Paola Pizzo

List of Publications by Year
in descending order

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102 papers	7,827 citations	41344 49 h-index	51608 86 g-index
107 all docs	107 docs citations	107 times ranked	9682 citing authors

#	Article	IF	Citations
1	Chimeric green fluorescent protein as a tool for visualizing subcellular organelles in living cells. Current Biology, 1995, 5, 635-642.	3.9	492
2	Mitofusin 2 ablation increases endoplasmic reticulumâ€“mitochondria coupling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2174-81.	7.1	449
3	Modulation of the endoplasmic reticulumâ€“mitochondria interface in Alzheimerâ€™s disease and related models. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7916-7921.	7.1	381
4	Ca2+ Hot Spots on the Mitochondrial Surface Are Generated by Ca2+ Mobilization from Stores, but Not by Activation of Store-Operated Ca2+ Channels. Molecular Cell, 2010, 38, 280-290.	9.7	350
5	Calcium, mitochondria and cell metabolism: A functional triangle in bioenergetics. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1068-1078.	4.1	257
6	Mitochondria, calcium and cell death: A deadly triad in neurodegeneration. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 335-344.	1.0	254
7	Presenilin 2 modulates endoplasmic reticulum (ER)â€“mitochondria interactions and Ca ²⁺ cross-talk. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2777-2782.	7.1	248
8	Mitochondriaâ€“endoplasmic reticulum choreography: structure and signaling dynamics. Trends in Cell Biology, 2007, 17, 511-517.	7.9	234
9	Mitofusin 2: from functions to disease. Cell Death and Disease, 2018, 9, 330.	6.3	230
10	Mitochondrial Ca2+ as a key regulator of cell life and death. Cell Death and Differentiation, 2007, 14, 1267-1274.	11.2	222
11	H2O2 in plant peroxisomes: an in vivo analysis uncovers a Ca2+-dependent scavenging system. Plant Journal, 2010, 62, 760-772.	5.7	211
12	The endoplasmic reticulum-mitochondria coupling in health and disease: Molecules, functions and significance. Cell Calcium, 2017, 62, 1-15.	2.4	193
13	SPLICS: a split green fluorescent protein-based contact site sensor for narrow and wide heterotypic organelle juxtaposition. Cell Death and Differentiation, 2018, 25, 1131-1145.	11.2	174
14	After half a century mitochondrial calcium in- and efflux machineries reveal themselves. EMBO Journal, 2011, 30, 4119-4125.	7.8	157
15	Presenilin 2 Modulates Endoplasmic Reticulum-Mitochondria Coupling by Tuning the Antagonistic Effect of Mitofusin 2. Cell Reports, 2016, 15, 2226-2238.	6.4	138
16	Presenilin mutations linked to familial Alzheimer's disease reduce endoplasmic reticulum and Golgi apparatus calcium levels. Cell Calcium, 2006, 39, 539-550.	2.4	136
17	Mitochondrial Ca2+ homeostasis: mechanism, role, and tissue specificities. Pflugers Archiv European Journal of Physiology, 2012, 464, 3-17.	2.8	125
18	Mitofusinâ€2 knockdown increases <scp>ER</scp>â€“mitochondria contact and decreases amyloid Î²â€peptide production. Journal of Cellular and Molecular Medicine, 2016, 20, 1686-1695.	3.6	124

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19	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. Cell Death and Differentiation, 2018, 25, 542-572.	11.2	120
20	Ca2+ signalling in the Golgi apparatus. Cell Calcium, 2011, 50, 184-192.	2.4	118
21	Extracellular ATP as a possible mediator of cell-mediated cytotoxicity. Trends in Immunology, 1990, 11, 274-277.	7.5	116
22	Unique characteristics of Ca ²⁺ homeostasis of the <i>trans</i> -Golgi compartment. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9198-9203.	7.1	114
23	Lipid rafts and T cell receptor signaling: a critical re-evaluation. European Journal of Immunology, 2002, 32, 3082-3091.	2.9	109
24	TOM70 Sustains Cell Bioenergetics by Promoting IP3R3-Mediated ER to Mitochondria Ca2+ Transfer. Current Biology, 2018, 28, 369-382.e6.	3.9	109
25	Role of capacitative calcium entry on glutamate-induced calcium influx in type-I rat cortical astrocytes. Journal of Neurochemistry, 2008, 79, 98-109.	3.9	96
26	Ribonucleotide reduction is a cytosolic process in mammalian cells independently of DNA damage. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17801-17806.	7.1	95
27	Characterization of the cytotoxic effect of extracellular ATP in J774 mouse macrophages. Biochemical Journal, 1992, 288, 897-901.	3.7	94
28	Extracellular ATP causes lysis of mouse thymocytes and activates a plasma membrane ion channel. Biochemical Journal, 1991, 274, 139-144.	3.7	92
29	The VAPB-PTPIP51 endoplasmic reticulum-mitochondria tethering proteins are present in neuronal synapses and regulate synaptic activity. Acta Neuropathologica Communications, 2019, 7, 35.	5.2	88
30	Ca²⁺ dysregulation in neurons from transgenic mice expressing mutant presenilin 2. Aging Cell, 2012, 11, 885-893.	6.7	83
31	The presenilin 2 M239I mutation associated with familial Alzheimer's disease reduces Ca2+ release from intracellular stores. Neurobiology of Disease, 2004, 15, 269-278.	4.4	80
32	Diacylglycerol activates the influx of extracellular cations in T-lymphocytes independently of intracellular calcium-store depletion and possibly involving endogenous TRP6 gene products. Biochemical Journal, 2002, 364, 245-254.	3.7	79
33	The Aging Mitochondria. Genes, 2018, 9, 22.	2.4	78
34	PSEN2 (presenilin 2) mutants linked to familial Alzheimer disease impair autophagy by altering Ca²⁺ homeostasis. Autophagy, 2019, 15, 2044-2062.	9.1	78
35	Dynamic Properties of an Inositol 1,4,5-Trisphosphateâ€“ and Thapsigargin-insensitive Calcium Pool in Mammalian Cell Lines. Journal of Cell Biology, 1997, 136, 355-366.	5.2	76
36	Reduction of Ca2+ stores and capacitative Ca2+ entry is associated with the familial Alzheimer's disease presenilin-2 T122R mutation and anticipates the onset of dementia. Neurobiology of Disease, 2005, 18, 638-648.	4.4	73

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37	Presenilinâ€2 dampens intracellular Ca²⁺ stores by increasing Ca²⁺ leakage and reducing Ca²⁺ uptake. Journal of Cellular and Molecular Medicine, 2009, 13, 3358-3369.	3.6	73
38	Lymphocyte lipid rafts: structure and function. Current Opinion in Immunology, 2003, 15, 255-260.	5.5	72
39	Grp94 acts as a mediator of curcuminâ€induced antioxidant defence in myogenic cells. Journal of Cellular and Molecular Medicine, 2010, 14, 970-981.	3.6	72
40	Delayed Activation of the Store-operated Calcium Current Induced by Calreticulin Overexpression in RBL-1 Cells. Molecular Biology of the Cell, 1998, 9, 1513-1522.	2.1	68
41	Defective Mitochondrial Pyruvate Flux Affects Cell Bioenergetics in Alzheimerâ€™s Disease-Related Models. Cell Reports, 2020, 30, 2332-2348.e10.	6.4	67
42	Calcium imaging of muscle cells treated with snake myotoxins reveals toxin synergism and presence of acceptors. Cellular and Molecular Life Sciences, 2009, 66, 1718-1728.	5.4	66
43	Bothrops snake myotoxins induce a large efflux of ATP and potassium with spreading of cell damage and pain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14140-14145.	7.1	66
44	Highlighting the endoplasmic reticulum-mitochondria connection: Focus on Mitofusin 2. Pharmacological Research, 2018, 128, 42-51.	7.1	63
45	Hexokinase 2 displacement from mitochondriaâ€associated membranes prompts Ca ²⁺ â€dependent death of cancer cells. EMBO Reports, 2020, 21, e49117.	4.5	62
46	Targeting aequorin and green fluorescent protein to intracellular organelles. Gene, 1996, 173, 113-117.	2.2	61
47	Calcium Influx and Mitochondrial Alterations at Synapses Exposed to Snake Neurotoxins or Their Phospholipid Hydrolysis Products. Journal of Biological Chemistry, 2007, 282, 11238-11245.	3.4	61
48	Intracellular organelles in the saga of Ca2+ homeostasis: different molecules for different purposes?. Cellular and Molecular Life Sciences, 2012, 69, 1077-1104.	5.4	58
49	Reduced levels of dystrophin associated proteins in the brains of mice deficient for Dp71. Human Molecular Genetics, 1996, 5, 1299-1303.	2.9	54
50	Heterogeneity of Ca2+ handling among and within Golgi compartments. Journal of Molecular Cell Biology, 2013, 5, 266-276.	3.3	50
51	On the role of Mitofusin 2 in endoplasmic reticulumâ€“mitochondria tethering. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2266-E2267.	7.1	50
52	Familial Alzheimerâ€™s disease-linked presenilin mutants and intracellular Ca2+ handling: A single-organelle, FRET-based analysis. Cell Calcium, 2019, 79, 44-56.	2.4	48
53	Systems biology identifies preserved integrity but impaired metabolism of mitochondria due to a glycolytic defect in Alzheimer's disease neurons. Aging Cell, 2019, 18, e12924.	6.7	46
54	Structural, functional, and bioinformatics studies reveal a new snake venom homologue phospholipase A₂ class. Proteins: Structure, Function and Bioinformatics, 2011, 79, 61-78.	2.6	44

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55	Calcium Dynamics in the Peroxisomal Lumen of Living Cells. Journal of Biological Chemistry, 2008, 283, 14384-14390.	3.4	42
56	Intracellular Calcium Dysregulation by the Alzheimerâ€™s Disease-Linked Protein Presenilin 2. International Journal of Molecular Sciences, 2020, 21, 770.	4.1	42
57	Ca²⁺ and cAMP crossâ€talk in mitochondria. Journal of Physiology, 2014, 592, 305-312.	2.9	41
58	Physiological T cell activation starts and propagates in lipid rafts. Immunology Letters, 2004, 91, 3-9.	2.5	40
59	Lipid rafts in lymphocyte activation. Microbes and Infection, 2004, 6, 686-692.	1.9	34
60	Characterization of the ER-Targeted Low Affinity Ca2+ Probe D4ER. Sensors, 2016, 16, 1419.	3.8	32
61	Presenilin-2 modulation of ER-mitochondria interactions. Communicative and Integrative Biology, 2011, 4, 357-360.	1.4	29
62	The Concerted Action of Mitochondrial Dynamics and Positioning: New Characters in Cancer Onset and Progression. Frontiers in Oncology, 2017, 7, 102.	2.8	29
63	The C-terminal region of a Lys49 myotoxin mediates Ca2+ influx in C2C12 myotubes. Toxicon, 2010, 55, 590-596.	1.6	28
64	Excitotoxicity Revisited: Mitochondria on the Verge of a Nervous Breakdown. Trends in Neurosciences, 2021, 44, 342-351.	8.6	27
65	The trans-Golgi compartment. Communicative and Integrative Biology, 2010, 3, 462-464.	1.4	25
66	Ontogenesis of Chick Iris Intrinsic Muscles: Evidence for a Smooth-to-Striated Muscle Transition. Developmental Biology, 1993, 159, 441-449.	2.0	22
67	Presenilin-2 and Calcium Handling: Molecules, Organelles, Cells and Brain Networks. Cells, 2020, 9, 2166.	4.1	21
68	Neuronal cell-based high-throughput screen for enhancers of mitochondrial function reveals luteolin as a modulator of mitochondria-endoplasmic reticulum coupling. BMC Biology, 2021, 19, 57.	3.8	21
69	A Lys49-PLA2 myotoxin of Bothrops asper triggers a rapid death of macrophages that involves autocrine purinergic receptor signaling. Cell Death and Disease, 2012, 3, e343-e343.	6.3	20
70	High content analysis of Î³-secretase activity reveals variable dominance of presenilin mutations linked to familial Alzheimer's disease. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1551-1560.	4.1	19
71	Microtubules Stabilization by Mutant Spastin Affects ER Morphology and Ca2+ Handling. Frontiers in Physiology, 2019, 10, 1544.	2.8	19
72	The â€˜Coptic questionâ€™ in post-revolutionary Egypt: citizenship, democracy, religion. Ethnic and Racial Studies, 2015, 38, 2598-2613.	2.3	18

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73	Paradoxical Ca 2+ Rises induced by Low External Ca 2+ in Rat Hippocampal Neurones. Journal of Physiology, 2003, 549, 537-552.	2.9	15
74	Better to keep in touch: investigating interâ€organelle crossâ€talk. FEBS Journal, 2021, 288, 740-755.	4.7	13
75	Mitochondrial calcium handling and neurodegeneration: when a good signal goes wrong. Current Opinion in Physiology, 2020, 17, 224-233.	1.8	12
76	Synergistic Effect of Extracellular Adenosine 5â€²-Triphosphate and Tumor Necrosis Factor on DNA Degradation. Cellular Immunology, 1993, 152, 110-119.	3.0	11
77	Defective autophagy and Alzheimerâ€™s disease: is calcium the key?. Neural Regeneration Research, 2019, 14, 2081.	3.0	11
78	Calcium Signaling and Mitochondrial Function in Presenilin 2 Knock-Out Mice: Looking for Any Loss-of-Function Phenotype Related to Alzheimerâ€™s Disease. Cells, 2021, 10, 204.	4.1	10
79	New insights on culture and calcium signalling in neurons and astrocytes from epileptic patients. International Journal of Developmental Neuroscience, 2011, 29, 121-129.	1.6	8
80	Peroxisome Ca2+ Homeostasis in Animal and Plant Cells. Sub-Cellular Biochemistry, 2013, 69, 111-133.	2.4	8
81	<i>In Vitro</i>Cytotoxic Effects of Extracellular ATP. ATLA Alternatives To Laboratory Animals, 1992, 20, 66-70.	1.0	7
82	Mitochondrial alterations induced by aspirin in rat hepatocytes expressing mitochondrially targeted green fluorescent protein (mtGFP). FEBS Letters, 1996, 382, 256-260.	2.8	7
83	Familial Alzheimerâ€™s disease presenilin-2 mutants affect Ca2+ homeostasis and brain network excitability. Aging Clinical and Experimental Research, 2021, 33, 1705-1708.	2.9	7
84	Loosening ERâ€"Mitochondria Coupling by the Expression of the Presenilin 2 Loop Domain. Cells, 2021, 10, 1968.	4.1	7
85	Lighting Up Ca2+ Dynamics in Animal Models. Cells, 2021, 10, 2133.	4.1	6
86	Loss of cysteine 584 impairs the storage and release, but not the synthesis of von Willebrand factor. Thrombosis and Haemostasis, 2014, 112, 1159-1166.	3.4	5
87	ER-mitochondria tethering and Ca2+ crosstalk: The IP3R team takes the field. Cell Calcium, 2019, 84, 102101.	2.4	5
88	Mitochondrial bioenergetics and neurodegeneration: a paso doble. Neural Regeneration Research, 2021, 16, 686.	3.0	5
89	Glucose dysregulation in pre-clinical Alzheimerâ€™s disease. Aging, 2019, 11, 5296-5297.	3.1	4
90	Calcium Imaging in Drosophila melanogaster. Advances in Experimental Medicine and Biology, 2020, 1131, 881-900.	1.6	4

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91	Lipid-Based Membrane Microdomains in T Cell Activation. Current Immunology Reviews, 2005, 1, 7-12.	1.2	3
92	Cell calcium. Cell Calcium, 2021, 96, 102370.	2.4	3
93	Mechanisms of Neutrophil and Macrophage Motility. Advances in Experimental Medicine and Biology, 1991, 297, 13-22.	1.6	3
94	Mitochondrialand: What Will Come Next?. Function, 2022, 3, zqab073.	2.3	3
95	Exploiting Cameleon Probes to Investigate Organelles Ca2+ Handling. Methods in Molecular Biology, 2019, 1925, 15-30.	0.9	2
96	Generation and Characterization of a New FRET-Based Ca2+ Sensor Targeted to the Nucleus. International Journal of Molecular Sciences, 2021, 22, 9945.	4.1	2
97	Mitochondrial Ca2+ Handling and Behind: The Importance of Being in Contact with Other Organelles. Biological and Medical Physics Series, 2017, , 3-39.	0.4	1
98	Active nNOS Is Required for Grp94-Induced Antioxidant Cytoprotection: A Lesson from Myogenic to Cancer Cells. International Journal of Molecular Sciences, 2022, 23, 2915.	4.1	1
99	Endoplasmic Reticulum-mitochondria connections, calcium cross-talk and cell fate: a closer inspection. , 2012, , 75-106.		0
100	[P1â€“196]: EFFECT OF PRESENILIN 2 MUTATION LINKED TO FAMILIAL ALZHEIMER's DISEASE ON CELL METABOLISM. Alzheimer's and Dementia, 2017, 13, P317.	0.8	0
101	[F3â€“06â€“02]: ALTERATIONS IN ERâ€MITOCHONDRIA CALCIUM TRANSFER INDUCED BY ALZHEIMER's DISEASEâ€LINKED PS2 MUTANTS IMPACT DIFFERENT CELL FUNCTIONALITIES. Alzheimer's and Dementia, 2017, 13, P886.	0.8	0
102	Key Signalling Molecules in Aging and Neurodegeneration. Cells, 2022, 11, 834.	4.1	0