

Jerzy Duszynski

List of Publications by Year in descending order

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79
papers

5,208
citations

159585

30
h-index

88630

70
g-index

86
all docs

86
docs citations

86
times ranked

8565
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation of mitochondria-associated membranes and mitochondria from animal tissues and cells. <i>Nature Protocols</i> , 2009, 4, 1582-1590.	12.0	726
2	Mitochondria-Ros Crosstalk in the Control of Cell Death and Aging. <i>Journal of Signal Transduction</i> , 2012, 2012, 1-17.	2.0	488
3	PML Regulates Apoptosis at Endoplasmic Reticulum by Modulating Calcium Release. <i>Science</i> , 2010, 330, 1247-1251.	12.6	360
4	Relation Between Mitochondrial Membrane Potential and ROS Formation. <i>Methods in Molecular Biology</i> , 2012, 810, 183-205.	0.9	318
5	Calcium signaling around Mitochondria Associated Membranes (MAMs). <i>Cell Communication and Signaling</i> , 2011, 9, 19.	6.5	304
6	Methods to Monitor ROS Production by Fluorescence Microscopy and Fluorometry. <i>Methods in Enzymology</i> , 2014, 542, 243-262.	1.0	253
7	Mitochondria-Associated Membranes: Composition, Molecular Mechanisms, and Physiopathological Implications. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 995-1019.	5.4	243
8	Mitochondria and Reactive Oxygen Species in Aging and Age-Related Diseases. <i>International Review of Cell and Molecular Biology</i> , 2018, 340, 209-344.	3.2	208
9	Interactions between the endoplasmic reticulum, mitochondria, plasma membrane and other subcellular organelles. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 1805-1816.	2.8	165
10	Interaction of Mitochondria with the Endoplasmic Reticulum and Plasma Membrane in Calcium Homeostasis, Lipid Trafficking and Mitochondrial Structure. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1576.	4.1	164
11	Mitochondria-associated membranes in aging and senescence: structure, function, and dynamics. <i>Cell Death and Disease</i> , 2018, 9, 332.	6.3	140
12	Isolation of plasma membrane-associated membranes from rat liver. <i>Nature Protocols</i> , 2014, 9, 312-322.	12.0	129
13	Cardiotoxicity of the Anticancer Therapeutic Agent Bortezomib. <i>American Journal of Pathology</i> , 2010, 176, 2658-2668.	3.8	115
14	Relation Between Mitochondrial Membrane Potential and ROS Formation. <i>Methods in Molecular Biology</i> , 2018, 1782, 357-381.	0.9	79
15	Effect of Mg ²⁺ depletion of mitochondria on their permeability to K ⁺ : The mechanism by which ionophore A23187 increases K ⁺ permeability. <i>Biochemical and Biophysical Research Communications</i> , 1977, 74, 417-424.	2.1	67
16	Oxidative stress-dependent p66Shc phosphorylation in skin fibroblasts of children with mitochondrial disorders. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 952-960.	1.0	65
17	Mitochondria as a possible target for nicotine action. <i>Journal of Bioenergetics and Biomembranes</i> , 2019, 51, 259-276.	2.3	61
18	The role of mitochondria in the regulation of calcium influx into Jurkat cells. <i>FEBS Journal</i> , 2000, 267, 877-884.	0.2	53

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19	Effect of mtDNA point mutations on cellular bioenergetics. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1740-1746.	1.0	50
20	Effect of glucose and deoxyglucose on the redistribution of calcium in Ehrlich ascites tumour and Zajdela hepatoma cells and its consequences for mitochondrial energetics. Further arguments for the role of Ca ²⁺ in the mechanism of the Crabtree effect. <i>FEBS Journal</i> , 1999, 263, 495-501.	0.2	44
21	Oncogenic and oncosuppressive signal transduction at mitochondria-associated endoplasmic reticulum membranes. <i>Molecular and Cellular Oncology</i> , 2014, 1, e956469.	0.7	43
22	The regulatory role of mitochondria in capacitative calcium entry. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 380-387.	1.0	42
23	Investigation of the dependence of the intramitochondrial [ATP]/[ADP] ratio on the respiration rate. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1980, 593, 196-203.	1.0	39
24	Homeostasis of the protonmotive force in phosphorylating mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1984, 767, 540-547.	1.0	39
25	Apparent Anomalous Diffusion in the Cytoplasm of Human Cells: The Effect of Probes [™] Polydispersity. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9831-9837.	2.6	39
26	Assessment of mitochondrial function following short- and long-term exposure of human bronchial epithelial cells to total particulate matter from a candidate modified-risk tobacco product and reference cigarettes. <i>Food and Chemical Toxicology</i> , 2018, 115, 1-12.	3.6	38
27	Multitasking guardian of mitochondrial quality: Parkin function and Parkinson [™] s disease. <i>Translational Neurodegeneration</i> , 2021, 10, 5.	8.0	37
28	Insight into the fission mechanism by quantitative characterization of Drp1 protein distribution in the living cell. <i>Scientific Reports</i> , 2018, 8, 8122.	3.3	35
29	Cardiac mitochondrial dysfunction during hyperglycemia [™] The role of oxidative stress and p66Shc signaling. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 114-122.	2.8	33
30	Nanoscale Viscosity of Cytoplasm Is Conserved in Human Cell Lines. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6914-6920.	4.6	33
31	Quantification of the role of the adenine nucleotide translocator in the control of mitochondrial respiration in isolated rat-liver cells. <i>FEBS Letters</i> , 1982, 146, 262-266.	2.8	32
32	Effect of fatty acids on pyruvate carboxylation in rat liver mitochondria. <i>FEBS Letters</i> , 1972, 28, 253-258.	2.8	31
33	Transport of Adenine Nucleotides in Mitochondria from the Brown Adipose Tissue. <i>FEBS Journal</i> , 1973, 34, 506-512.	0.2	31
34	Calcium Signals Are Affected by Ciprofloxacin as a Consequence of Reduction of Mitochondrial DNA Content in Jurkat Cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 1664-1671.	3.2	30
35	The interplay between p66Shc, reactive oxygen species and cancer cell metabolism. <i>European Journal of Clinical Investigation</i> , 2015, 45, 25-31.	3.4	28
36	Effect of detergents on ADP translocation in mitochondria. <i>FEBS Letters</i> , 1974, 40, 72-76.	2.8	27

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37	Kinetic properties of aspartate transport in rat heart mitochondrial inner membranes. Archives of Biochemistry and Biophysics, 1979, 195, 578-590.	3.0	27
38	The apparent non-linearity of the relationship between the rate of respiration and the protonmotive force of mitochondria can be explained by heterogeneity of mitochondrial preparations. FEBS Letters, 1985, 182, 243-248.	2.8	27
39	Determination of oligomerization state of Drp1 protein in living cells at nanomolar concentrations. Scientific Reports, 2019, 9, 5906.	3.3	27
40	Resting state respiration of mitochondria: Reappraisal of the role of passive ion fluxes. Archives of Biochemistry and Biophysics, 1989, 275, 580-590.	3.0	26
41	Relationship between the energy cost of ATP transport and ATP synthesis in mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1981, 637, 217-223.	1.0	25
42	Overexpression of adenine nucleotide translocase reduces Ca ²⁺ signal transmission between the ER and mitochondria. Biochemical and Biophysical Research Communications, 2006, 348, 393-399.	2.1	25
43	Antioxidant defence systems and generation of reactive oxygen species in osteosarcoma cells with defective mitochondria: Effect of selenium. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 890-896.	1.0	25
44	NARP mutation and mtDNA depletion trigger mitochondrial biogenesis which can be modulated by selenite supplementation. International Journal of Biochemistry and Cell Biology, 2011, 43, 1178-1186.	2.8	25
45	Distinction of sporadic and familial forms of ALS based on mitochondrial characteristics. FASEB Journal, 2019, 33, 4388-4403.	0.5	25
46	Energetics of Ehrlich ascites mitochondria: Membrane potential of isolated mitochondria and mitochondria within digitonin-permeabilized cells. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1015, 503-509.	1.0	21
47	Plasma membrane associated membranes (PAM) from Jurkat cells contain STIM1 protein. International Journal of Biochemistry and Cell Biology, 2009, 41, 2440-2449.	2.8	20
48	Effect of metal cations on the inhibition of adenine nucleotide translocation by acyl-coa. FEBS Letters, 1975, 50, 74-78.	2.8	19
49	Tunicamycin desensitizes store-operated Ca ²⁺ entry to ATP and mitochondrial potential. Biochemical and Biophysical Research Communications, 2009, 381, 176-180.	2.1	19
50	p66Shc Aging Protein in Control of Fibroblasts Cell Fate. International Journal of Molecular Sciences, 2011, 12, 5373-5389.	4.1	19
51	Abnormal Calcium Homeostasis in Fibroblasts from Patients with Leigh Disease. Biochemical and Biophysical Research Communications, 2001, 283, 687-693.	2.1	18
52	Disrupted ATP synthase activity and mitochondrial hyperpolarisation-dependent oxidative stress is associated with p66Shc phosphorylation in fibroblasts of NARP patients. International Journal of Biochemistry and Cell Biology, 2013, 45, 141-150.	2.8	18
53	Influence of a mitochondrial genetic defect on capacitative calcium entry and mitochondrial organization in the osteosarcoma cells. FEBS Letters, 2004, 578, 316-322.	2.8	16
54	Mitochondrial Tolerance to Drugs and Toxic Agents in Ageing and Disease. Current Drug Targets, 2011, 12, 827-849.	2.1	16

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55	Energy-storage capacity of the mitochondrial proton-motive force. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1986, 851, 313-321.	1.0	15
56	Spectral properties of fluorescent derivatives of the oligomycin sensitivity conferring protein and analysis of their interaction with the F1 and Fo sectors of the mitochondrial ATPase complex. <i>Biochemistry</i> , 1988, 27, 6288-6296.	2.5	15
57	Extracellular pH Modifies Mitochondrial Control of Capacitative Calcium Entry in Jurkat Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 3516-3521.	3.4	15
58	Regulation of mitochondrial resting state respiration. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990, 1018, 177-181.	1.0	14
59	Modulation of mitochondrial dysfunction-related oxidative stress in fibroblasts of patients with Leigh syndrome by inhibition of prooxidative p66Shc pathway. <i>Mitochondrion</i> , 2017, 37, 62-79.	3.4	14
60	Serum Selenium Level Predicts 10-Year Survival after Breast Cancer. <i>Nutrients</i> , 2021, 13, 953.	4.1	14
61	Implications of mitochondrial network organization in mitochondrial stress signalling in NARP cybrid and Rho0 cells. <i>Scientific Reports</i> , 2017, 7, 14864.	3.3	13
62	Effect of the divalent cation ionophore A23187 on the translocation of adenine nucleotides in liver mitochondria. <i>FEBS Letters</i> , 1978, 86, 9-13.	2.8	11
63	Mitochondrial Network and Biogenesis in Response to Short and Long-Term Exposure of Human BEAS-2B Cells to Aerosol Extracts from the Tobacco Heating System 2.2. <i>Cellular Physiology and Biochemistry</i> , 2020, 54, 230-251.	1.6	11
64	pH-dependent effect of mitochondria on calcium influx into Jurkat cells; a novel mechanism of cell protection against calcium entry during energy stress. <i>Cell Calcium</i> , 2003, 33, 91-99.	2.4	10
65	Effect of selenite on basic mitochondrial function in human osteosarcoma cells with chronic mitochondrial stress. <i>Mitochondrion</i> , 2012, 12, 149-155.	3.4	10
66	Effect of Chronic Stress Present in Fibroblasts Derived from Patients with a Sporadic Form of AD on Mitochondrial Function and Mitochondrial Turnover. <i>Antioxidants</i> , 2021, 10, 938.	5.1	10
67	Kinetic studies of ATP synthase: The case for the positional change mechanism. <i>Journal of Bioenergetics and Biomembranes</i> , 1992, 24, 499-506.	2.3	9
68	The role of mitochondrial dysfunction in regulation of store-operated calcium channels in glioma C6 and human fibroblast cells. <i>FEBS Letters</i> , 2000, 478, 237-240.	2.8	7
69	Selenite activates the ATM kinase-dependent DNA repair pathway in human osteosarcoma cells with mitochondrial dysfunction. <i>Biochemical Pharmacology</i> , 2015, 95, 170-176.	4.4	7
70	Hallmarks of oxidative stress in the livers of aged mice with mild glycogen branching enzyme deficiency. <i>Archives of Biochemistry and Biophysics</i> , 2020, 695, 108626.	3.0	6
71	A fluorescent derivative of the oligomycin-sensitivity conferring protein (acrylodan-OSCP). Evidence for polarity changes in the environment of CYS118 of OSCP upon binding to mitochondrial F1. <i>Biochemical and Biophysical Research Communications</i> , 1987, 142, 31-37.	2.1	5
72	Białowieża Forest: Logging data lacking. <i>Science</i> , 2018, 359, 646-646.	12.6	5

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73	Adaptation of mitochondrial network dynamics and velocity of mitochondrial movement to chronic stress present in fibroblasts derived from patients with sporadic form of Alzheimer's disease. FASEB Journal, 2021, 35, e21586.	0.5	3
74	Recovering Mitochondrial Function in Patients' Fibroblasts. , 2018, , 359-378.		2
75	Measuring p66Shc Signaling Pathway Activation and Mitochondrial Translocation in Cultured Cells. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2015, 66, 25.6.1-25.6.21.	1.1	1
76	Alteration of mitochondrial function in the livers of mice with glycogen branching enzyme deficiency. Biochimie, 2021, 186, 28-32.	2.6	1
77	Effects of plant alkaloids on mitochondrial bioenergetic parameters. Food and Chemical Toxicology, 2021, 154, 112316.	3.6	1
78	Nonlinearity of the Flux/Force Relationship in Respiring Mitochondria as a Possible Consequence of Heterogeneity of Mitochondrial Preparations. , 1986, , 111-118.		0
79	Mechanisms Stabilizing the Protonmotive Force in Respiring Mitochondria. , 1988, , 223-234.		0