

Sang Don Koh

List of Publications by Year in descending order

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50
papers

2,343
citations

236925

25
h-index

233421

45
g-index

53
all docs

53
docs citations

53
times ranked

1774
citing authors

#	ARTICLE	IF	CITATIONS
1	Interstitial Cells: Regulators of Smooth Muscle Function. <i>Physiological Reviews</i> , 2014, 94, 859-907.	28.8	365
2	Spontaneous electrical rhythmicity in cultured interstitial cells of Cajal from the murine small intestine. <i>Journal of Physiology</i> , 1998, 513, 203-213.	2.9	247
3	A Ca ²⁺ -activated Cl ⁻ conductance in interstitial cells of Cajal linked to slow wave currents and pacemaker activity. <i>Journal of Physiology</i> , 2009, 587, 4905-4918.	2.9	234
4	A Ca ²⁺ -inhibited nonselective cation conductance contributes to pacemaker currents in mouse interstitial cell of Cajal. <i>Journal of Physiology</i> , 2002, 540, 803-814.	2.9	134
5	Important role of mucosal serotonin in colonic propulsion and peristaltic reflexes: <i>in vitro</i> analyses in mice lacking tryptophan hydroxylase 1. <i>Journal of Physiology</i> , 2013, 591, 5939-5957.	2.9	127
6	Anoctamins and gastrointestinal smooth muscle excitability. <i>Experimental Physiology</i> , 2012, 97, 200-206.	2.0	93
7	Platelet-derived growth factor receptor- α -positive cells and not smooth muscle cells mediate purinergic hyperpolarization in murine colonic muscles. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C561-C570.	4.6	77
8	Purinergic activation of spontaneous transient outward currents in guinea pig taenia colonic myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 278, C352-C362.	4.6	71
9	Muscarinic activation of Ca ²⁺ -activated Cl ⁻ current in interstitial cells of Cajal. <i>Journal of Physiology</i> , 2011, 589, 4565-4582.	2.9	71
10	Intracellular Ca ²⁺ release from endoplasmic reticulum regulates slow wave currents and pacemaker activity of interstitial cells of Cajal. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 308, C608-C620.	4.6	65
11	Stretch-dependent potassium channels in murine colonic smooth muscle cells. <i>Journal of Physiology</i> , 2001, 533, 155-163.	2.9	60
12	Ionic conductances regulating the excitability of colonic smooth muscles. <i>Neurogastroenterology and Motility</i> , 2012, 24, 705-718.	3.0	49
13	Regulation of pacemaker currents in interstitial cells of Cajal from murine small intestine by cyclic nucleotides. <i>Journal of Physiology</i> , 2000, 527, 149-162.	2.9	48
14	Novel regulation of the A-type K ⁺ current in murine proximal colon by calcium-calmodulin-dependent protein kinase II. <i>Journal of Physiology</i> , 1999, 517, 75-84.	2.9	44
15	The cells and conductance mediating cholinergic neurotransmission in the murine proximal stomach. <i>Journal of Physiology</i> , 2018, 596, 1549-1574.	2.9	42
16	Novel voltage-dependent nonselective cation conductance in murine colonic myocytes. <i>Journal of Physiology</i> , 2001, 533, 341-355.	2.9	41
17	A model of the enteric neural circuitry underlying the generation of rhythmic motor patterns in the colon: the role of serotonin. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, G1-G14.	3.4	40
18	Calcium signalling in Cajal-like interstitial cells of the lower urinary tract. <i>Nature Reviews Urology</i> , 2014, 11, 555-564.	3.8	38

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19	The Piezo2 ion channel is mechanically activated by low-threshold positive pressure. <i>Scientific Reports</i> , 2019, 9, 6446.	3.3	33
20	Inward rectifier potassium conductance regulates membrane potential of canine colonic smooth muscle. <i>Journal of Physiology</i> , 1999, 518, 247-256.	2.9	32
21	Small conductance Ca ²⁺ -activated K ⁺ channels are regulated by Ca ²⁺ -calmodulin-dependent protein kinase II in murine colonic myocytes. <i>Journal of Physiology</i> , 2000, 524, 331-337.	2.9	32
22	Regulation of ATP-sensitive K ⁺ channels by protein kinase C in murine colonic myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 281, C857-C864.	4.6	31
23	Molecular identification of a component of delayed rectifier current in gastrointestinal smooth muscles. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 274, G901-G911.	3.4	30
24	Na ⁺ -K ⁺ -Cl ⁻ cotransporter (NKCC) maintains the chloride gradient to sustain pacemaker activity in interstitial cells of Cajal. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, G1037-G1046.	3.4	30
25	Influence of intracellular Ca ²⁺ and alternative splicing on the pharmacological profile of ANO1 channels. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 311, C437-C451.	4.6	28
26	Premature contractions of the bladder are suppressed by interactions between TRPV4 and SK3 channels in murine detrusor PDGFR α cells. <i>Scientific Reports</i> , 2017, 7, 12245.	3.3	27
27	The Mystery of the Interstitial Cells in the Urinary Bladder. <i>Annual Review of Pharmacology and Toxicology</i> , 2018, 58, 603-623.	9.4	27
28	Molecular and functional characterization of inwardly rectifying K ⁺ currents in murine proximal colon. <i>Journal of Physiology</i> , 2018, 596, 379-391.	2.9	27
29	Responses to Enteric Motor Neurons in the Gastric Fundus of Mice With Reduced Intramuscular Interstitial Cells of Cajal. <i>Journal of Neurogastroenterology and Motility</i> , 2014, 20, 171-184.	2.4	25
30	SOCE mediated by STIM and Orai is essential for pacemaker activity in the interstitial cells of Cajal in the gastrointestinal tract. <i>Science Signaling</i> , 2018, 11, .	3.6	23
31	Conductances responsible for slow wave generation and propagation in interstitial cells of Cajal. <i>Current Opinion in Pharmacology</i> , 2003, 3, 579-582.	3.5	20
32	Na ⁺ /Ca ²⁺ Exchange and Pacemaker Activity of Interstitial Cells of Cajal. <i>Frontiers in Physiology</i> , 2020, 11, 230.	2.8	18
33	A novel postsynaptic signal pathway of sympathetic neural regulation of murine colonic motility. <i>FASEB Journal</i> , 2020, 34, 5563-5577.	0.5	16
34	Identification and classification of interstitial cells in the mouse renal pelvis. <i>Journal of Physiology</i> , 2020, 598, 3283-3307.	2.9	14
35	Ionic Conductance(s) in Response to Post-junctional Potentials. <i>Journal of Neurogastroenterology and Motility</i> , 2013, 19, 426-432.	2.4	13
36	UTP activates small-conductance Ca ²⁺ -activated K ⁺ channels in murine detrusor PDGFR α cells. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F569-F574.	2.7	13

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37	Na-K-2Cl Cotransporter and Store-Operated Ca ²⁺ Entry in Pacemaking by Interstitial Cells of Cajal. <i>Biophysical Journal</i> , 2019, 117, 767-779.	0.5	13
38	Urothelial purine release during filling of murine and primate bladders. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, F708-F716.	2.7	12
39	Propulsive colonic contractions are mediated by inhibition-driven poststimulus responses that originate in interstitial cells of Cajal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2123020119.	7.1	11
40	Ca ²⁺ signalling in interstitial cells of Cajal contributes to generation and maintenance of tone in mouse and monkey lower oesophageal sphincters. <i>Journal of Physiology</i> , 2022, 600, 2613-2636.	2.9	8
41	Expression of Alpha-type Platelet-derived Growth Factor Receptor- α -influenced Genes Predicts Clinical Outcome in Glioma. <i>Translational Oncology</i> , 2020, 13, 233-240.	3.7	4
42	The functional role of protease-activated receptors on contractile responses by activation of Ca ²⁺ sensitization pathways in simian colonic muscles. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, G921-G931.	3.4	3
43	Stretch-Activated Conductances in Smooth Muscles. <i>Current Topics in Membranes</i> , 2007, 59, 511-540.	0.9	2
44	Reply to O'Grady et al.. <i>Physiological Reviews</i> , 2015, 95, 693-694.	28.8	2
45	Molecular and functional characterization of detrusor PDGFR β positive cells in spinal cord injury-induced detrusor overactivity. <i>Scientific Reports</i> , 2021, 11, 16268.	3.3	2
46	Role of detrusor PDGFR β cells in mouse model of cyclophosphamide-induced detrusor overactivity. <i>Scientific Reports</i> , 2022, 12, 5071.	3.3	1
47	Low-voltage activated (LVA) inward current in murine antral smooth muscle cells is an artifact. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C966-C973.	4.6	0
48	Characterization of the A-type potassium current in murine gastric fundus smooth muscles. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C684-C693.	4.6	0
49	The effect of mitochondrial inhibitors on Ca ²⁺ signalling and pacemaking conductances in interstitial cells of Cajal in the mouse small intestine. <i>FASEB Journal</i> , 2018, 32, 764.3.	0.5	0
50	Elucidating the physiological role of platelet-derived growth factor receptor- α cells and characterization of ANO1 in the murine upper urinary tract.. <i>FASEB Journal</i> , 2018, 32, 770.15.	0.5	0