Arthur Beyder

List of Publications by Year
in descending order

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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	A population of gut epithelial enterochromaffin cells is mechanosensitive and requires Piezo2 to convert force into serotonin release. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7632-E7641.	3.3	174
2	Mechanosensitivity of Na_v1.5, a voltage-sensitive sodium channel. Journal of Physiology, 2010, 588, 4969-4985.	1.3	155
3	Chronic passive venous congestion drives hepatic fibrogenesis via sinusoidal thrombosis and mechanical forces. Hepatology, 2015, 61, 648-659.	3.6	145
4	Mechanical Stretch Increases Expression of CXCL1 in Liver Sinusoidal Endothelial Cells to Recruit Neutrophils, Generate Sinusoidal Microthombi, and Promote Portal Hypertension. Gastroenterology, 2019, 157, 193-209.e9.	0.6	134
5	Mechanosensitive ion channel Piezo2 is important for enterochromaffin cell response to mechanical forces. Journal of Physiology, 2017, 595, 79-91.	1.3	121
6	Loss-of-Function of the Voltage-Gated Sodium Channel NaV1.5 (Channelopathies) in Patients With Irritable Bowel Syndrome. Gastroenterology, 2014, 146, 1659-1668.	0.6	120
7	Neutrophil-induced genomic instability impedes resolution of inflammation and wound healing. Journal of Clinical Investigation, 2019, 129, 712-726.	3.9	117
8	Altered Expression of Ano1 Variants in Human Diabetic Gastroparesis. Journal of Biological Chemistry, 2011, 286, 13393-13403.	1.6	95
9	The bioelectrical basis and validity of gastrointestinal extracellular slow wave recordings. Journal of Physiology, 2013, 591, 4567-4579.	1.3	74
10	Ranolazine Decreases Mechanosensitivity of the Voltage-Gated Sodium Ion Channel Na _V 1.5. Circulation, 2012, 125, 2698-2706.	1.6	70
11	Human-derived gut microbiota modulates colonic secretion in mice by regulating 5-HT₃ receptor expression via acetate production. American Journal of Physiology - Renal Physiology, 2017, 313, G80-G87.	1.6	67
12	Mechanosensory Signaling in Enterochromaffin Cells and 5-HT Release: Potential Implications for Gut Inflammation. Frontiers in Neuroscience, 2016, 10, 564.	1.4	65
13	Targeting ion channels for the treatment of gastrointestinal motility disorders. Therapeutic Advances in Gastroenterology, 2012, 5, 5-21.	1.4	64
14	Mechanosensitive ion channel Piezo2 is inhibited by D-GsMTx4. Channels, 2017, 11, 245-253.	1.5	55
15	Gut feelings: mechanosensing in the gastrointestinal tract. Nature Reviews Gastroenterology and Hepatology, 2022, 19, 283-296.	8.2	52
16	Biophysically Based Modeling of the Interstitial Cells of Cajal: Current Status and Future Perspectives. Frontiers in Physiology, 2011, 2, 29.	1.3	47
17	Specialized Mechanosensory Epithelial Cells in Mouse Gut Intrinsic Tactile Sensitivity. Gastroenterology, 2022, 162, 535-547.e13.	0.6	44
18	Electromechanical coupling in the membranes of Shaker-transfected HEK cells. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6626-6631.	3.3	41

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19	Ion channelopathies in functional GI disorders. American Journal of Physiology - Renal Physiology, 2016, 311, G581-G586.	1.6	40
20	Irritable bowel syndrome patients haveSCN5Achannelopathies that lead to decreased Na_V1.5 current and mechanosensitivity. American Journal of Physiology - Renal Physiology, 2018, 314, G494-G503.	1.6	40
21	TRPM8polymorphisms associated with increased risk of IBS-C and IBS-M. Gut, 2017, 66, 1725-1727.	6.1	36
22	Spatially Resolved Detection of Attomole Quantities of Organic Molecules Localized in Picoliter Vials Using Time-of-Flight Secondary Ion Mass Spectrometry. Analytical Chemistry, 1999, 71, 3318-3324.	3.2	29
23	Sodium channel NaV1.3 is important for enterochromaffin cell excitability and serotonin release. Scientific Reports, 2017, 7, 15650.	1.6	28
24	Ranolazine inhibits voltage-gated mechanosensitive sodium channels in human colon circular smooth muscle cells. American Journal of Physiology - Renal Physiology, 2015, 309, G506-G512.	1.6	26
25	Interleukin 10 Restores Gastric Emptying, Electrical Activity, andÂInterstitial Cells of Cajal Networks in Diabetic Mice. Cellular and Molecular Gastroenterology and Hepatology, 2016, 2, 454-467.	2.3	23
26	Mechanotransduction in gastrointestinal smooth muscle cells: role of mechanosensitive ion channels. American Journal of Physiology - Renal Physiology, 2021, 320, G897-G906.	1.6	22
27	Ranolazine inhibits shear sensitivity of endogenous Na⁺current and spontaneous action potentials in HL-1 cells. Channels, 2012, 6, 457-462.	1.5	21
28	Quantification of gastrointestinal sodium channelopathy. Journal of Theoretical Biology, 2012, 293, 41-48.	0.8	21
29	Genome-wide analysis of 944 133 individuals provides insights into the etiology of haemorrhoidal disease. Gut, 2021, 70, 1538-1549.	6.1	21
30	Membrane permeable local anesthetics modulate NaV1.5 mechanosensitivity. Channels, 2012, 6, 308-316.	1.5	20
31	microRNA overexpression in slow transit constipation leads to reduced Na_V1.5 current and altered smooth muscle contractility. Gut, 2020, 69, 868-876.	6.1	18
32	Microfabricated torsion levers optimized for low force and high-frequency operation in fluids. Ultramicroscopy, 2006, 106, 838-846.	0.8	17
33	The touchy business of gastrointestinal (GI) mechanosensitivity. Brain Research, 2018, 1693, 197-200.	1.1	16
34	Gastric ablation as a novel technique for modulating electrical conduction in the in vivo stomach. American Journal of Physiology - Renal Physiology, 2021, 320, G573-G585.	1.6	15
35	SCN5A mutation G615E results in Na_V1.5 voltage-gated sodium channels with normal voltage-dependent function yet loss of mechanosensitivity. Channels, 2019, 13, 287-298.	1.5	14
36	NACHO and 14-3-3 promote expression of distinct subunit stoichiometries of the Î±4Î²2 acetylcholine receptor. Cellular and Molecular Life Sciences, 2021, 78, 1565-1575.	2.4	14

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37	A novel exon in the human Ca²⁺-activated Cl^{â”} channel Ano1 imparts greater sensitivity to intracellular Ca²⁺. American Journal of Physiology - Renal Physiology, 2015, 309, G743-G749.	1.6	13
38	In Pursuit of the Epithelial Mechanosensitivity Mechanisms. Frontiers in Endocrinology, 2018, 9, 804.	1.5	13
39	Identification of intrinsic primary afferent neurons in mouse jejunum. Neurogastroenterology and Motility, 2020, 32, e13989.	1.6	11
40	Targeted ablation of gastric pacemaker sites to modulate patterns of bioelectrical slow wave activation and propagation in an anesthetized pig model. American Journal of Physiology - Renal Physiology, 2022, 322, G431-G445.	1.6	10
41	A simple automated approach to measure mouse whole gut transit. Neurogastroenterology and Motility, 2021, 33, e13994.	1.6	7
42	EAVK segment â€œcâ€•sequence confers Ca²⁺-dependent changes to the kinetics of full-length human Ano1. American Journal of Physiology - Renal Physiology, 2017, 312, G572-G579.	1.6	6
43	Whole Cell Electrophysiology of Primary Cultured Murine Enterochromaffin Cells. Journal of Visualized Experiments, 2018, , .	0.2	4
44	Large Atrial Myxoma Causing Dynamic Obstruction of the Mitral Valve and Atrial Fibrillation. Mayo Clinic Proceedings, 2012, 87, e9.	1.4	3
45	Telocytes express <scp>ANO</scp>â€1â€encoded chloride channels in canine ventricular myocardium. Journal of Arrhythmia, 2019, 35, 515-521.	0.5	3
46	Capsaicin as an amphipathic modulator of Na_V1.5 mechanosensitivity. Channels, 2022, 16, 9-26.	1.5	3
47	XIVth Little Brain Big Brain: next-generation enteric neuroscience. Nature Reviews Gastroenterology and Hepatology, 2017, 14, 135-136.	8.2	1
48	Gut development on a full stomach. Nature Reviews Gastroenterology and Hepatology, 2018, 15, 394-395.	8.2	1
49	Tu1268 - IBS-Associated Scn5A Mutation G615E Results in Nav1.5 Voltage-Dependent Sodium Channels with Normal Voltage-Dependent Function and Loss of Mechanosensitivity. Gastroenterology, 2018, 154, S-920.	0.6	1
50	Enteric Glial Networks Visualized using SOX10 Fluorescent Reporter in Opticallyâ€Cleared Full Thickness Intestinal Tissues. FASEB Journal, 2020, 34, 1-1.	0.2	1
51	The Tâ€type Voltage Gated Calcium Channel Cav3.2 is Important for Enteroendocrine Cell Mechanotransduction. FASEB Journal, 2019, 33, 601.4.	0.2	1
52	Bacteriaâ€Derived Hypoxanthine Accelerates Gastrointestinal Transit. FASEB Journal, 2022, 36, .	0.2	1
53	84-Year-Old Man With Night Sweats, Weight Loss, and Diarrhea. Mayo Clinic Proceedings, 2014, 89, 409-413.	1.4	0
54	39-Year-Old Man With Dysphagia. Mayo Clinic Proceedings, 2016, 91, 808-811.	1.4	0

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55	47-Year-Old Man With Abdominal Pain and Diarrhea. Mayo Clinic Proceedings, 2018, 93, e1-e6.	1.4	0
56	TRPPing up bronchiectasis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L464-L465.	1.3	0
57	Piezo2 Mechanosensitive Ion Channel Role in Primary Enterochromaffin (EC) Cell Mechanosensitivity. FASEB Journal, 2018, 32, 868.3.	0.2	0
58	Epithelial Mechanosensitive Ion Channel Piezo2 Contributes to Pressureâ€Induced Epithelial Chloride Secretion in Mouse Colon. FASEB Journal, 2020, 34, 1-1.	0.2	0
59	Studying Murine Small Bowel Mechanosensing of Luminal Particulates. Journal of Visualized Experiments, 2022, , .	0.2	0
60	LEtS set the tone. Journal of Physiology, 2022, 600, 2541-2542.	1.3	0