i>Journal of Oral and Facial Pain and Headache</i> , 2017, 31, 372-380.	1.4	6

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91	Involvement of inflammasome activation via elevation of uric acid level in nociception in a mouse model of muscle pain. <i>Molecular Pain</i> , 2019, 15, 174480691985879.	2.1	6
92	Ageing-Related Phenotypic Conversion of Medullary Microglia Enhances Intraoral Incisional Pain Sensitivity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7871.	4.1	6
93	Periodontal acidification contributes to tooth pain hypersensitivity during orthodontic tooth movement. <i>Neuroscience Research</i> , 2022, 177, 103-110.	1.9	6
94	Plastic changes in nociceptive pathways contributing to persistent orofacial pain. <i>Journal of Oral Biosciences</i> , 2022, 64, 263-270.	2.2	6
95	Rapamycin Accelerates Axon Regeneration Through Schwann Cell-mediated Autophagy Following Inferior Alveolar Nerve Transection in Rats. <i>Neuroscience</i> , 2021, 468, 43-52.	2.3	5
96	Neurophysiology of Orofacial Pain. , 2017, , 1-23.		5
97	Pannexin 1-Mediated ATP Signaling in the Trigeminal Spinal Subnucleus Caudalis Is Involved in Tongue Cancer Pain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11404.	4.1	5
98	Involvement of TNF α in the enhancement of hypersensitivity in the adulthood-injured face associated with facial injury in infancy. <i>Neuroscience Research</i> , 2020, 161, 18-23.	1.9	4
99	Involvement of Satellite Cell Activation via Nitric Oxide Signaling in Ectopic Orofacial Hypersensitivity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1252.	4.1	4
100	Peripheral Glial Cell Line-Derived Neurotrophic Factor Facilitates the Functional Recovery of Mechanical Nociception Following Inferior Alveolar Nerve Transection in Rats. <i>Journal of Oral and Facial Pain and Headache</i> , 2018, 32, 229-237.	1.4	3
101	Effect of low-intensity pulsed ultrasound on orofacial sensory disturbance following inferior alveolar nerve injury: Role of neurotrophin-3 signaling. <i>European Journal of Oral Sciences</i> , 2021, 129, e12810.	1.5	3
102	Enhancement of ERK phosphorylation and photic responses in Vc/C1 neurons of a migraine model. <i>Neuroscience Letters</i> , 2017, 647, 14-19.	2.1	2
103	Role of medullary astroglial glutamine synthesis in tooth pulp hypersensitivity associated with frequent masseter muscle contraction. <i>Molecular Pain</i> , 2018, 14, 174480691876327.	2.1	2
104	Topically injected adrenocorticotrophic hormone induces mechanical hypersensitivity on a full-thickness cutaneous wound model in rats. <i>Experimental Dermatology</i> , 2019, 28, 1010-1016.	2.9	2
105	New Models of Experimental Parotitis and Parotid Gland Distension in Rats. <i>Methods in Molecular Biology</i> , 2012, 851, 133-148.	0.9	1
106	Basic research and clinical investigations of the neural basis of orofacial pain. <i>Journal of Oral Biosciences</i> , 2015, 57, 27-36.	2.2	1
107	A Report on the Positive Response to an Outdoor Nature Challenge of a Snow Camp for Young Liver Transplant Patients. <i>Transplantation Proceedings</i> , 2017, 49, 115-120.	0.6	1
108	Effects of physical training on body composition and organ weights in ovariectomized and hyperestrogenic rats. , 0, .		1

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109	Neurophysiology of Orofacial Pain. , 2019, , 1749-1771.		0
110	Neurophysiology of Orofacial Pain. , 2017, , 1-23.		0