

Ole Holger Petersen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97 papers	9,151 citations	47 h-index	95 g-index
113 ext. papers	10,942 ext. citations	9.9 avg, IF	6.03 L-index

#	Paper	IF	Citations
97	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>PLoS Biology</i> , 2020 , 18, e3000410	9.7	757
96	Calcium-activated potassium channels and their role in secretion. <i>Nature</i> , 1984 , 307, 693-6	50.4	637
95	Local and global cytosolic Ca ²⁺ oscillations in exocrine cells evoked by agonists and inositol trisphosphate. <i>Cell</i> , 1993 , 74, 661-8	56.2	463
94	Reporting animal research: Explanation and elaboration for the ARRIVE guidelines 2.0. <i>PLoS Biology</i> , 2020 , 18, e3000411	9.7	352
93	ATP-dependent accumulation and inositol trisphosphate- or cyclic ADP-ribose-mediated release of Ca ²⁺ from the nuclear envelope. <i>Cell</i> , 1995 , 80, 439-44	56.2	345
92	Pulsatile intracellular calcium release does not depend on fluctuations in inositol trisphosphate concentration. <i>Nature</i> , 1989 , 339, 317-20	50.4	332
91	Spatial dynamics of second messengers: IP3 and cAMP as long-range and associative messengers. <i>Trends in Neurosciences</i> , 1994 , 17, 95-101	13.3	274
90	Receptor-activated cytoplasmic Ca ²⁺ spiking mediated by inositol trisphosphate is due to Ca ²⁺ (+)-induced Ca ²⁺ release. <i>Cell</i> , 1990 , 63, 1025-32	56.2	257
89	Ca ²⁺ flow via tunnels in polarized cells: recharging of apical Ca ²⁺ stores by focal Ca ²⁺ entry through basal membrane patch. <i>Cell</i> , 1997 , 88, 49-55	56.2	248
88	Polarized calcium signaling in exocrine gland cells. <i>Annual Review of Physiology</i> , 2008 , 70, 273-99	23.1	232
87	Inositol trisphosphate and cyclic ADP-ribose-mediated release of Ca ²⁺ from single isolated pancreatic zymogen granules. <i>Cell</i> , 1996 , 84, 473-80	56.2	217
86	Calcium uptake via endocytosis with rapid release from acidifying endosomes. <i>Current Biology</i> , 1998 , 8, 1335-8	6.3	213
85	NAADP mobilizes Ca ²⁺ from a thapsigargin-sensitive store in the nuclear envelope by activating ryanodine receptors. <i>Journal of Cell Biology</i> , 2003 , 163, 271-82	7.3	202
84	Fatty acid ethyl esters cause pancreatic calcium toxicity via inositol trisphosphate receptors and loss of ATP synthesis. <i>Gastroenterology</i> , 2006 , 130, 781-93	13.3	194
83	Calcium signalling: past, present and future. <i>Cell Calcium</i> , 2005 , 38, 161-9	4	183
82	Intraluminal calcium as a primary regulator of endoplasmic reticulum function. <i>Cell Calcium</i> , 2005 , 38, 303-10	4	179
81	Calcium elevation in mitochondria is the main Ca ²⁺ requirement for mitochondrial permeability transition pore (mPTP) opening. <i>Journal of Biological Chemistry</i> , 2009 , 284, 20796-803	5.4	170

80	Ethanol toxicity in pancreatic acinar cells: mediation by nonoxidative fatty acid metabolites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10738-43	11.5	160
79	Transformation of local Ca ²⁺ spikes to global Ca ²⁺ transients: the combinatorial roles of multiple Ca ²⁺ releasing messengers. <i>EMBO Journal</i> , 2002 , 21, 909-19	13	153
78	The endoplasmic reticulum: one continuous or several separate Ca(2+) stores?. <i>Trends in Neurosciences</i> , 2001 , 24, 271-6	13.3	141
77	NAADP, cADPR and IP ₃ all release Ca ²⁺ from the endoplasmic reticulum and an acidic store in the secretory granule area. <i>Journal of Cell Science</i> , 2006 , 119, 226-38	5.3	133
76	Reactive oxygen species induced by bile acid induce apoptosis and protect against necrosis in pancreatic acinar cells. <i>Gastroenterology</i> , 2011 , 140, 2116-25	13.3	129
75	Activation of trypsinogen in large endocytic vacuoles of pancreatic acinar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 5674-9	11.5	125
74	Ca ²⁺ signalling and pancreatitis: effects of alcohol, bile and coffee. <i>Trends in Pharmacological Sciences</i> , 2006 , 27, 113-20	13.2	123
73	Bile acids induce calcium signals in mouse pancreatic acinar cells: implications for bile-induced pancreatic pathology. <i>Journal of Physiology</i> , 2002 , 540, 49-55	3.9	121
72	Ca ²⁺ release-activated Ca ²⁺ channel blockade as a potential tool in antipancreatitis therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13186-91	11.5	118
71	Menadione-induced apoptosis: roles of cytosolic Ca(2+) elevations and the mitochondrial permeability transition pore. <i>Journal of Cell Science</i> , 2002 , 115, 485-97	5.3	115
70	Mechanism of mitochondrial permeability transition pore induction and damage in the pancreas: inhibition prevents acute pancreatitis by protecting production of ATP. <i>Gut</i> , 2016 , 65, 1333-46	19.2	110
69	Bile acids induce Ca ²⁺ release from both the endoplasmic reticulum and acidic intracellular calcium stores through activation of inositol trisphosphate receptors and ryanodine receptors. <i>Journal of Biological Chemistry</i> , 2006 , 281, 40154-63	5.4	110
68	Direct activation of cytosolic Ca ²⁺ signaling and enzyme secretion by cholecystokinin in human pancreatic acinar cells. <i>Gastroenterology</i> , 2008 , 135, 632-41	13.3	107
67	Ribosome-free terminals of rough ER allow formation of STIM1 puncta and segregation of STIM1 from IP(3) receptors. <i>Current Biology</i> , 2009 , 19, 1648-53	6.3	104
66	Dynamic changes in cytosolic and mitochondrial ATP levels in pancreatic acinar cells. <i>Gastroenterology</i> , 2010 , 138, 1976-87	13.3	101
65	Fatty acid ethyl ester synthase inhibition ameliorates ethanol-induced Ca ²⁺ -dependent mitochondrial dysfunction and acute pancreatitis. <i>Gut</i> , 2014 , 63, 1313-24	19.2	97
64	The role of Ca ²⁺ in the pathophysiology of pancreatitis. <i>Journal of Physiology</i> , 2014 , 592, 269-80	3.9	92
63	Ca ²⁺ signalling and Ca ²⁺ -activated ion channels in exocrine acinar cells. <i>Cell Calcium</i> , 2005 , 38, 171-200	4	89

62	Pancreatic protease activation by alcohol metabolite depends on Ca ²⁺ release via acid store IP ₃ receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 10758-63	11.5	86
61	Generation of specific Ca(2+) signals from Ca(2+) stores and endocytosis by differential coupling to messengers. <i>Current Biology</i> , 2006 , 16, 1931-7	6.3	73
60	Calcium binding capacity of the cytosol and endoplasmic reticulum of mouse pancreatic acinar cells. <i>Journal of Physiology</i> , 1999 , 518 (Pt 2), 463-7	3.9	72
59	The exocrine pancreas: the acinar-ductal tango in physiology and pathophysiology. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2013 , 165, 1-30	2.9	69
58	Localization of Ca ²⁺ extrusion sites in pancreatic acinar cells. <i>Journal of Biological Chemistry</i> , 1996 , 271, 7615-9	5.4	65
57	Localized Ca ²⁺ uncaging reveals polarized distribution of Ca ²⁺ -sensitive Ca ²⁺ release sites: mechanism of unidirectional Ca ²⁺ waves. <i>Journal of Cell Biology</i> , 2002 , 158, 283-92	7.3	64
56	Caffeine protects against experimental acute pancreatitis by inhibition of inositol 1,4,5-trisphosphate receptor-mediated Ca ²⁺ release. <i>Gut</i> , 2017 , 66, 301-313	19.2	57
55	From Galvani to patch clamp: the development of electrophysiology. <i>Pflügers Archiv European Journal of Physiology</i> , 2006 , 453, 233-47	4.6	55
54	Region-specific activity of the plasma membrane Ca ²⁺ pump and delayed activation of Ca ²⁺ entry characterize the polarized, agonist-evoked Ca ²⁺ signals in exocrine cells. <i>Journal of Biological Chemistry</i> , 1995 , 270, 8528-35	5.4	54
53	Human pancreatic acinar cells: studies of stimulus-secretion coupling. <i>Gastroenterology</i> , 1985 , 89, 109-17	13.3	52
52	Localization and regulation of Ca ²⁺ entry and exit pathways in exocrine gland cells. <i>Cell Calcium</i> , 2003 , 33, 337-44	4	48
51	Non-uniform distribution of mitochondria in pancreatic acinar cells. <i>Cell and Tissue Research</i> , 2003 , 313, 37-45	4.2	46
50	Short pulses of acetylcholine stimulation induce cytosolic Ca ²⁺ signals that are excluded from the nuclear region in pancreatic acinar cells. <i>Pflügers Archiv European Journal of Physiology</i> , 1996 , 432, 1055-61	4.6	46
49	Calcium-dependent release of NO from intracellular S-nitrosothiols. <i>EMBO Journal</i> , 2006 , 25, 3024-32	13	45
48	Control of K ⁺ conductance by cholecystokinin and Ca ²⁺ in single pancreatic acinar cells studied by the patch-clamp technique. <i>Journal of Membrane Biology</i> , 1984 , 79, 293-8	2.3	44
47	Both RyRs and TPCs are required for NAADP-induced intracellular Ca ²⁺ release. <i>Cell Calcium</i> , 2015 , 58, 237-45	4	41
46	Long distance communication between muscarinic receptors and Ca ²⁺ release channels revealed by carbachol uncaging in cell-attached patch pipette. <i>Journal of Biological Chemistry</i> , 2003 , 278, 20860-4	5.4	40
45	Calmodulin protects against alcohol-induced pancreatic trypsinogen activation elicited via Ca ²⁺ release through IP ₃ receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 5873-8	11.5	39

44	Ca tunnelling through the ER lumen as a mechanism for delivering Ca entering via store-operated Ca channels to specific target sites. <i>Journal of Physiology</i> , 2017 , 595, 2999-3014	3.9	37
43	Ca(2+) signals mediated by bradykinin type 2 receptors in normal pancreatic stellate cells can be inhibited by specific Ca(2+) channel blockade. <i>Journal of Physiology</i> , 2016 , 594, 281-93	3.9	36
42	Cation channels: homing in on the elusive CAN channels. <i>Current Biology</i> , 2002 , 12, R520-2	6.3	34
41	A novel role for Bcl-2 in regulation of cellular calcium extrusion. <i>Current Biology</i> , 2012 , 22, 1241-6	6.3	33
40	Bile acids induce a cationic current, depolarizing pancreatic acinar cells and increasing the intracellular Na ⁺ concentration. <i>Journal of Biological Chemistry</i> , 2005 , 280, 1764-70	5.4	33
39	The effect of Na ⁺ and Cl ⁻ removal and of loop diuretics on acetylcholine-evoked membrane potential changes in mouse lacrimal acinar cells. <i>Quarterly Journal of Experimental Physiology (Cambridge, England)</i> , 1985 , 70, 437-45		33
38	Stimulus-excitation coupling in plasma membranes of pancreatic acinar cells. <i>BBA - Biomembranes</i> , 1982 , 694, 163-84		33
37	Calcium and ATP control multiple vital functions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	29
36	Nitric oxide signals are interlinked with calcium signals in normal pancreatic stellate cells upon oxidative stress and inflammation. <i>Open Biology</i> , 2016 , 6,	7	28
35	Bile acids induce necrosis in pancreatic stellate cells dependent on calcium entry and sodium-driven bile uptake. <i>Journal of Physiology</i> , 2016 , 594, 6147-6164	3.9	26
34	Cholecystokinin-58 and cholecystokinin-8 exhibit similar actions on calcium signaling, zymogen secretion, and cell fate in murine pancreatic acinar cells. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, G1085-92	5.1	24
33	Morphological and functional changes of dissociated single pancreatic acinar cells: testing the suitability of the single cell as a model for exocytosis and calcium signaling. <i>Cell Calcium</i> , 2004 , 35, 367-74		24
32	Calcium signalling in the acinar environment of the exocrine pancreas: physiology and pathophysiology. <i>Journal of Physiology</i> , 2018 , 596, 2663-2678	3.9	22
31	Calcium and adenosine triphosphate control of cellular pathology: asparaginase-induced pancreatitis elicited via protease-activated receptor 2. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	22
30	Endocytic uptake of SARS-CoV-2: the critical roles of pH, Ca ²⁺ , and NAADP. <i>Function</i> , 2020 , 1,	6.1	20
29	Revision of the ARRIVE guidelines: rationale and scope. <i>BMJ Open Science</i> , 2018 , 2, e000002	4.6	20
28	Specific mitochondrial functions in separate sub-cellular domains of pancreatic acinar cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2012 , 464, 77-87	4.6	18
27	Pathobiology of acute pancreatitis: focus on intracellular calcium and calmodulin. <i>F1000 Medicine Reports</i> , 2011 , 3, 15		18

26	High versus low energy administration in the early phase of acute pancreatitis (GOULASH trial): protocol of a multicentre randomised double-blind clinical trial. <i>BMJ Open</i> , 2017 , 7, e015874	3	17
25	Galactose protects against cell damage in mouse models of acute pancreatitis. <i>Journal of Clinical Investigation</i> , 2018 , 128, 3769-3778	15.9	16
24	Ca ²⁺ signalling in the endoplasmic reticulum/secretory granule microdomain. <i>Cell Calcium</i> , 2015 , 58, 397-404	4	15
23	Calcium signalling in pancreatic stellate cells: Mechanisms and potential roles. <i>Cell Calcium</i> , 2016 , 59, 140-4	4	15
22	Early Elimination of Fatty Acids in hypertriglyceridemia-induced acute pancreatitis (ELEFANT trial): Protocol of an open-label, multicenter, adaptive randomized clinical trial. <i>Pancreatology</i> , 2020 , 20, 369-376	3.8	15
21	The roles of calcium and ATP in the physiology and pathology of the exocrine pancreas. <i>Physiological Reviews</i> , 2021 , 101, 1691-1744	47.9	14
20	ABT-199 (Venetoclax), a BH3-mimetic Bcl-2 inhibitor, does not cause Ca ²⁺ -signalling dysregulation or toxicity in pancreatic acinar cells. <i>British Journal of Pharmacology</i> , 2019 , 176, 4402-4415	8.6	10
19	Academia Europaea Position Paper on Translational Medicine: The Cycle Model for Translating Scientific Results into Community Benefits. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	9
18	BH3 mimetic-elicited Ca signals in pancreatic acinar cells are dependent on Bax and can be reduced by Ca-like peptides. <i>Cell Death and Disease</i> , 2017 , 8, e2640	9.8	8
17	Monitoring of intra-ER free Ca ²⁺ . <i>Environmental Sciences Europe</i> , 2014 , 3, 63-71	5	6
16	BH4 domain peptides derived from Bcl-2/Bcl-XL as novel tools against acute pancreatitis. <i>Cell Death Discovery</i> , 2018 , 4, 58	6.9	4
15	The effects of Ca buffers on cytosolic Ca signalling. <i>Journal of Physiology</i> , 2017 , 595, 3107-3108	3.9	3
14	current acute pancreatitis prevention by the elimination of alcohol and cigarette smoking (REAPPEAR): protocol of a randomised controlled trial and a cohort study.. <i>BMJ Open</i> , 2022 , 12, e050821	3	3
13	Calcium Signaling in Pancreatic Immune Cells .. <i>Function</i> , 2021 , 2, zqaa026	6.1	3
12	One or Two Ca Stores in the Neuronal Endoplasmic Reticulum?. <i>Trends in Neurosciences</i> , 2019 , 42, 755-757	5.3	2
11	SARS-CoV-2 S Protein Subunit 1 Elicits Ca Influx - Dependent Ca Signals in Pancreatic Stellate Cells and Macrophages .. <i>Function</i> , 2022 , 3, zqac002	6.1	2
10	Physiology of Acinar Cell Secretion 2018 , 41-55		1
9	Is CD38 involved in Ca signalling elicited by activation of T cell receptors?. <i>Cell Calcium</i> , 2021 , 101, 102524	4	1

8	Electrophysiology of Exocrine Gland Cells. <i>Bioelectricity</i> , 2022 , 4, 48-58	2	1
7	In Memoriam Sir Michael Berridge 1938 - 2020. <i>Cell Calcium</i> , 2020 , 88, 102209	4	0
6	Inequality of Research Funding between Different Countries and Regions is a Serious Problem for Global Science.. <i>Function</i> , 2021 , 2, zqab060	6.1	0
5	Bradykinin, COVID-19, and Pancreatitis, a Personal Perspective. <i>Function</i> , 2021 , 2, zqab046	6.1	0
4	Ups and Downs of Science during a Tumultuous Period of History: A Personal Perspective. <i>European Review</i> , 1-36	0.3	0
3	Do We Need a Different Debate About How to Manage Pandemics?. <i>Function</i> , 2022 , 3, zqab075	6.1	
2	Science and Scientific Advice in a Time of Crisis.. <i>Function</i> , 2020 , 1, zqaa025	6.1	
1	Editorial Statement.. <i>Function</i> , 2022 , 3, zqac014	6.1	