

Peter R Strege

List of Publications by Year in descending order

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41
papers

1,926
citations

279798

23
h-index

289244

40
g-index

44
all docs

44
docs citations

44
times ranked

2107
citing authors

#	ARTICLE	IF	CITATIONS
1	A population of gut epithelial enterochromaffin cells is mechanosensitive and requires Piezo2 to convert force into serotonin release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7632-E7641.	7.1	174
2	Mechanosensitivity of Na ^v 1.5, a voltage-sensitive sodium channel. <i>Journal of Physiology</i> , 2010, 588, 4969-4985.	2.9	155
3	Sodium current in human intestinal interstitial cells of Cajal. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 285, G1111-G1121.	3.4	130
4	Loss-of-Function of the Voltage-Gated Sodium Channel Nav1.5 (Channelopathies) in Patients With Irritable Bowel Syndrome. <i>Gastroenterology</i> , 2014, 146, 1659-1668.	1.3	120
5	Sodium channel mutation in irritable bowel syndrome: evidence for an ion channelopathy. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G211-G218.	3.4	112
6	Î± _{1C} (Ca _v 1.2) L-type calcium channel mediates mechanosensitive calcium regulation. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C1001-C1008.	4.6	104
7	Syntrophin Î²2 Regulates SCN5A Gating by a PDZ Domain-mediated Interaction. <i>Journal of Biological Chemistry</i> , 2003, 278, 1915-1923.	3.4	103
8	Altered Expression of Ano1 Variants in Human Diabetic Gastroparesis. <i>Journal of Biological Chemistry</i> , 2011, 286, 13393-13403.	3.4	95
9	Exogenous Serotonin Regulates Proliferation of Interstitial Cells of Cajal in Mouse Jejunum Through 5-HT _{2B} Receptors. <i>Gastroenterology</i> , 2007, 133, 897-906.	1.3	78
10	Inhibition of cell proliferation by a selective inhibitor of the Ca ²⁺ -activated Cl ⁻ channel, Ano1. <i>Biochemical and Biophysical Research Communications</i> , 2012, 427, 248-253.	2.1	78
11	Sodium current in human jejunal circular smooth muscle cells. <i>Gastroenterology</i> , 2002, 122, 178-187.	1.3	72
12	Ranolazine Decreases Mechanosensitivity of the Voltage-Gated Sodium Ion Channel Na ^v 1.5. <i>Circulation</i> , 2012, 125, 2698-2706.	1.6	70
13	Cytoskeletal modulation of sodium current in human jejunal circular smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C60-C66.	4.6	64
14	A Mutation in Telethonin Alters Nav1.5 Function. <i>Journal of Biological Chemistry</i> , 2008, 283, 16537-16544.	3.4	59
15	Carbon monoxide activates human intestinal smooth muscle L-type Ca ²⁺ channels through a nitric oxide-dependent mechanism. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 288, G7-G14.	3.4	52
16	Effect of mibefradil on sodium and calcium currents. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 289, G249-G253.	3.4	42
17	Irritable bowel syndrome patients have <i>SCN5A</i> channelopathies that lead to decreased Na ^v 1.5 current and mechanosensitivity. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, G494-G503.	3.4	40
18	The Î± _{1H} Ca ²⁺ channel subunit is expressed in mouse jejunal interstitial cells of Cajal and myocytes. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 4422-4431.	3.6	33

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19	Lysophosphatidyl choline modulates mechanosensitive L-type Ca ²⁺ current in circular smooth muscle cells from human jejunum. American Journal of Physiology - Renal Physiology, 2009, 296, G833-G839.	3.4	31
20	Hydrogen sulfide is a partially redox-independent activator of the human jejunum Na ⁺ channel, Na _v 1.5. American Journal of Physiology - Renal Physiology, 2011, 300, G1105-G1114.	3.4	29
21	Sodium channel NaV1.3 is important for enterochromaffin cell excitability and serotonin release. Scientific Reports, 2017, 7, 15650.	3.3	28
22	Ranolazine inhibits voltage-gated mechanosensitive sodium channels in human colon circular smooth muscle cells. American Journal of Physiology - Renal Physiology, 2015, 309, G506-G512.	3.4	26
23	Protein Kinase C β Mediates Regulation of Proliferation by the Serotonin 5-Hydroxytryptamine Receptor 2B. Journal of Biological Chemistry, 2009, 284, 21177-21184.	3.4	23
24	Mechanotransduction in gastrointestinal smooth muscle cells: role of mechanosensitive ion channels. American Journal of Physiology - Renal Physiology, 2021, 320, G897-G906.	3.4	22
25	T-type Ca ²⁺ channel modulation by otilonium bromide. American Journal of Physiology - Renal Physiology, 2010, 298, G706-G713.	3.4	21
26	Ranolazine inhibits shear sensitivity of endogenous Na ⁺ current and spontaneous action potentials in HL-1 cells. Channels, 2012, 6, 457-462.	2.8	21
27	Quantification of gastrointestinal sodium channelopathy. Journal of Theoretical Biology, 2012, 293, 41-48.	1.7	21
28	Genome-wide analysis of 944 133 individuals provides insights into the etiology of haemorrhoidal disease. Gut, 2021, 70, 1538-1549.	12.1	21
29	Membrane permeable local anesthetics modulate NaV1.5 mechanosensitivity. Channels, 2012, 6, 308-316.	2.8	20
30	microRNA overexpression in slow transit constipation leads to reduced Na _v 1.5 current and altered smooth muscle contractility. Gut, 2020, 69, 868-876.	12.1	18
31	Direct repression of anoctamin 1 (ANO1) gene transcription by Gli proteins. FASEB Journal, 2019, 33, 6632-6642.	0.5	16
32	<i>SCN5A</i> mutation G615E results in Na _v 1.5 voltage-gated sodium channels with normal voltage-dependent function yet loss of mechanosensitivity. Channels, 2019, 13, 287-298.	2.8	14
33	A novel exon in the human Ca ²⁺ -activated Cl ⁻ channel Ano1 imparts greater sensitivity to intracellular Ca ²⁺ . American Journal of Physiology - Renal Physiology, 2015, 309, G743-G749.	3.4	13
34	EAVK segment "E" sequence confers Ca ²⁺ -dependent changes to the kinetics of full-length human Ano1. American Journal of Physiology - Renal Physiology, 2017, 312, G572-G579.	3.4	6
35	Whole Cell Electrophysiology of Primary Cultured Murine Enterochromaffin Cells. Journal of Visualized Experiments, 2018, , .	0.3	4
36	Capsaicin as an amphipathic modulator of Na _v 1.5 mechanosensitivity. Channels, 2022, 16, 9-26.	2.8	3

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37	181 Mouse Colon Enterochromaffin (EC) Cells Express Voltage-Gated Sodium Channels and Are Electrically Excitable. <i>Gastroenterology</i> , 2016, 150, S47.	1.3	2
38	Expression of the regulated isoform of the electrogenic Na ⁺ /HCO ₃ ⁻ cotransporter, NBCe1, is enriched in pacemaker interstitial cells of Cajal. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G93-G107.	3.4	2
39	SCN3A-Encoded Voltage-Gated Sodium Channel Nav1.3 Bestows Mouse Enterochromaffin Cells with Patterns of Bursting Electrical Activity. <i>Gastroenterology</i> , 2017, 152, S710.	1.3	1
40	Tu1268 - IBS-Associated Scn5A Mutation G615E Results in Nav1.5 Voltage-Dependent Sodium Channels with Normal Voltage-Dependent Function and Loss of Mechanosensitivity. <i>Gastroenterology</i> , 2018, 154, S-920.	1.3	1
41	The Na ⁺ /HCO ₃ ⁻ Cotransporter (Nbc1, Slc4a4) is Enriched in Interstitial Cells of Cajal Responsible for Generating Electrical Slow Wave Activity in the Mouse Gastrointestinal Tract. <i>FASEB Journal</i> , 2019, 33, 544.8.	0.5	0