Stuart Brierley

List of Publications by Year
in descending order

115 papers	6,771 citations	61857 43 h-index	66788 78 g-index
118 all docs	118 docs citations	118 times ranked	5788 citing authors

#	Article	IF	Citations
1	Enterochromaffin Cells Are Gut Chemosensors that Couple to Sensory Neural Pathways. Cell, 2017, 170, 185-198.e16.	13.5	568
2	Splanchnic and pelvic mechanosensory afferents signal different qualities of colonic stimuli in mice. Gastroenterology, 2004, 127, 166-178.	0.6	275
3	Different contributions of ASIC channels 1a, 2, and 3 in gastrointestinal mechanosensory function. Gut, 2005, 54, 1408-1415.	6.1	246
4	Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. Nature, 2016, 534, 494-499.	13.7	239
5	The Ion Channel TRPA1 Is Required for Normal Mechanosensation and Is Modulated by Algesic Stimuli. Gastroenterology, 2009, 137, 2084-2095.e3.	0.6	232
6	Linaclotide Inhibits Colonic Nociceptors and Relieves Abdominal Pain via Guanylate Cyclase-C and Extracellular Cyclic Guanosine 3â€²,5â€²-Monophosphate. Gastroenterology, 2013, 145, 1334-1346.e11.	0.6	231
7	Selective Role for TRPV4 Ion Channels in Visceral Sensory Pathways. Gastroenterology, 2008, 134, 2059-2069.	0.6	228
8	Neuroplasticity and dysfunction after gastrointestinal inflammation. Nature Reviews Gastroenterology and Hepatology, 2014, 11, 611-627.	8.2	227
9	Sensory neuro-immune interactions differ between Irritable Bowel Syndrome subtypes. Gut, 2013, 62, 1456-1465.	6.1	172
10	Visceral Pain. Annual Review of Physiology, 2019, 81, 261-284.	5.6	159
11	Expression of taste molecules in the upper gastrointestinal tract in humans with and without type 2 diabetes. Gut, 2009, 58, 337-346.	6.1	156
12	Post-inflammatory colonic afferent sensitisation: different subtypes, different pathways and different time courses. Gut, 2009, 58, 1333-1341.	6.1	154
13	Small Bowel Homing T Cells Are Associated With Symptoms and Delayed Gastric Emptying in Functional Dyspepsia. American Journal of Gastroenterology, 2011, 106, 1089-1098.	0.2	149
14	The ion channel ASIC1 contributes to visceral but not cutaneous mechanoreceptor function. Gastroenterology, 2004, 127, 1739-1747.	0.6	138
15	Differential chemosensory function and receptor expression of splanchnic and pelvic colonic afferents in mice. Journal of Physiology, 2005, 567, 267-281.	1.3	135
16	Protease-activated receptor-2 in endosomes signals persistent pain of irritable bowel syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7438-E7447.	3.3	128
17	Transient receptor potential vanilloid 4 mediates protease activated receptor 2-induced sensitization of colonic afferent nerves and visceral hyperalgesia. American Journal of Physiology - Renal Physiology, 2008, 294, G1288-G1298.	1.6	127
18	A novel role for TRPM8 in visceral afferent function. Pain, 2011, 152, 1459-1468.	2.0	124

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19	Selenoether oxytocin analogues have analgesic properties in a mouse model of chronic abdominal pain. Nature Communications, 2014, 5, 3165.	5.8	122
20	TRPA1 contributes to specific mechanically activated currents and sensory neuron mechanical hypersensitivity. Journal of Physiology, 2011, 589, 3575-3593.	1.3	116
21	Pain in Endometriosis. Frontiers in Cellular Neuroscience, 2020, 14, 590823.	1.8	95
22	Ghrelin selectively reduces mechanosensitivity of upper gastrointestinal vagal afferents. American Journal of Physiology - Renal Physiology, 2007, 292, G1376-G1384.	1.6	91
23	Mechanisms Underlying Overactive Bladder and Interstitial Cystitis/Painful Bladder Syndrome. Frontiers in Neuroscience, 2018, 12, 931.	1.4	84
24	Localization and comparative analysis of acid-sensing ion channel (ASIC1, 2, and 3) mRNA expression in mouse colonic sensory neurons within thoracolumbar dorsal root ganglia. Journal of Comparative Neurology, 2007, 500, 863-875.	0.9	83
25	Gastric vagal afferent modulation by leptin is influenced by food intake status. Journal of Physiology, 2013, 591, 1921-1934.	1.3	78
26	Spinal Afferent Innervation of the Colon and Rectum. Frontiers in Cellular Neuroscience, 2018, 12, 467.	1.8	78
27	Î±-Conotoxin Vc1.1 inhibits human dorsal root ganglion neuroexcitability and mouse colonic nociception via GABA_Breceptors. Gut, 2017, 66, 1083-1094.	6.1	77
28	Apelin targets gut contraction to control glucose metabolism via the brain. Gut, 2017, 66, 258-269.	6.1	73
29	Activation of splanchnic and pelvic colonic afferents by bradykinin in mice. Neurogastroenterology and Motility, 2005, 17, 854-862.	1.6	72
30	TRP channels: new targets for visceral pain. Gut, 2010, 59, 126-135.	6.1	69
31	Guanylate cyclase-C receptor activation: unexpected biology. Current Opinion in Pharmacology, 2012, 12, 632-640.	1.7	67
32	Multiple sodium channel isoforms mediate the pathological effects of Pacific ciguatoxin-1. Scientific Reports, 2017, 7, 42810.	1.6	67
33	Deletion of Interleukin-6 Signal Transducer gp130 in Small Sensory Neurons Attenuates Mechanonociception and Down-Regulates TRPA1 Expression. Journal of Neuroscience, 2014, 34, 9845-9856.	1.7	66
34	Neural mechanisms underlying migrating motor complex formation in mouse isolated colon. British Journal of Pharmacology, 2001, 132, 507-517.	2.7	63
35	Sprouting of colonic afferent central terminals and increased spinal mitogenâ€activated protein kinase expression in a mouse model of chronic visceral hypersensitivity. Journal of Comparative Neurology, 2012, 520, 2241-2255.	0.9	62
36	Chronic linaclotide treatment reduces colitis-induced neuroplasticity and reverses persistent bladder dysfunction. JCI Insight, 2018, 3, .	2.3	61

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37	Activation of pruritogenic TGR5, MrgprA3, and MrgprC11 on colon-innervating afferents induces visceral hypersensitivity. JCI Insight, 2019, 4, .	2.3	59
38	Acid sensing ion channels 2 and 3 are required for inhibition of visceral nociceptors by benzamil. Pain, 2007, 133, 150-160.	2.0	56
39	Postâ€inflammatory modification of colonic afferent mechanosensitivity. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 1034-1040.	0.9	56
40	Involvement of metabotropic glutamate 5 receptor in visceral pain. Pain, 2008, 137, 295-305.	2.0	54
41	Structureâ€"Activity Studies of Cysteineâ€Rich Î±â€Conotoxins that Inhibit Highâ€Voltageâ€Activated Calcium Channels via GABA_B Receptor Activation Reveal a Minimal Functional Motif. Angewandte Chemie - International Edition, 2016, 55, 4692-4696.	7.2	54
42	Trefoil Factor Family: Unresolved Questions and Clinical Perspectives. Trends in Biochemical Sciences, 2019, 44, 387-390.	3.7	52
43	Molecular basis of mechanosensitivity. Autonomic Neuroscience: Basic and Clinical, 2010, 153, 58-68.	1.4	47
44	Potentiation of mouse vagal afferent mechanosensitivity by ionotropic and metabotropic glutamate receptors. Journal of Physiology, 2006, 577, 295-306.	1.3	45
45	Immune derived opioidergic inhibition of viscerosensory afferents is decreased in Irritable Bowel Syndrome patients. Brain, Behavior, and Immunity, 2014, 42, 191-203.	2.0	44
46	Cross-organ sensitization between the colon and bladder: to pee or not to pee?. American Journal of Physiology - Renal Physiology, 2018, 314, G301-G308.	1.6	44
47	Histamine induces peripheral and central hypersensitivity to bladder distension via the histamine H₁receptor and TRPV1. American Journal of Physiology - Renal Physiology, 2020, 318, F298-F314.	1.3	42
48	Identifying unique subtypes of spinal afferent nerve endings within the urinary bladder of mice. Journal of Comparative Neurology, 2018, 526, 707-720.	0.9	42
49	Use of natural products in gastrointestinal therapies. Current Opinion in Pharmacology, 2011, 11, 604-611.	1.7	41
50	Increased Îº-opioid receptor expression and function during chronic visceral hypersensitivity. Gut, 2014, 63, 1199-1200.	6.1	40
51	TRPV1-expressing sensory fibres and IBS: links with immune function. Gut, 2009, 58, 465-466.	6.1	37
52	Voltageâ€gated sodium channels: (Na_V)igating the field to determine their contribution to visceral nociception. Journal of Physiology, 2018, 596, 785-807.	1.3	36
53	Cyclic analogues of Î±â€conotoxin Vc1.1 inhibit colonic nociceptors and provide analgesia in a mouse model of chronic abdominal pain. British Journal of Pharmacology, 2018, 175, 2384-2398.	2.7	36
54	NaV1.1 inhibition can reduce visceral hypersensitivity. JCI Insight, 2018, 3, .	2.3	34

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55	Protease-activated receptor 1 is implicated in irritable bowel syndrome mediatorsâ€"induced signaling to thoracic human sensory neurons. Pain, 2018, 159, 1257-1267.	2.0	31
56	Tetrodotoxin-sensitive voltage-gated sodium channels regulate bladder afferent responses to distension. Pain, 2018, 159, 2573-2584.	2.0	31
57	Na_V1.6 regulates excitability of mechanosensitive sensory neurons. Journal of Physiology, 2019, 597, 3751-3768.	1.3	31
58	Colonic afferent input and dorsal horn neuron activation differs between the thoracolumbar and lumbosacral spinal cord. American Journal of Physiology - Renal Physiology, 2019, 317, G285-G303.	1.6	30
59	Contribution of membrane receptor signalling to chronic visceral pain. International Journal of Biochemistry and Cell Biology, 2018, 98, 10-23.	1.2	29
60	Conopeptide-Derived Îº-Opioid Agonists (Conorphins): Potent, Selective, and Metabolic Stable Dynorphin A Mimetics with Antinociceptive Properties. Journal of Medicinal Chemistry, 2016, 59, 2381-2395.	2.9	28
61	G-CSF Receptor Blockade Ameliorates Arthritic Pain and Disease. Journal of Immunology, 2017, 198, 3565-3575.	0.4	28
62	Structureâ€"Activity Studies Reveal the Molecular Basis for GABA_B-Receptor Mediated Inhibition of High Voltage-Activated Calcium Channels by Î±-Conotoxin Vc1.1. ACS Chemical Biology, 2018, 13, 1577-1587.	1.6	28
63	A spider-venom peptide with multitarget activity on sodium and calcium channels alleviates chronic visceral pain in a model of irritable bowel syndrome. Pain, 2021, 162, 569-581.	2.0	28
64	Pain-Causing Venom Peptides: Insights into Sensory Neuron Pharmacology. Toxins, 2018, 10, 15.	1.5	27
65	Coâ€expression of Î¼ and Î´ opioid receptors by mouse colonic nociceptors. British Journal of Pharmacology, 2018, 175, 2622-2634.	2.7	25
66	Translating peripheral bladder afferent mechanosensitivity to neuronal activation within the lumbosacral spinal cord of mice. Pain, 2019, 160, 793-804.	2.0	25
67	Linaclotide treatment reduces endometriosis-associated vaginal hyperalgesia and mechanical allodynia through viscerovisceral cross-talk. Pain, 2019, 160, 2566-2579.	2.0	25
68	NKA enhances bladder-afferent mechanosensitivity via urothelial and detrusor activation. American Journal of Physiology - Renal Physiology, 2018, 315, F1174-F1185.	1.3	23
69	Involvement of galanin receptors 1 and 2 in the modulation of mouse vagal afferent mechanosensitivity. Journal of Physiology, 2007, 583, 675-684.	1.3	21
70	Garcinia buchananii bark extract is an effective anti-diarrheal remedy for lactose-induced diarrhea. Journal of Ethnopharmacology, 2012, 142, 539-547.	2.0	21
71	A Novel Role of Cyclic GMP in Colonic Sensory Neurotransmission in Healthy and TNBS-Treated Mice. Gastroenterology, 2011, 140, S-538.	0.6	20
72	Innervation of the Gastrointestinal Tract by Spinal and Vagal Afferent Nerves. , 2012, , 703-731.		19

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73	Innate immune response to bacterial urinary tract infection sensitises high-threshold bladder afferents and recruits silent nociceptors. Pain, 2020, 161, 202-210.	2.0	19
74	Identification of a Quorum Sensing-Dependent Communication Pathway Mediating Bacteria-Gut-Brain Cross Talk. IScience, 2020, 23, 101695.	1.9	18
75	Olorinab (APD371), a peripherally acting, highly selective, full agonist of the cannabinoid receptor 2, reduces colitis-induced acute and chronic visceral hypersensitivity in rodents. Pain, 2022, 163, e72-e86.	2.0	18
76	Emerging receptor target in the pharmacotherapy of irritable bowel syndrome with constipation. Expert Review of Gastroenterology and Hepatology, 2013, 7, 15-19.	1.4	17
77	Acute colitis chronically alters immune infiltration mechanisms and sensory neuro-immune interactions. Brain, Behavior, and Immunity, 2017, 60, 319-332.	2.0	17
78	Serotonin exerts a direct modulatory role on bladder afferent firing in mice. Journal of Physiology, 2019, 597, 5247-5264.	1.3	17
79	Structure, Function, and Therapeutic Potential of the Trefoil Factor Family in the Gastrointestinal Tract. ACS Pharmacology and Translational Science, 2020, 3, 583-597.	2.5	17
80	Design of a Stable Cyclic Peptide Analgesic Derived from Sunflower Seeds that Targets the Îº-Opioid Receptor for the Treatment of Chronic Abdominal Pain. Journal of Medicinal Chemistry, 2021, 64, 9042-9055.	2.9	17
81	5â€HT₃ and 5â€HT₄ receptors contribute to the antiâ€motility effects of <i>Garcinia buchananii</i> bark extract in the guineaâ€pig distal colon. Neurogastroenterology and Motility, 2012, 24, e27-40.	1.6	16
82	Identifying spinal sensory pathways activated by noxious esophageal acid. Neurogastroenterology and Motility, 2013, 25, e660-8.	1.6	16
83	Identifying the Ion Channels Responsible for Signaling Gastro-Intestinal Based Pain. Pharmaceuticals, 2010, 3, 2768-2798.	1.7	14
84	Activation of coloâ€rectal highâ€threshold afferent nerves by Interleukinâ€2 is tetrodotoxinâ€sensitive and upregulated in a mouse model of chronic visceral hypersensitivity. Neurogastroenterology and Motility, 2016, 28, 54-63.	1.6	14
85	Extrinsic Sensory Afferent Nerves Innervating the Gastrointestinal Tract in Health and Disease. , 2018, , 387-418.		14
86	Purinergic receptor mediated calcium signalling in urothelial cells. Scientific Reports, 2019, 9, 16101.	1.6	12
87	The Hot Mustard Receptor's Role in Gut Motor Function. Gastroenterology, 2011, 141, 423-427.	0.6	10
88	Mo1849 Mechanism of Action for Linaclotide Induced Abdominal Pain Relief. Gastroenterology, 2012, 142, S-699.	0.6	10
89	A mouse model of endometriosis that displays vaginal, colon, cutaneous, and bladder sensory comorbidities. FASEB Journal, 2021, 35, e21430.	0.2	10
90	Pharmacological Inhibition of the Voltage-Gated Sodium Channel NaV1.7 Alleviates Chronic Visceral Pain in a Rodent Model of Irritable Bowel Syndrome. ACS Pharmacology and Translational Science, 2021, 4, 1362-1378.	2.5	10

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91	Altered Ion Channel/Receptor Expression and Function in Extrinsic Sensory Neurons: The Cause of and Solution to Chronic Visceral Pain?. Advances in Experimental Medicine and Biology, 2016, 891, 75-90.	0.8	9
92	Synthesis of Multivalent [Lys8]-Oxytocin Dendrimers that Inhibit Visceral Nociceptive Responses. Australian Journal of Chemistry, 2017, 70, 162.	0.5	9
93	Activation of MrgprA3 and MrgprC11 on Bladder-Innervating Afferents Induces Peripheral and Central Hypersensitivity to Bladder Distension. Journal of Neuroscience, 2021, 41, 3900-3916.	1.7	9
94	Pharmacological modulation of voltage-gated sodium (NaV) channels alters nociception arising from the female reproductive tract. Pain, 2021, 162, 227-242.	2.0	9
95	Garcinia Buchananii Bark Extract Inhibits Nociceptors, With Greater Efficacy During Inflammation. Gastroenterology, 2011, 140, S-866.	0.6	8
96	Experimentally Induced Bladder Permeability Evokes Bladder Afferent Hypersensitivity in the Absence of Inflammation. Frontiers in Neuroscience, 2020, 14, 590871.	1.4	8
97	Guanylate cyclase-C agonists as peripherally acting treatments of chronic visceral pain. Trends in Pharmacological Sciences, 2022, 43, 110-122.	4.0	8
98	Pruritogenic mechanisms and gut sensation: putting the â€œirritantâ€• into irritable bowel syndrome. American Journal of Physiology - Renal Physiology, 2021, 320, G1131-G1141.	1.6	6
99	A syngeneic inoculation mouse model of endometriosis that develops multiple comorbid visceral and cutaneous pain like behaviours. Pain, 2021, Publish Ahead of Print, .	2.0	6
100	Effects and sites of action of a M1 receptor positive allosteric modulator on colonic motility in rats and dogs compared with 5â€HT 4 agonism and cholinesterase inhibition. Neurogastroenterology and Motility, 2020, 32, e13866.	1.6	4
101	Orai1â€•and Orai2â€, but not Orai3â€mediated <i>I</i> _{CRAC} is regulated by intracellular pH. Journal of Physiology, 2022, 600, 623-643.	1.3	4
102	561 Chronic Oral Administration of the Guanylate Cyclase-C Agonist Linaclotide Attenuates Colitis Induced Bladder Afferent Hyperactivity. Gastroenterology, 2016, 150, S118-S119.	0.6	3
103	Gut nociceptors: sentinels promoting host defense. Cell Research, 2020, 30, 279-280.	5.7	3
104	TRP Channels in Visceral Pain. Open Pain Journal, 2013, 6, 23-30.	0.4	3
105	Clodronate Treatment Prevents Vaginal Hypersensitivity in a Mouse Model of Vestibulodynia. Frontiers in Cellular and Infection Microbiology, 2021, 11, 784972.	1.8	3
106	Structureâ€“Activity Studies of Cysteineâ€Rich Î±â€Conotoxins that Inhibit Highâ€Voltageâ€Activated Calcium Channels via GABA_B Receptor Activation Reveal a Minimal Functional Motif. Angewandte Chemie, 2016, 128, 4770-4774.	1.6	2
107	Su1578 â€“ Chronic Intracolonic Administration of Linaclotide Inhibits Nociceptive Signaling in a Mouse Model of Chronic Visceral Hypersensitivity. Gastroenterology, 2019, 156, S-570.	0.6	2
108	TGR5 agonists induce peripheral and central hypersensitivity to bladder distension. Scientific Reports, 2022, 12, .	1.6	2

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109	Visualising vagal afferent neurons and their terminals whilst silencing TRPV1. Journal of Physiology, 2010, 588, 4069-4070.	1.3	1
110	Sa1677 â€" Chronic Colonic Administration of the Guanylate Cyclase-C Agonist Linaclotide Attenuates Colitis Induced Bladder Afferent Hyperactivity. Gastroenterology, 2019, 156, S-363.	0.6	1
111	Mo1146 CHRONIC INTRA-COLONIC LINACLOTIDE ADMINISTRATION ALTERS GLIAL ACTIVATION IN A MOUSE MODEL OF CHRONIC VISCERAL HYPERSENSITIVITY. Gastroenterology, 2020, 158, S-803.	0.6	1
112	Food for thought about the immune drivers of gut pain. Nature, 2021, 590, 41-43.	13.7	1
113	All ahead stop! How intestinal motility adapts to cope with inflammation induced ulceration. Journal of Physiology, 2010, 588, 753-754.	1.3	0
114	HIGHLIGHTS IN BASIC AUTONOMIC NEUROSCIENCES. Autonomic Neuroscience: Basic and Clinical, 2010, 152, 1-3.	1.4	0
115	Gastrointestinal Sensation; General Principles. , 2020, , 701-710.		0