

Arthur Beyder

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,141
citations

279701

23
h-index

243529

44
g-index

62
all docs

62
docs citations

62
times ranked

2788
citing authors

#	ARTICLE	IF	CITATIONS
1	Specialized Mechanosensory Epithelial Cells in Mouse Gut Intrinsic Tactile Sensitivity. <i>Gastroenterology</i> , 2022, 162, 535-547.e13.	0.6	44
2	Gut feelings: mechanosensing in the gastrointestinal tract. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2022, 19, 283-296.	8.2	52
3	Targeted ablation of gastric pacemaker sites to modulate patterns of bioelectrical slow wave activation and propagation in an anesthetized pig model. <i>American Journal of Physiology - Renal Physiology</i> , 2022, 322, G431-G445.	1.6	10
4	Studying Murine Small Bowel Mechanosensing of Luminal Particulates. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	0
5	LEtS set the tone. <i>Journal of Physiology</i> , 2022, 600, 2541-2542.	1.3	0
6	Capsaicin as an amphipathic modulator of Na ^V 1.5 mechanosensitivity. <i>Channels</i> , 2022, 16, 9-26.	1.5	3
7	Bacteria-Derived Hypoxanthine Accelerates Gastrointestinal Transit. <i>FASEB Journal</i> , 2022, 36, .	0.2	1
8	A simple automated approach to measure mouse whole gut transit. <i>Neurogastroenterology and Motility</i> , 2021, 33, e13994.	1.6	7
9	NACHO and 14-3-3 promote expression of distinct subunit stoichiometries of the $\alpha 4\beta 2$ acetylcholine receptor. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 1565-1575.	2.4	14
10	Gastric ablation as a novel technique for modulating electrical conduction in the in vivo stomach. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G573-G585.	1.6	15
11	Genome-wide analysis of 944 133 individuals provides insights into the etiology of haemorrhoidal disease. <i>Gut</i> , 2021, 70, 1538-1549.	6.1	21
12	Mechanotransduction in gastrointestinal smooth muscle cells: role of mechanosensitive ion channels. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G897-G906.	1.6	22
13	Identification of intrinsic primary afferent neurons in mouse jejunum. <i>Neurogastroenterology and Motility</i> , 2020, 32, e13989.	1.6	11
14	microRNA overexpression in slow transit constipation leads to reduced Na ^V 1.5 current and altered smooth muscle contractility. <i>Gut</i> , 2020, 69, 868-876.	6.1	18
15	Enteric Glial Networks Visualized using SOX10 Fluorescent Reporter in Optically-Cleared Full Thickness Intestinal Tissues. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	1
16	Epithelial Mechanosensitive Ion Channel Piezo2 Contributes to Pressure-Induced Epithelial Chloride Secretion in Mouse Colon. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
17	<i>SCN5A</i> mutation G615E results in Na ^V 1.5 voltage-gated sodium channels with normal voltage-dependent function yet loss of mechanosensitivity. <i>Channels</i> , 2019, 13, 287-298.	1.5	14
18	TRPPing up bronchiectasis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L464-L465.	1.3	0

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19	Mechanical Stretch Increases Expression of CXCL1 in Liver Sinusoidal Endothelial Cells to Recruit Neutrophils, Generate Sinusoidal Microthrombi, and Promote Portal Hypertension. <i>Gastroenterology</i> , 2019, 157, 193-209.e9.	0.6	134
20	Telocytes express <i>ANO1</i> -encoded chloride channels in canine ventricular myocardium. <i>Journal of Arrhythmia</i> , 2019, 35, 515-521.	0.5	3
21	Neutrophil-induced genomic instability impedes resolution of inflammation and wound healing. <i>Journal of Clinical Investigation</i> , 2019, 129, 712-726.	3.9	117
22	The α -type Voltage Gated Calcium Channel Cav3.2 is Important for Enteroendocrine Cell Mechanotransduction. <i>FASEB Journal</i> , 2019, 33, 601.4.	0.2	1
23	Gut development on a full stomach. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2018, 15, 394-395.	8.2	1
24	47-Year-Old Man With Abdominal Pain and Diarrhea. <i>Mayo Clinic Proceedings</i> , 2018, 93, e1-e6.	1.4	0
25	Irritable bowel syndrome patients have <i>SCN5A</i> channelopathies that lead to decreased $I_{NaV1.5}$ current and mechanosensitivity. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, G494-G503.	1.6	40
26	Whole Cell Electrophysiology of Primary Cultured Murine Enterochromaffin Cells. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	4
27	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.	3.3	174
28	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.	0.6	1
29	The touchy business of gastrointestinal (GI) mechanosensitivity. <i>Brain Research</i> , 2018, 1693, 197-200.	1.1	16
30	In Pursuit of the Epithelial Mechanosensitivity Mechanisms. <i>Frontiers in Endocrinology</i> , 2018, 9, 804.	1.5	13
31	Piezo2 Mechanosensitive Ion Channel Role in Primary Enterochromaffin (EC) Cell Mechanosensitivity. <i>FASEB Journal</i> , 2018, 32, 868.3.	0.2	0
32	Mechanosensitive ion channel Piezo2 is inhibited by D-GsMTx4. <i>Channels</i> , 2017, 11, 245-253.	1.5	55
33	<i>TRPM8</i> polymorphisms associated with increased risk of IBS-C and IBS-M. <i>Gut</i> , 2017, 66, 1725-1727.	6.1	36
34	Human-derived gut microbiota modulates colonic secretion in mice by regulating 5-HT ₃ receptor expression via acetate production. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, G80-G87.	1.6	67
35	EAVK segment α -sequence confers Ca ²⁺ -dependent changes to the kinetics of full-length human Ano1. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, G572-G579.	1.6	6
36	XIVth Little Brain Big Brain: next-generation enteric neuroscience. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2017, 14, 135-136.	8.2	1

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37	Sodium channel NaV1.3 is important for enterochromaffin cell excitability and serotonin release. <i>Scientific Reports</i> , 2017, 7, 15650.	1.6	28
38	Mechanosensitive ion channel Piezo2 is important for enterochromaffin cell response to mechanical forces. <i>Journal of Physiology</i> , 2017, 595, 79-91.	1.3	121
39	Mechanosensory Signaling in Enterochromaffin Cells and 5-HT Release: Potential Implications for Gut Inflammation. <i>Frontiers in Neuroscience</i> , 2016, 10, 564.	1.4	65
40	Ion channelopathies in functional GI disorders. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, G581-G586.	1.6	40
41	Interleukin 10 Restores Gastric Emptying, Electrical Activity, and Interstitial Cells of Cajal Networks in Diabetic Mice. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 454-467.	2.3	23
42	39-Year-Old Man With Dysphagia. <i>Mayo Clinic Proceedings</i> , 2016, 91, 808-811.	1.4	0
43	A novel exon in the human Ca ²⁺ -activated Cl ⁻ channel Ano1 imparts greater sensitivity to intracellular Ca ²⁺ . <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, G743-G749.	1.6	13
44	Ranolazine inhibits voltage-gated mechanosensitive sodium channels in human colon circular smooth muscle cells. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, G506-G512.	1.6	26
45	Chronic passive venous congestion drives hepatic fibrogenesis via sinusoidal thrombosis and mechanical forces. <i>Hepatology</i> , 2015, 61, 648-659.	3.6	145
46	84-Year-Old Man With Night Sweats, Weight Loss, and Diarrhea. <i>Mayo Clinic Proceedings</i> , 2014, 89, 409-413.	1.4	0
47	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.	0.6	120
48	The bioelectrical basis and validity of gastrointestinal extracellular slow wave recordings. <i>Journal of Physiology</i> , 2013, 591, 4567-4579.	1.3	74
49	Ranolazine inhibits shear sensitivity of endogenous Na ⁺ current and spontaneous action potentials in HL-1 cells. <i>Channels</i> , 2012, 6, 457-462.	1.5	21
50	Membrane permeable local anesthetics modulate NaV1.5 mechanosensitivity. <i>Channels</i> , 2012, 6, 308-316.	1.5	20
51	Large Atrial Myxoma Causing Dynamic Obstruction of the Mitral Valve and Atrial Fibrillation. <i>Mayo Clinic Proceedings</i> , 2012, 87, e9.	1.4	3
52	Targeting ion channels for the treatment of gastrointestinal motility disorders. <i>Therapeutic Advances in Gastroenterology</i> , 2012, 5, 5-21.	1.4	64
53	Ranolazine Decreases Mechanosensitivity of the Voltage-Gated Sodium Ion Channel Na _V 1.5. <i>Circulation</i> , 2012, 125, 2698-2706.	1.6	70
54	Quantification of gastrointestinal sodium channelopathy. <i>Journal of Theoretical Biology</i> , 2012, 293, 41-48.	0.8	21

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55	Biophysically Based Modeling of the Interstitial Cells of Cajal: Current Status and Future Perspectives. <i>Frontiers in Physiology</i> , 2011, 2, 29.	1.3	47
56	Altered Expression of Ano1 Variants in Human Diabetic Gastroparesis. <i>Journal of Biological Chemistry</i> , 2011, 286, 13393-13403.	1.6	95
57	Mechanosensitivity of Na ^v 1.5, a voltage-sensitive sodium channel. <i>Journal of Physiology</i> , 2010, 588, 4969-4985.	1.3	155
58	Electromechanical coupling in the membranes of Shaker-transfected HEK cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6626-6631.	3.3	41
59	Microfabricated torsion levers optimized for low force and high-frequency operation in fluids. <i>Ultramicroscopy</i> , 2006, 106, 838-846.	0.8	17
60	Spatially Resolved Detection of Attomole Quantities of Organic Molecules Localized in Picoliter Vials Using Time-of-Flight Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 1999, 71, 3318-3324.	3.2	29