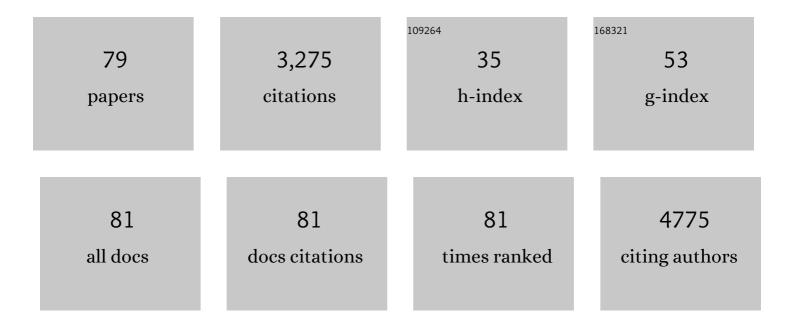
Peter Vangheluwe

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	ATP13A2 deficiency disrupts lysosomal polyamine export. Nature, 2020, 578, 419-424.	13.7	193
2	Modulating sarco(endo)plasmic reticulum Ca2+ ATPase 2 (SERCA2) activity: Cell biological implications. Cell Calcium, 2005, 38, 291-302.	1.1	177
3	The Ca2+ Pumps of the Endoplasmic Reticulum and Golgi Apparatus. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004184-a004184.	2.3	173
4	Loss-of-function mutations in the <i>ATP13A2/</i> PARK9 gene cause complicated hereditary spastic paraplegia (SPG78). Brain, 2017, 140, 287-305.	3.7	135
5	<i>LRRK2</i> mutations impair depolarization-induced mitophagy through inhibition of mitochondrial accumulation of RAB10. Autophagy, 2020, 16, 203-222.	4.3	124
6	Sarcolipin and phospholamban mRNA and protein expression in cardiac and skeletal muscle of different species. Biochemical Journal, 2005, 389, 151-159.	1.7	121
7	Necroptosis in Immuno-Oncology and Cancer Immunotherapy. Cells, 2020, 9, 1823.	1.8	109
8	Replacement of the Muscle-Specific Sarcoplasmic Reticulum Ca 2+ -ATPase Isoform SERCA2a by the Nonmuscle SERCA2b Homologue Causes Mild Concentric Hypertrophy and Impairs Contraction-Relaxation of the Heart. Circulation Research, 2001, 89, 838-846.	2.0	93
9	A novel approach to analyze lysosomal dysfunctions through subcellular proteomics and lipidomics: the case of NPC1 deficiency. Scientific Reports, 2017, 7, 41408.	1.6	93
10	A lipid switch unlocks Parkinson's disease-associated ATP13A2. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9040-9045.	3.3	87
11	Role of SIRT1 in Modulating Acetylation of the Sarco-Endoplasmic Reticulum Ca ²⁺ -ATPase in Heart Failure. Circulation Research, 2019, 124, e63-e80.	2.0	84
12	Intracellular Ca ²⁺ - and Mn ²⁺ -Transport ATPases. Chemical Reviews, 2009, 109, 4733-4759.	23.0	79
13	The lysosome as a master regulator of iron metabolism. Trends in Biochemical Sciences, 2021, 46, 960-975.	3.7	79
14	Cardiomyocyte Overexpression of Neuronal Nitric Oxide Synthase Delays Transition Toward Heart Failure in Response to Pressure Overload by Preserving Calcium Cycling. Circulation, 2008, 117, 3187-3198.	1.6	73
15	An autophagy-driven pathway of ATP secretion supports the aggressive phenotype of BRAF ^{V600E} inhibitor-resistant metastatic melanoma cells. Autophagy, 2017, 13, 1512-1527.	4.3	70
16	Cellular function and pathological role of ATP13A2 and related P-type transport ATPases in Parkinson's disease and other neurological disorders. Frontiers in Molecular Neuroscience, 2014, 7, 48.	1.4	68
17	Structural basis for the high Ca ²⁺ affinity of the ubiquitous SERCA2b Ca ²⁺ pump. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18533-18538.	3.3	67
18	Dyslipidaemia in type II diabetic mice does not aggravate contractile impairment but increases ventricular stiffness. Cardiovascular Research, 2008, 77, 371-379.	1.8	66

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19	Regulation of endoplasmic reticulum Ca2+ oscillations in mammalian eggs. Journal of Cell Science, 2013, 126, 5714-24.	1.2	64
20	Sarco(endo)plasmic Reticulum Calcium ATPase (SERCA) Inhibition by Sarcolipin Is Encoded in Its Luminal Tail. Journal of Biological Chemistry, 2013, 288, 8456-8467.	1.6	64
21	ATP13A2-mediated endo-lysosomal polyamine export counters mitochondrial oxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31198-31207.	3.3	57
22	New perspectives on the role of SERCA2's Ca2+ affinity in cardiac function. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1216-1228.	1.9	56
23	The Ca2+-activated cation channel TRPM4 is a negative regulator of angiotensin II-induced cardiac hypertrophy. Basic Research in Cardiology, 2015, 110, 43.	2.5	55
24	Primary Active Ca ²⁺ Transport Systems in Health and Disease. Cold Spring Harbor Perspectives in Biology, 2020, 12, a035113.	2.3	55
25	A SERCA2 pump with an increased Ca2+ affinity can lead to severe cardiac hypertrophy, stress intolerance and reduced life span. Journal of Molecular and Cellular Cardiology, 2006, 41, 308-317.	0.9	54
26	Sarcoplasmic reticulum calcium uptake and speed of relaxation are depressed in nebulinâ€free skeletal muscle. FASEB Journal, 2008, 22, 2912-2919.	0.2	54
27	ATP13A2/PARK9 regulates endo-/lysosomal cargo sorting and proteostasis through a novel PI(3,) Tj ETQq1 1 0.7	84314 rgB ⁻ 1.4	T /Qverlock 1
28	ATP13A3 is a major component of the enigmatic mammalian polyamine transport system. Journal of Biological Chemistry, 2021, 296, 100182.	1.6	48
29	Parkinson disease related ATP13A2 evolved early in animal evolution. PLoS ONE, 2018, 13, e0193228.	1.1	47
30	Mutated ATP10B increases Parkinson's disease risk by compromising lysosomal glucosylceramide export. Acta Neuropathologica, 2020, 139, 1001-1024.	3.9	46
31	Evaluation of manganese uptake and toxicity in mouse brain during continuous MnCl ₂ administration using osmotic pumps. Contrast Media and Molecular Imaging, 2012, 7, 426-434.	0.4	44
32	Factors controlling the activity of the SERCA2a pump in the normal and failing heart. BioFactors, 2009, 35, 484-499.	2.6	40
33	Towards defining the substrate of orphan P5A-ATPases. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 524-535.	1.1	40
34	Ca2+ transport ATPase isoforms SERCA2a and SERCA2b are targeted to the same sites in the murine heart. Cell Calcium, 2003, 34, 457-464.	1.1	39
35	BNIP3 promotes HIFâ€1αâ€driven melanoma growth by curbing intracellular iron homeostasis. EMBO Journal, 2021, 40, e106214.	3.5	38
36	Structures of the heart specific <scp>SERCA</scp> 2a Ca ²⁺ ― <scp>ATP</scp> ase. EMBO Journal, 2019, 38, .	3.5	37

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37	The secretory pathway Ca2+-ATPase 1 is associated with cholesterol-rich microdomains of human colon adenocarcinoma cells. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1512-1521.	1.4	30
38	SPCA2 couples Ca 2+ influx via Orai1 to Ca 2+ uptake into the Golgi/secretory pathway. Tissue and Cell, 2017, 49, 141-149.	1.0	28
39	Ca 2+ Uptake by the Sarcoplasmic Reticulum in Ventricular Myocytes of the SERCA2 b/b Mouse Is Impaired at Higher Ca 2+ Loads Only. Circulation Research, 2003, 92, 881-887.	2.0	26
40	The expression of the neonatal sarcoplasmic reticulum Ca2+ pump (SERCA1b) hints to a role in muscle growth and development. Cell Calcium, 2007, 41, 379-388.	1.1	26
41	Store-independent coupling between the Secretory Pathway Ca2+ transport ATPase SPCA1 and Orai1 in Colgi stress and Hailey-Hailey disease. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 855-862.	1.9	23
42	DPB162-AE, an inhibitor of store-operated Ca2+ entry, can deplete the endoplasmic reticulum Ca2+ store. Cell Calcium, 2017, 62, 60-70.	1.1	21
43	Structure/activity relationship of thapsigargin inhibition on the purified Golgi/secretory pathway Ca2+/Mn2+-transport ATPase (SPCA1a). Journal of Biological Chemistry, 2017, 292, 6938-6951.	1.6	20
44	CHCHD2 harboring Parkinson's disease-linked T61I mutation precipitates inside mitochondria and induces precipitation of wild-type CHCHD2. Human Molecular Genetics, 2020, 29, 1096-1106.	1.4	20
45	Increased phospholamban phosphorylation limits theÂforce–frequency response inÂtheÂMLP–/– mouse with heart failure. Journal of Molecular and Cellular Cardiology, 2006, 40, 350-360.	0.9	18
46	Transmembrane Helix 11 Is a Genuine Regulator of the Endoplasmic Reticulum Ca2+ Pump and Acts as a Functional Parallel of β-Subunit on α-Na+,K+-ATPase. Journal of Biological Chemistry, 2012, 287, 19876-19885.	1.6	18
47	Protection against Mitochondrial and Metal Toxicity Depends on Functional Lipid Binding Sites in ATP13A2. Parkinson's Disease, 2016, 2016, 1-11.	0.6	18
48	Dimethyl fumarate alters intracellular Ca2+ handling in immune cells by redox-mediated pleiotropic effects. Free Radical Biology and Medicine, 2019, 141, 338-347.	1.3	18
49	Ca2+ Induces Spontaneous Dephosphorylation of a Novel P5A-type ATPase. Journal of Biological Chemistry, 2012, 287, 28336-28348.	1.6	17
50	Distinct Roles of the C-terminal 11th Transmembrane Helix and Luminal Extension in the Partial Reactions Determining the High Ca2+ Affinity of Sarco(endo)plasmic Reticulum Ca2+-ATPase Isoform 2b (SERCA2b). Journal of Biological Chemistry, 2012, 287, 39460-39469.	1.6	17
51	ATP13A2 Regulates Cellular α-Synuclein Multimerization, Membrane Association, and Externalization. International Journal of Molecular Sciences, 2021, 22, 2689.	1.8	16
52	Tight interplay between the Ca2+ affinity of the cardiac SERCA2 Ca2+ pump and the SERCA2 expression level. Cell Calcium, 2007, 42, 281-289.	1.1	15
53	Targeting Sarcoplasmic Reticulum Ca ²⁺ Uptake to Improve Heart Failure. Circulation Research, 2010, 106, 230-233.	2.0	15
54	An N-terminal Ca2+-binding motif regulates the secretory pathway Ca2+/Mn2+-transport ATPase SPCA1. Journal of Biological Chemistry, 2019, 294, 7878-7891.	1.6	14

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55	Modeling Ca2+ Dynamics of Mouse Cardiac Cells Points to a Critical Role of SERCA's Affinity for Ca2+. Biophysical Journal, 2011, 100, 1216-1225.	0.2	12
56	Thapsigargin affinity purification of intracellular P2A-type Ca2+ ATPases. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 1118-1127.	1.9	11
57	Phospholamban ablation in hearts expressing the high affinity SERCA2b isoform normalizes global Ca ²⁺ homeostasis but not Ca ²⁺ -dependent hypertrophic signaling. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H2574-H2582.	1.5	11
58	Unlocking ATP13A2/PARK9 activity. Cell Cycle, 2015, 14, 3341-3342.	1.3	11
59	Foodâ€restriction in obese dyslipidaemic diabetic mice partially restores basal contractility but not contractile reserve. European Journal of Heart Failure, 2009, 11, 1118-1125.	2.9	10
60	Improving cardiac Ca2+ transport into the sarcoplasmic reticulum in heart failure: lessons from the ubiquitous SERCA2b Ca2+ pump. Biochemical Society Transactions, 2011, 39, 781-787.	1.6	10
61	The endoplasmic reticulum Ca ²⁺ â€ <scp>ATPase SERCA2b</scp> is upregulated in activated microglia and its inhibition causes opposite effects on migration and phagocytosis. Glia, 2021, 69, 842-857.	2.5	10
62	Inter-organellar Communication in Parkinson's and Alzheimer's Disease: Looking Beyond Endoplasmic Reticulum-Mitochondria Contact Sites. Frontiers in Neuroscience, 0, 16, .	1.4	10
63	Negative chronotropism, positive inotropism and lusitropism of 3,5-di-t-butyl-4-hydroxyanisole (DTBHA) on rat heart preparations occur through reduction of RyR2 Ca2+ leak. Biochemical Pharmacology, 2018, 155, 434-443.	2.0	9
64	High-Throughput Measurement of the Ca ²⁺ -Dependent ATPase Activity in COS Microsomes. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot076885.	0.2	8
65	Extracellular and ER-stored Ca2+ contribute to BIRD-2-induced cell death in diffuse large B-cell lymphomaÂcells. Cell Death Discovery, 2018, 4, 101.	2.0	8
66	A Darier disease mutation relieves kinetic constraints imposed by the tail of sarco(endo)plasmic reticulum Ca2+-ATPase 2b. Journal of Biological Chemistry, 2018, 293, 3880-3889.	1.6	7
67	Contractile Behavior of Mouse Aorta Depends on SERCA2 Isoform Distribution: Effects of Replacing SERCA2a by SERCA2b. Frontiers in Physiology, 2020, 11, 282.	1.3	5
68	Measuring Ca2+ Pump Activity in Overexpression Systems and Cardiac Muscle Preparations. Cold Spring Harbor Protocols, 2014, 2014, pdb.top066134-pdb.top066134.	0.2	4
69	Measuring Ca ²⁺ -Dependent Ca ²⁺ -Uptake Activity in the Mouse Heart. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot076893.	0.2	4
70	Increased superoxide in GCH1 mutant fibroblasts points to a dopamine-independent toxicity mechanism. Parkinsonism and Related Disorders, 2021, 82, 10-12.	1.1	2
71	Altered phosphorylation status of phospholamban and its contribution to the contractile dysfunction in mouse models of type II diabetes. Journal of Molecular and Cellular Cardiology, 2006, 40, 925-926.	0.9	1
72	Polyamine Transport Assay Using Reconstituted Yeast Membranes. Bio-protocol, 2021, 11, e3888.	0.2	1

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73	Regulation of Ca2+ Transport ATPases by Amino- and Carboxy-Terminal Extensions: Mechanisms and (Patho)Physiological Implications. , 2016, , 243-279.		1
74	Time-Dependent Protein Thermostability Assay. Methods in Molecular Biology, 2016, 1377, 79-85.	0.4	1
75	The alkalinizing, lysosomotropic agent ML-9 induces a pH-dependent depletion of ER Ca2+ stores in cellulo. Biochimica Et Biophysica Acta - Molecular Cell Research, 2022, 1869, 119308.	1.9	1
76	Food-restriction in OB/OB mice restores sarcoplasmic reticulum Ca2+ uptake, but not in vivo β-adrenergic responsiveness. Journal of Molecular and Cellular Cardiology, 2007, 42, S25-S26.	0.9	0
77	Structure/Function Analysis of the Ubiquitous Secretory Pathway Ca2+ Pump SPCA1a. Biophysical Journal, 2014, 106, 586a.	0.2	0
78	Regulation of endoplasmic reticulum Ca2+ oscillations in mammalian eggs. Development (Cambridge), 2014, 141, e207-e207.	1.2	0
79	Protein truncating mutations in ATP13A3 promote pulmonary arterial hypertension. , 2020, , .		Ο