

Atsufumi Kawabata

List of Publications by Citations

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204
papers

5,104
citations

39
h-index

59
g-index

221
ext. papers

5,704
ext. citations

5.1
avg, IF

5.56
L-index

#	Paper	IF	Citations
204	Prostaglandin E2 and pain--an update. <i>Biological and Pharmaceutical Bulletin</i> , 2011 , 34, 1170-3	2.3	208
203	Direct inhibition of endothelial nitric oxide synthase by hydrogen sulfide: contribution to dual modulation of vascular tension. <i>Toxicology</i> , 2007 , 232, 138-46	4.4	155
202	Hydrogen sulfide as a novel nociceptive messenger. <i>Pain</i> , 2007 , 132, 74-81	8	137
201	The protease-activated receptor-2 agonist induces gastric mucus secretion and mucosal cytoprotection. <i>Journal of Clinical Investigation</i> , 2001 , 107, 1443-50	15.9	123
200	Effect of topical administration of L-arginine on formalin-induced nociception in the mouse: a dual role of peripherally formed NO in pain modulation. <i>British Journal of Pharmacology</i> , 1994 , 112, 547-50	8.6	119
199	Hyperalgesia induced by spinal and peripheral hydrogen sulfide: evidence for involvement of Cav3.2 T-type calcium channels. <i>Pain</i> , 2009 , 142, 127-32	8	106
198	Increased vascular permeability by a specific agonist of protease-activated receptor-2 in rat hindpaw. <i>British Journal of Pharmacology</i> , 1998 , 125, 419-22	8.6	101
197	A protective role of hydrogen sulfide against oxidative stress in rat gastric mucosal epithelium. <i>Toxicology</i> , 2007 , 241, 11-8	4.4	96
196	Upregulation of Ca(v)3.2 T-type calcium channels targeted by endogenous hydrogen sulfide contributes to maintenance of neuropathic pain. <i>Pain</i> , 2010 , 150, 183-191	8	94
195	L-arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway. <i>British Journal of Pharmacology</i> , 1993 , 109, 73-9	8.6	93
194	Hydrogen sulfide inhibits activity of three isoforms of recombinant nitric oxide synthase. <i>Toxicology</i> , 2007 , 241, 92-7	4.4	88
193	Peripheral PAR-2 triggers thermal hyperalgesia and nociceptive responses in rats. <i>NeuroReport</i> , 2001 , 12, 715-9	1.7	84
192	Proteinase-activated receptor-2 (PAR-2): regulation of salivary and pancreatic exocrine secretion in vivo in rats and mice. <i>British Journal of Pharmacology</i> , 2000 , 129, 1808-14	8.6	72
191	Hydrogen sulfide-induced mechanical hyperalgesia and allodynia require activation of both Cav3.2 and TRPA1 channels in mice. <i>British Journal of Pharmacology</i> , 2012 , 166, 1738-43	8.6	66
190	Gastrointestinal roles for proteinase-activated receptors in health and disease. <i>British Journal of Pharmacology</i> , 2008 , 153 Suppl 1, S230-40	8.6	62
189	Potent and metabolically stable agonists for protease-activated receptor-2: evaluation of activity in multiple assay systems in vitro and in vivo. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004 , 309, 1098-107	4.7	62
188	Antinociceptive effect of L-arginine on the carrageenin-induced hyperalgesia of the rat: possible involvement of central opioidergic systems. <i>European Journal of Pharmacology</i> , 1992 , 218, 153-8	5.3	61

187	Protease-activated receptor (PAR), a novel family of G protein-coupled seven trans-membrane domain receptors: activation mechanisms and physiological roles. <i>The Japanese Journal of Pharmacology</i> , 2000 , 82, 171-4		60
186	In vivo evidence that protease-activated receptors 1 and 2 modulate gastrointestinal transit in the mouse. <i>British Journal of Pharmacology</i> , 2001 , 133, 1213-8	8.6	58
185	Hydrogen sulfide causes relaxation in mouse bronchial smooth muscle. <i>Journal of Pharmacological Sciences</i> , 2007 , 104, 392-6	3.7	57
184	Modulation by protease-activated receptors of the rat duodenal motility in vitro: possible mechanisms underlying the evoked contraction and relaxation. <i>British Journal of Pharmacology</i> , 1999 , 128, 865-72	8.6	57
183	L-leucyl-L-arginine, naltrindole and D-arginine block antinociception elicited by L-arginine in mice with carrageenin-induced hyperalgesia. <i>British Journal of Pharmacology</i> , 1992 , 107, 1096-101	8.6	57
182	Protease-activated receptor-2 (PAR-2) in the pancreas and parotid gland: Immunolocalization and involvement of nitric oxide in the evoked amylase secretion. <i>Life Sciences</i> , 2002 , 71, 2435-46	6.8	56
181	Activation of protease-activated receptor-2 (PAR-2) triggers mucin secretion in the rat sublingual gland. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 270, 298-302	3.4	56
180	Gastrointestinal functions of proteinase-activated receptors. <i>Life Sciences</i> , 2003 , 74, 247-54	6.8	53
179	Modulation of capsaicin-evoked visceral pain and referred hyperalgesia by protease-activated receptors 1 and 2. <i>Journal of Pharmacological Sciences</i> , 2004 , 94, 277-85	3.7	52
178	Physiology and pathophysiology of proteinase-activated receptors (PARs): PARs in the respiratory system: cellular signaling and physiological/pathological roles. <i>Journal of Pharmacological Sciences</i> , 2005 , 97, 20-4	3.7	51
177	Chelating luminal zinc mimics hydrogen sulfide-evoked colonic pain in mice: possible involvement of T-type calcium channels. <i>Neuroscience</i> , 2011 , 181, 257-64	3.9	50
176	T-type calcium channels: functional regulation and implication in pain signaling. <i>Journal of Pharmacological Sciences</i> , 2013 , 122, 244-50	3.7	49
175	Involvement of the endogenous hydrogen sulfide/Ca(v) 3.2 T-type Ca ²⁺ channel pathway in cystitis-related bladder pain in mice. <i>British Journal of Pharmacology</i> , 2012 , 167, 917-28	8.6	48
174	Specific distribution of sialic acids in animal tissues as examined by LC-ESI-MS after derivatization with 1,2-diamino-4,5-methylenedioxybenzene. <i>Analytical Chemistry</i> , 2001 , 73, 5422-8	7.8	48
173	Endogenous and exogenous hydrogen sulfide facilitates T-type calcium channel currents in Cav3.2-expressing HEK293 cells. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 225-9 ³	3.4	47
172	Factor Xa-evoked relaxation in rat aorta: involvement of PAR-2. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 282, 432-5	3.4	45
171	Proteinase activated receptor 2: Role of extracellular loop 2 for ligand-mediated activation. <i>British Journal of Pharmacology</i> , 1999 , 128, 1105-13	8.6	45
170	Signal transduction for proteinase-activated receptor-2-triggered prostaglandin E ₂ formation in human lung epithelial cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005 , 315, 576-89	4.7	44

169	ONO-8130, a selective prostanoid EP1 receptor antagonist, relieves bladder pain in mice with cyclophosphamide-induced cystitis. <i>Pain</i> , 2011 , 152, 1373-1381	8	42
168	PAR2 triggers IL-8 release via MEK/ERK and PI3-kinase/Akt pathways in GI epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 377, 622-626	3.4	41
167	Protease-activated receptor-2 (PAR-2) in the rat gastric mucosa: immunolocalization and facilitation of pepsin/pepsinogen secretion. <i>British Journal of Pharmacology</i> , 2002 , 135, 1292-6	8.6	41
166	Suppression of pancreatitis-related allodynia/hyperalgesia by proteinase-activated receptor-2 in mice. <i>British Journal of Pharmacology</i> , 2006 , 148, 54-60	8.6	40
165	Penetration of cisplatin into mouse brain by lipopolysaccharide. <i>Toxicology</i> , 1998 , 130, 107-13	4.4	39
164	Paclitaxel-induced HMGB1 release from macrophages and its implication for peripheral neuropathy in mice: Evidence for a neuroimmune crosstalk. <i>Neuropharmacology</i> , 2018 , 141, 201-213	5.5	39
163	A protective role of protease-activated receptor 1 in rat gastric mucosa. <i>Gastroenterology</i> , 2004 , 126, 208-19	13.3	38
162	Bladder pain relief by HMGB1 neutralization and soluble thrombomodulin in mice with cyclophosphamide-induced cystitis. <i>Neuropharmacology</i> , 2014 , 79, 112-8	5.5	36
161	Colonic hydrogen sulfide-induced visceral pain and referred hyperalgesia involve activation of both Ca(v)3.2 and TRPA1 channels in mice. <i>Journal of Pharmacological Sciences</i> , 2012 , 119, 293-6	3.7	35
160	Enhancement of vascular permeability by specific activation of protease-activated receptor-1 in rat hindpaw: a protective role of endogenous and exogenous nitric oxide. <i>British Journal of Pharmacology</i> , 1999 , 126, 1856-62	8.6	35
159	Hydrogen sulfide evokes neurite outgrowth and expression of high-voltage-activated Ca ²⁺ currents in NG108-15 cells: involvement of T-type Ca ²⁺ channels. <i>Journal of Neurochemistry</i> , 2009 , 108, 676-84	6	34
158	Roles of nitric oxide and prostaglandins in the increased permeability of the blood-brain barrier caused by lipopolysaccharide. <i>Environmental Toxicology and Pharmacology</i> , 1998 , 5, 35-41	5.8	34
157	Proteinase-activated receptor-2-mediated relaxation in mouse tracheal and bronchial smooth muscle: signal transduction mechanisms and distinct agonist sensitivity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004 , 311, 402-10	4.7	34
156	Peripheral HMGB1-induced hyperalgesia in mice: Redox state-dependent distinct roles of RAGE and TLR4. <i>Journal of Pharmacological Sciences</i> , 2016 , 130, 139-42	3.7	33
155	Dual modulation of the tension of isolated gastric artery and gastric mucosal circulation by hydrogen sulfide in rats. <i>Inflammopharmacology</i> , 2007 , 15, 288-92	5.1	33
154	The PAR-1-activating peptide attenuates carrageenan-induced hyperalgesia in rats. <i>Peptides</i> , 2002 , 23, 1181-3	3.8	33
153	Physiology and pathophysiology of proteinase-activated receptors (PARs): PAR-2 as a potential therapeutic target. <i>Journal of Pharmacological Sciences</i> , 2005 , 97, 38-42	3.7	32
152	PAR-2: structure, function and relevance to human diseases of the gastric mucosa. <i>Expert Reviews in Molecular Medicine</i> , 2002 , 4, 1-17	6.7	31

151	Changes of tissue blood flow in mice loaded with SART (repeated cold) stress or restraint and water immersion stress and the effect of administered neurotropin. <i>The Japanese Journal of Pharmacology</i> , 1986 , 41, 69-79		31
150	Macrophage-derived HMGB1 as a Pain Mediator in the Early Stage of Acute Pancreatitis in Mice: Targeting RAGE and CXCL12/CXCR4 Axis. <i>Journal of NeuroImmune Pharmacology</i> , 2017 , 12, 693-707	6.9	29
149	Intravenous Administration of Cilostazol Nanoparticles Ameliorates Acute Ischemic Stroke in a Cerebral Ischemia/Reperfusion-Induced Injury Model. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 29329-44	6.3	29
148	Suppression by protease-activated receptor-2 activation of gastric acid secretion in rats. <i>European Journal of Pharmacology</i> , 2002 , 447, 87-90	5.3	29
147	Involvement of high mobility group box 1 in the development and maintenance of chemotherapy-induced peripheral neuropathy in rats. <i>Toxicology</i> , 2016 , 365, 48-58	4.4	29
146	Recombinant human soluble thrombomodulin prevents peripheral HMGB1-dependent hyperalgesia in rats. <i>British Journal of Pharmacology</i> , 2013 , 170, 1233-41	8.6	28
145	Effect of a potent iNOS inhibitor (ONO-1714) on acetaminophen-induced hepatotoxicity in the rat. <i>Life Sciences</i> , 2003 , 74, 793-802	6.8	28
144	Dual modulation by thrombin of the motility of rat oesophageal muscularis mucosae via two distinct protease-activated receptors (PARs): a novel role for PAR-4 as opposed to PAR-1. <i>British Journal of Pharmacology</i> , 2000 , 131, 578-84	8.6	28
143	Role of non-macrophage cell-derived HMGB1 in oxaliplatin-induced peripheral neuropathy and its prevention by the thrombin/thrombomodulin system in rodents: negative impact of anticoagulants. <i>Journal of Neuroinflammation</i> , 2019 , 16, 199	10.1	27
142	Distinct activity of peptide mimetic intracellular ligands (pepducins) for proteinase-activated receptor-1 in multiple cells/tissues. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1091, 445-59	6.5	27
141	Involvement of Voltage-Gated Calcium Channels in Inflammation and Inflammatory Pain. <i>Biological and Pharmaceutical Bulletin</i> , 2018 , 41, 1127-1134	2.3	26
140	Characterization of the protease-activated receptor-1-mediated contraction and relaxation in the rat duodenal smooth muscle. <i>Life Sciences</i> , 2000 , 67, 2521-30	6.8	26
139	Mechanism of the analgesic effect of neurotropin. <i>The Japanese Journal of Pharmacology</i> , 1988 , 48, 165-73		26
138	Therapeutic potential of RQ-00311651, a novel T-type Ca ²⁺ channel blocker, in distinct rodent models for neuropathic and visceral pain. <i>Pain</i> , 2016 , 157, 1655-1665	8	26
137	2-Furoyl-LIGRL-NH ₂ , a potent agonist for proteinase-activated receptor-2, as a gastric mucosal cytoprotective agent in mice. <i>British Journal of Pharmacology</i> , 2005 , 144, 212-9	8.6	25
136	The abnormal open-field behavior of SART-stressed rats and effects of some drugs on it. <i>The Japanese Journal of Pharmacology</i> , 1988 , 48, 479-90		25
135	AKAP-dependent sensitization of Ca(v) 3.2 channels via the EP(4) receptor/cAMP pathway mediates PGE(2) -induced mechanical hyperalgesia. <i>British Journal of Pharmacology</i> , 2013 , 168, 734-45	8.6	24
134	Colonic hyperalgesia triggered by proteinase-activated receptor-2 in mice: involvement of endogenous bradykinin. <i>Neuroscience Letters</i> , 2006 , 402, 167-72	3.3	24

133	Binding of a highly potent protease-activated receptor-2 (PAR2) activating peptide, [3H]2-furoyl-LIGRL-NH ₂ , to human PAR2. <i>British Journal of Pharmacology</i> , 2005 , 145, 255-63	8.6	24
132	Capsazepine inhibits thermal hyperalgesia but not nociception triggered by protease-activated receptor-2 in rats. <i>The Japanese Journal of Pharmacology</i> , 2002 , 89, 184-7		24
131	Changes in CNS levels of serotonin and its metabolite in SART-stressed (repeatedly cold-stressed) rats. <i>The Japanese Journal of Pharmacology</i> , 1991 , 56, 101-4		24
130	Rhodanese, but not cystathionine-gamma-lyase, is associated with dextran sulfate sodium-evoked colitis in mice: a sign of impaired colonic sulfide detoxification?. <i>Toxicology</i> , 2009 , 264, 96-103	4.4	23
129	Distinct roles for protease-activated receptors 1 and 2 in vasomotor modulation in rat superior mesenteric artery. <i>Cardiovascular Research</i> , 2004 , 61, 683-92	9.9	23
128	Capsazepine partially inhibits neurally mediated gastric mucus secretion following activation of protease-activated receptor 2. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2002 , 29, 360-1	3	23
127	Characterization of protease-activated receptors in rat peritoneal mast cells. <i>The Japanese Journal of Pharmacology</i> , 2000 , 82, 74-7		23
126	Critical role of Ca _v 3.2 T-type calcium channels in the peripheral neuropathy induced by bortezomib, a proteasome-inhibiting chemotherapeutic agent, in mice. <i>Toxicology</i> , 2019 , 413, 33-39	4.4	23
125	Roles of Cav3.2 and TRPA1 channels targeted by hydrogen sulfide in pancreatic nociceptive processing in mice with or without acute pancreatitis. <i>Journal of Neuroscience Research</i> , 2015 , 93, 361-9	4.4	22
124	Involvement of Src kinase in T-type calcium channel-dependent neuronal differentiation of NG108-15 cells by hydrogen sulfide. <i>Journal of Neurochemistry</i> , 2010 , 114, 512-9	6	22
123	The proteinase inhibitor camostat mesilate suppresses pancreatic pain in rodents. <i>Life Sciences</i> , 2007 , 80, 1999-2004	6.8	22
122	Endogenous Hydrogen Sulfide Enhances Cell Proliferation of Human Gastric Cancer AGS Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2016 , 39, 887-90	2.3	21
121	Curcumin Inhibits the proteinase-activated receptor-2-triggered prostaglandin E ₂ production by suppressing cyclooxygenase-2 upregulation and Akt-dependent activation of nuclear factor- κ B in human lung epithelial cells. <i>Journal of Pharmacological Sciences</i> , 2010 , 114, 225-9	3.7	21
120	Role of N-methyl-D-aspartate receptors and the nitric oxide pathway in nociception/hyperalgesia elicited by protease-activated receptor-2 activation in mice and rats. <i>Neuroscience Letters</i> , 2002 , 329, 349-53	3.3	21
119	Functional upregulation of the H ₂ S/Cav3.2 channel pathway accelerates secretory function in neuroendocrine-differentiated human prostate cancer cells. <i>Biochemical Pharmacology</i> , 2015 , 97, 300-9	6	20
118	Involvement of EDHF in the hypotension and increased gastric mucosal blood flow caused by PAR-2 activation in rats. <i>British Journal of Pharmacology</i> , 2003 , 140, 247-54	8.6	20
117	Somatosensory cortex stimulation-evoked analgesia in rats: potentiation by NO synthase inhibition. <i>Life Sciences</i> , 2000 , 66, PL271-6	6.8	20
116	Changes of total acetylcholine content and the activity of related enzymes in SART (repeated cold)-stressed rat brain and duodenum. <i>The Japanese Journal of Pharmacology</i> , 1986 , 40, 174-7		20

115	Involvement of ERK in NMDA receptor-independent cortical neurotoxicity of hydrogen sulfide. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 414, 727-32	3.4	19
114	Effects of somatosensory cortical stimulation on expression of c-Fos in rat medullary dorsal horn in response to formalin-induced noxious stimulation. <i>Journal of Neuroscience Research</i> , 2002 , 68, 479-88	4.4	19
113	The potent inducible nitric oxide synthase inhibitor ONO-1714 inhibits neuronal NOS and exerts antinociception in rats. <i>Neuroscience Letters</i> , 2004 , 365, 111-5	3.3	19
112	Impact of a pharmacist-implemented anemia management in outpatients with end-stage renal disease in Japan. <i>Biological and Pharmaceutical Bulletin</i> , 2004 , 27, 1831-3	2.3	19
111	Specific expression of spinal Fos after PAR-2 stimulation in mast cell-depleted rats. <i>NeuroReport</i> , 2002 , 13, 511-4	1.7	19
110	Roles of urokinase type plasminogen activator in a brain stab wound. <i>Brain Research</i> , 2000 , 887, 187-90	3.7	19
109	Evidence that endogenous nitric oxide modulates plasma fibrinogen levels in the rat. <i>British Journal of Pharmacology</i> , 1996 , 117, 236-7	8.6	19
108	Inhibition by hydrogen sulfide of rabbit platelet aggregation and calcium mobilization. <i>Biological and Pharmaceutical Bulletin</i> , 2013 , 36, 1278-82	2.3	18
107	Phosphorylation of ERK in the spinal dorsal horn following pancreatic pronociceptive stimuli with proteinase-activated receptor-2 agonists and hydrogen sulfide in rats: evidence for involvement of distinct mechanisms. <i>Journal of Neuroscience Research</i> , 2010 , 88, 3198-205	4.4	18
106	Mechanisms for prostaglandin E2 formation caused by proteinase-activated receptor-1 activation in rat gastric mucosal epithelial cells. <i>Biochemical Pharmacology</i> , 2007 , 73, 103-14	6	18
105	Secondary somatosensory cortex stimulation facilitates the antinociceptive effect of the NO synthase inhibitor through suppression of spinal nociceptive neurons in the rat. <i>Brain Research</i> , 2001 , 903, 110-6	3.7	18
104	Hydrogen Sulfide and T-Type Ca ²⁺ Channels in Pain Processing, Neuronal Differentiation and Neuroendocrine Secretion. <i>Pharmacology</i> , 2017 , 99, 196-203	2.3	17
103	Contribution of TRPA1 as a downstream signal of proteinase-activated receptor-2 to pancreatic pain. <i>Journal of Pharmacological Sciences</i> , 2013 , 123, 284-7	3.7	17
102	Proteinase-activated receptor-2-triggered prostaglandin E(2) release, but not cyclooxygenase-2 upregulation, requires activation of the phosphatidylinositol 3-kinase/Akt / nuclear factor-kappaB pathway in human alveolar epithelial cells. <i>Journal of Pharmacological Sciences</i> , 2009 , 111, 269-75	3.7	17
101	Mechanisms for modulation of mouse gastrointestinal motility by proteinase-activated receptor (PAR)-1 and -2 in vitro. <i>Life Sciences</i> , 2006 , 78, 950-7	6.8	17
100	Attenuation by prolonged nitric oxide synthase inhibition of the enhancement of fibrinolysis caused by environmental stress in the rat. <i>British Journal of Pharmacology</i> , 1996 , 119, 346-50	8.6	17
99	Polaprezinc attenuates cyclophosphamide-induced cystitis and related bladder pain in mice. <i>Journal of Pharmacological Sciences</i> , 2015 , 127, 223-8	3.7	16
98	Proteinase-activated receptors in the gastrointestinal system: a functional linkage to prostanoids. <i>Inflammopharmacology</i> , 2007 , 15, 246-51	5.1	16

97	Antiallodynic effect of etidronate, a bisphosphonate, in rats with adjuvant-induced arthritis: involvement of ATP-sensitive K ⁺ channels. <i>Neuropharmacology</i> , 2006 , 51, 182-90	5.5	16
96	The proteinase/proteinase-activated receptor-2/transient receptor potential vanilloid-1 cascade impacts pancreatic pain in mice. <i>Life Sciences</i> , 2010 , 87, 643-50	6.8	15
95	Signal transduction for formation/release of interleukin-8 caused by a PAR2-activating peptide in human lung epithelial cells. <i>Regulatory Peptides</i> , 2008 , 145, 42-8		15
94	Electrocorticogram in rats loaded with SART stress (repeated cold stress). <i>The Japanese Journal of Pharmacology</i> , 1987 , 45, 365-72		15
93	Cystitis-Related Bladder Pain Involves ATP-Dependent HMGB1 Release from Macrophages and Its Downstream HS/Ca _v 3.2 Signaling in Mice. <i>Cells</i> , 2020 , 9,	7.9	15
92	H ₂ S and Pain: A Novel Aspect for Processing of Somatic, Visceral and Neuropathic Pain Signals. <i>Handbook of Experimental Pharmacology</i> , 2015 , 230, 217-30	3.2	14
91	Hydrogen sulfide and neuronal differentiation: focus on Ca ²⁺ channels. <i>Nitric Oxide - Biology and Chemistry</i> , 2015 , 46, 50-4	5	14
90	Blockade of T-type calcium channels by 6-prenylnaringenin, a hop component, alleviates neuropathic and visceral pain in mice. <i>Neuropharmacology</i> , 2018 , 138, 232-244	5.5	14
89	Evidence that PAR2-triggered prostaglandin E ₂ (PGE ₂) formation involves the ERK-cytosolic phospholipase A ₂ -COX-1-microsomal PGE synthase-1 cascade in human lung epithelial cells. <i>Cell Biochemistry and Function</i> , 2008 , 26, 279-82	4.2	14
88	Activation of trigeminal nociceptive neurons by parotid PAR-2 activation in rats. <i>NeuroReport</i> , 2004 , 15, 1617-21	1.7	14
87	Comparison of antinociception induced by supraspinally administered L-arginine and kyotorphin. <i>British Journal of Pharmacology</i> , 1994 , 112, 817-22	8.6	14
86	Impairment of passive avoidance performance in SART-stressed mice and the action of drugs. <i>The Japanese Journal of Pharmacology</i> , 1989 , 49, 111-7		14
85	The prostaglandin E ₂ /EP4 receptor/cyclic AMP/T-type Ca ²⁺ channel pathway mediates neurogenesis in sensory neuron-like ND7/23 cells. <i>Journal of Pharmacological Sciences</i> , 2016 , 130, 177-80	3.7	13
84	Determination of mucin in salivary glands using sialic acids as the marker by high-performance liquid chromatography with fluorometric detection. <i>Analytical Biochemistry</i> , 2000 , 283, 119-21	3.1	13
83	Changes in platelet count and related parameters in SART-stressed mice and the action of administered neurotrophin. <i>The Japanese Journal of Pharmacology</i> , 1988 , 47, 349-56		13
82	Zinc deficiency promotes cystitis-related bladder pain by enhancing function and expression of Ca _v 3.2 in mice. <i>Toxicology</i> , 2018 , 393, 102-112	4.4	13
81	Receptor-activating peptides for PAR-1 and PAR-2 relax rat gastric artery via multiple mechanisms. <i>Life Sciences</i> , 2004 , 75, 2689-702	6.8	12
80	Lipopolysaccharide-induced subsensitivity of protease-activated receptor-2 in the mouse salivary glands in vivo. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2001 , 364, 281-4	3.4	12

79	Lipopolysaccharide-induced platinum accumulation in the cerebral cortex after cisplatin administration in mice: Involvement of free radicals. <i>Environmental Toxicology and Pharmacology</i> , 1996 , 2, 321-6	5.8	12
78	The noradrenaline precursor L-threo-3,4-dihydroxyphenylserine exhibits antinociceptive activity via central alpha-adrenoceptors in the mouse. <i>British Journal of Pharmacology</i> , 1994 , 111, 503-8	8.6	12
77	The C-Reactive Protein/Albumin Ratio Is Useful for Predicting Short-Term Survival in Cancer and Noncancer Patients. <i>Journal of Palliative Medicine</i> , 2019 , 22, 532-537	2.2	12
76	Role of high-mobility group box 1 and its modulation by thrombomodulin/thrombin axis in neuropathic and inflammatory pain. <i>British Journal of Pharmacology</i> , 2021 , 178, 798-812	8.6	12
75	Topical application of disodium isostearyl 2-O-L-ascorbyl phosphate, an amphiphilic ascorbic acid derivative, reduces neuropathic hyperalgesia in rats. <i>British Journal of Pharmacology</i> , 2012 , 166, 1058-68	8.6	11
74	Human soluble thrombomodulin-induced blockade of peripheral HMGB1-dependent allodynia in mice requires both the lectin-like and EGF-like domains. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 495, 634-638	3.4	11
73	Repeated Cold Stress Enhances the Acute Restraint Stress-Induced Hyperthermia in Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2017 , 40, 11-16	2.3	10
72	Central antinociceptive effect of L-ornithine, a metabolite of L-arginine, in rats and mice. <i>European Journal of Pharmacology</i> , 1996 , 296, 23-31	5.3	10
71	Antihyperalgesic effect of buprenorphine involves nociceptin/orphanin FQ peptide-receptor activation in rats with spinal nerve injury-induced neuropathy. <i>Journal of Pharmacological Sciences</i> , 2013 , 122, 51-4	3.7	9
70	The PAR-1-activating peptide facilitates pepsinogen secretion in rats. <i>Peptides</i> , 2003 , 24, 1449-51	3.8	9
69	Fluorometric determination of mucin-type glycoproteins by the galactose oxidase-peroxidase method. <i>Analytical Biochemistry</i> , 2000 , 284, 87-92	3.1	9
68	Characterization of platelet hypofunctions in rats under SART stress (repeated cold stress). <i>Thrombosis Research</i> , 1993 , 69, 197-207	8.2	9
67	Blood coagulation and fibrinolysis in SART-stressed (repeated cold-stressed) rats and drug effects on the altered hemostatic parameters. <i>The Japanese Journal of Pharmacology</i> , 1991 , 56, 403-12		9
66	Ca _v 3.2 overexpression in L4 dorsal root ganglion neurons after L5 spinal nerve cutting involves Egr-1, USP5 and HMGB1 in rats: An emerging signaling pathway for neuropathic pain. <i>European Journal of Pharmacology</i> , 2020 , 888, 173587	5.3	9
65	Possible involvement of oxygen-derived free radicals in abnormal hemostasis induced by SART stress (repeated cold stress) in laboratory animals. <i>Thrombosis Research</i> , 1993 , 72, 321-31	8.2	8
64	Macrophage as a Peripheral Pain Regulator. <i>Cells</i> , 2021 , 10,	7.9	8
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