Wieslawa Jarmuszkiewicz

List of Publications by Year
in descending order

112 papers	3,190 citations	117453 34 h-index	197535 49 g-index
114 all docs	114 docs citations	114 times ranked	3027 citing authors

#	Article	IF	Citations
1	Mitochondrial potassium channels. IUBMB Life, 2009, 61, 134-143.	1.5	153
2	Mitochondrial UCPs: New insights into regulation and impact. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 480-485.	0.5	123
3	What do we not know about mitochondrial potassium channels?. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1247-1257.	0.5	110
4	Mitochondrial mechanisms of endothelial dysfunction. Pharmacological Reports, 2015, 67, 704-710.	1.5	79
5	Free fatty acids regulate the uncoupling protein and alternative oxidase activities in plant mitochondria. FEBS Letters, 1998, 433, 237-240.	1.3	75
6	Cyanide-Resistant, ATP-Synthesis-Sustained, and Uncoupling-Protein-Sustained Respiration during Postharvest Ripening of Tomato Fruit1. Plant Physiology, 1999, 119, 1323-1330.	2.3	74
7	Alternative oxidase in the branched mitochondrial respiratory network: an overview on structure, function, regulation, and role. Brazilian Journal of Medical and Biological Research, 1998, 31, 733-747.	0.7	73
8	The influence of high glucose on the aerobic metabolism of endothelial EA.hy926 cells. Pflugers Archiv European Journal of Physiology, 2012, 464, 657-669.	1.3	70
9	Uncoupling proteins outside the animal and plant kingdoms: functional and evolutionary aspects. FEBS Letters, 2002, 510, 117-120.	1.3	68
10	Large-conductance Ca²⁺-activated potassium channel in mitochondria of endothelial EA.hy926 cells. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H1415-H1427.	1.5	65
11	Identification and Characterization of a Protozoan Uncoupling Protein in Acanthamoeba castellanii. Journal of Biological Chemistry, 1999, 274, 23198-23202.	1.6	64
12	First evidence and characterization of an uncoupling protein in fungi kingdom: CpUCP ofCandida parapsilosis. FEBS Letters, 2000, 467, 145-149.	1.3	62
13	Flavonoids and Mitochondria: Activation of Cytoprotective Pathways?. Molecules, 2020, 25, 3060.	1.7	62
14	Immunological identification of the alternative oxidase ofAcanthamoeba castellaniimitochondria. FEBS Letters, 1997, 411, 110-114.	1.3	61
15	Temperature controls oxidative phosphorylation and reactive oxygen species production through uncoupling in rat skeletal muscle mitochondria. Free Radical Biology and Medicine, 2015, 83, 12-20.	1.3	60
16	Linoleic Acid-induced Activity of Plant Uncoupling Mitochondrial Protein in Purified Tomato Fruit Mitochondria during Resting, Phosphorylating, and Progressively Uncoupled Respiration. Journal of Biological Chemistry, 1998, 273, 34882-34886.	1.6	58
17	Respiratory chain network in mitochondria ofCandida parapsilosis: ADP/O appraisal of the multiple electron pathways. FEBS Letters, 2001, 508, 231-235.	1.3	55
18	Redox State of Endogenous Coenzyme Q Modulates the Inhibition of Linoleic Acid-Induced Uncoupling by Guanosine Triphosphate in Isolated Skeletal Muscle Mitochondria. Journal of Bioenergetics and Biomembranes, 2004, 36, 493-502.	1.0	52

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19	Activation of alternative oxidase and uncoupling protein lowers hydrogen peroxide formation in amoebaAcanthamoeba castellaniimitochondria. FEBS Letters, 2005, 579, 3136-3140.	1.3	50
20	An Isolated Complex V Inefficiency and Dysregulated Mitochondrial Function in Immortalized Lymphocytes from ME/CFS Patients. International Journal of Molecular Sciences, 2020, 21, 1074.	1.8	49
21	Increased activity of mitochondrial uncoupling protein 2 improves stress resistance in cultured endothelial cells exposed in vitro to high glucose levels. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H147-H156.	1.5	48
22	Endurance training increases the efficiency of rat skeletal muscle mitochondria. Pflugers Archiv European Journal of Physiology, 2016, 468, 1709-1724.	1.3	48
23	Uncoupling protein and alternative oxidase ofDictyostelium discoideum: occurrence, properties and protein expression during vegetative life and starvation-induced early development. FEBS Letters, 2002, 532, 459-464.	1.3	47
24	Alternative Oxidase and Uncoupling Protein: Thermogenesis Versus Cell Energy Balance. Bioscience Reports, 2001, 21, 213-222.	1.1	45
25	ATP-sensitive Potassium Channel in Mitochondria of the Eukaryotic Microorganism Acanthamoeba castellanii. Journal of Biological Chemistry, 2007, 282, 17433-17441.	1.6	45
26	Mitochondrial uncoupling proteins in unicellular eukaryotes. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 792-799.	0.5	45
27	Electron Partitioning between the Two Branching Quinol-oxidizing Pathways in Acanthamoeba castellaniiMitochondria during Steady-state State 3 Respiration. Journal of Biological Chemistry, 1998, 273, 10174-10180.	1.6	44
28	Activity and functional interaction of alternative oxidase and uncoupling protein in mitochondria from tomato fruit. Brazilian Journal of Medical and Biological Research, 2000, 33, 259-268.	0.7	44
29	A large-conductance calcium-activated potassium channel in potato (Solanum tuberosum) tuber mitochondria. Biochemical Journal, 2009, 424, 307-316.	1.7	41
30	Immortalized Parkinson's Disease lymphocytes have enhanced mitochondrial respiratory activity. DMM Disease Models and Mechanisms, 2016, 9, 1295-1305.	1.2	40
31	Mechanisms responsible for the acceleration of pulmonary VÌ‡<scp>o</scp>₂on-kinetics in humans after prolonged endurance training. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R1101-R1114.	0.9	39
32	The conserved regulation of mitochondrial uncoupling proteins: From unicellular eukaryotes to mammals. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 21-33.	0.5	39
33	Proton Re-uptake Partitioning between Uncoupling Protein and ATP Synthase during Benzohydroxamic Acid-resistant State 3 Respiration in Tomato Fruit Mitochondria. Journal of Biological Chemistry, 2000, 275, 13315-13320.	1.6	36
34	Evidence for a mitochondrial ATP-regulated potassium channel in human dermal fibroblasts. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 309-318.	0.5	35
35	A large-conductance calcium-regulated K+ channel in human dermal fibroblast mitochondria. Biochemical Journal, 2016, 473, 4457-4471.	1.7	34
36	Regulation of the Mitochondrial BKCa Channel by the Citrus Flavonoid Naringenin as a Potential Means of Preventing Cell Damage. Molecules, 2020, 25, 3010.	1.7	30

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37	Regulation of uncoupling protein activity in phosphorylating potato tuber mitochondria. FEBS Letters, 2005, 579, 4437-4442.	1.3	29
38	Uncoupling protein 1 inhibition by purine nucleotides is under the control of the endogenous ubiquinone redox state. Biochemical Journal, 2009, 424, 297-306.	1.7	29
39	Hypoxia and aerobic metabolism adaptations of human endothelial cells. Pflugers Archiv European Journal of Physiology, 2017, 469, 815-827.	1.3	29
40	In Phosphorylating Acanthamoeba castellanii Mitochondria the Sensitivity of Uncoupling Protein Activity to GTP Depends on the Redox State of Quinone. Journal of Bioenergetics and Biomembranes, 2005, 37, 97-107.	1.0	28
41	Alternative Type II NAD(P)H Dehydrogenases in the Mitochondria of Protists and Fungi. Protist, 2019, 170, 21-37.	0.6	28
42	The energy-conserving and energy-dissipating processes in mitochondria isolated from wild type and nonripening tomato fruits during development on the plant. Journal of Bioenergetics and Biomembranes, 2002, 34, 487-498.	1.0	27
43	Different Effects of Guanine Nucleotides (GDP and GTP) on Protein-Mediated Mitochondrial Proton Leak. PLoS ONE, 2014, 9, e98969.	1.1	27
44	Identification and characterization of uncoupling protein 4 in fat body and muscle mitochondria from the cockroach Gromphadorhina cocquereliana. Journal of Bioenergetics and Biomembranes, 2011, 43, 717-727.	1.0	26
45	Effect of temperature on fatty acid metabolism in skeletal muscle mitochondria of untrained and endurance-trained rats. PLoS ONE, 2017, 12, e0189456.	1.1	26
46	Proton leak induced by reactive oxygen species produced during in vitro anoxia/reoxygenation in rat skeletal muscle mitochondria. Journal of Bioenergetics and Biomembranes, 2006, 38, 23-32.	1.0	24
47	Ubiquinol (QH2) functions as a negative regulator of purine nucleotide inhibition of Acanthamoeba castellanii mitochondrial uncoupling protein. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 42-52.	0.5	24
48	Dysregulated Provision of Oxidisable Substrates to the Mitochondria in ME/CFS Lymphoblasts. International Journal of Molecular Sciences, 2021, 22, 2046.	1.8	24
49	Uncoupling proteins in mitochondria of plants and some microorganisms.. Acta Biochimica Polonica, 2001, 48, 145-155.	0.3	24
50	Mitochondrial Respiratory Chain Complex Patterns from Acanthamoeba castellanii and Lycopersicon esculentum: Comparative Analysis by BN-PAGE and Evidence of Proteinâ€“Protein Interaction Between Alternative Oxidase and Complex III. Journal of Bioenergetics and Biomembranes, 2004, 36, 471-479.	1.0	23
51	The effect of chronic exposure to high palmitic acid concentrations on the aerobic metabolism of human endothelial EA.hy926 cells. Pflugers Archiv European Journal of Physiology, 2016, 468, 1541-1554.	1.3	23
52	Biogenesis of mitochondria in cauliflower (Brassica oleracea var. botrytis) curds subjected to temperature stress and recovery involves regulation of the complexome, respiratory chain activity, organellar translation and ultrastructure. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 399-417.	0.5	22
53	Uncoupling proteins of invertebrates: A review. IUBMB Life, 2016, 68, 691-699.	1.5	22
54	Naringenin as an opener of mitochondrial potassium channels in dermal fibroblasts. Experimental Dermatology, 2019, 28, 543-550.	1.4	22

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55	Potassium channels in the mitochondria of unicellular eukaryotes and plants. FEBS Letters, 2010, 584, 2057-2062.	1.3	20
56	Dynamics of the Dictyostelium discoideum mitochondrial proteome during vegetative growth, starvation and early stages of development. Proteomics, 2010, 10, 6-22.	1.3	20
57	Ion conductance pathways in potato tuber (Solanum tuberosum) inner mitochondrial membrane. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 275-285.	0.5	20
58	The Influence of Statins on the Aerobic Metabolism of Endothelial Cells. International Journal of Molecular Sciences, 2020, 21, 1485.	1.8	20
59	The effect of growth at low temperature on the activity and expression of the uncoupling protein inAcanthamoeba castellaniimitochondria. FEBS Letters, 2004, 569, 178-184.	1.3	19
60	Mitochondrial function plasticity in Acanthamoeba castellanii during growth in batch culture. Journal of Bioenergetics and Biomembranes, 2007, 39, 149-157.	1.0	19
61	UCP4 expression changes in larval and pupal fat bodies of the beetle Zophobas atratus under adipokinetic hormone treatment. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 166, 52-59.	0.8	19
62	Cell-Based Blood Biomarkers for Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. International Journal of Molecular Sciences, 2020, 21, 1142.	1.8	19
63	Substrate kinetics of the Acanthamoeba castellanii alternative oxidase and the effects of GMP. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 71-78.	0.5	18
64	Mitochondrial Stress Tests Using Seahorse Respirometry on Intact Dictyostelium discoideum Cells. Methods in Molecular Biology, 2016, 1407, 41-61.	0.4	18
65	The Parkinson's disease-associated protein DJ-1 plays a positive nonmitochondrial role in endocytosis inDictyosteliumcells. DMM Disease Models and Mechanisms, 2017, 10, 1261-1271.	1.2	18
66	Effect of growth at low temperature on the alternative pathway respiration in Acanthamoeba castellanii mitochondria.. Acta Biochimica Polonica, 2001, 48, 729-737.	0.3	18
67	Redox state of quinone affects sensitivity of Acanthamoeba castellanii mitochondrial uncoupling protein to purine nucleotides. Biochemical Journal, 2008, 413, 359-367.	1.7	17
68	Mitochondrial large-conductance potassium channel from Dictyostelium discoideum. International Journal of Biochemistry and Cell Biology, 2015, 60, 167-175.	1.2	16
69	The interplay between mitochondrial reactive oxygen species formation and the coenzyme Q reduction level. Redox Biology, 2018, 18, 256-265.	3.9	16
70	Energy conservation and dissipation in mitochondria isolated from developing tomato fruit of ethylene-defective mutants failing normal ripening: the effect of ethephon, a chemical precursor of ethylene. Journal of Bioenergetics and Biomembranes, 2003, 35, 157-168.	1.0	15
71	Effect of pH on CN-resistant respiratory activity and regulation on Vigna uniguiculata mitochondria. Plant Physiology and Biochemistry, 2000, 38, 765-771.	2.8	13
72	Regulation of Acanthamoeba castellanii alternative oxidase activity by mutual exclusion of purine nucleotides; ATP's inhibitory effect. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 264-271.	0.5	13

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73	Lung mitochondria adaptation to endurance training in rats. Free Radical Biology and Medicine, 2020, 161, 163-174.	1.3	13
74	An Inception Report on the TOM Complex of the Amoeba Acanthamoeba castellanii, a Simple Model Protozoan in Mitochondria Studies. Journal of Bioenergetics and Biomembranes, 2005, 37, 261-268.	1.0	12
75	Fatty acid efficiency profile in uncoupling of Acanthamoeba castellanii mitochondria. Journal of Bioenergetics and Biomembranes, 2007, 39, 109-115.	1.0	12
76	Atorvastatin affects negatively respiratory function of isolated endothelial mitochondria. Archives of Biochemistry and Biophysics, 2018, 637, 64-72.	1.4	12
77	Interactions between the cytochrome pathway and the alternative oxidase in isolated Acanthamoeba castellanii mitochondria. Journal of Bioenergetics and Biomembranes, 2002, 34, 31-40.	1.0	11
78	Mitochondrial HTRA2 Plays a Positive, Protective Role in Dictyostelium discoideum but Is Cytotoxic When Overexpressed. Genes, 2018, 9, 355.	1.0	11
79	Impact of oxidative stress on Acanthamoeba castellanii mitochondrial bioenergetics depends on cell growth stage. Journal of Bioenergetics and Biomembranes, 2011, 43, 217-225.	1.0	10
80	Proteobacterial Origin of Protein Arginine Methylation and Regulation of Complex I Assembly by MidA. Cell Reports, 2018, 24, 1996-2004.	2.9	10
81	Cytotoxicity and Mitochondrial Dysregulation Caused by Î±-Synuclein in Dictyostelium discoideum. Cells, 2020, 9, 2289.	1.8	10
82	The Relationship between Mitochondrial Reactive Oxygen Species Production and Mitochondrial Energetics in Rat Tissues with Different Contents of Reduced Coenzyme Q. Antioxidants, 2021, 10, 533.	2.2	10
83	Carbon dioxide inhibits COVID-19-type proinflammatory responses through extracellular signal-regulated kinases 1 and 2, novel carbon dioxide sensors. Cellular and Molecular Life Sciences, 2021, 78, 8229-8242.	2.4	10
84	Activation of antioxidative and detoxificative systems in Brassica juncea L. plants against the toxicity of heavy metals. Scientific Reports, 2021, 11, 22345.	1.6	10
85	Hydroxynonenal-stimulated activity of the uncoupling protein in Acanthamoeba castellanii mitochondria under phosphorylating conditions. Biological Chemistry, 2013, 394, 649-658.	1.2	9
86	External NAD(P)H Dehydrogenases in Acanthamoeba castellanii Mitochondria. Protist, 2014, 165, 580-593.	0.6	9
87	New metabolic activity of the nonsulfated sulfakinin Zopat-SK-1 in the insect fat body. Peptides, 2015, 68, 157-163.	1.2	9
88	Energy-dissipating hub in muscle mitochondria: Potassium channels and uncoupling proteins. Archives of Biochemistry and Biophysics, 2019, 664, 102-109.	1.4	9
89	Hydroxynonenal, a lipid peroxidation end product, stimulates uncoupling protein activity in Acanthamoeba castellanii mitochondria; the sensitivity of the inducible activity to purine nucleotides depends on the membranous ubiquinone redox state. Journal of Bioenergetics and Biomembranes, 2012, 44, 525-538.	1.0	8
90	Molecular identification and functional characterisation of uncoupling protein 4 in larva and pupa fat body mitochondria from the beetle Zophobas atratus. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2012, 162, 126-133.	0.7	8

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91	Evidences for an ATP-sensitive potassium channel (KATP) in muscle and fat body mitochondria of insect. Journal of Insect Physiology, 2013, 59, 1125-1132.	0.9	8
92	The activity of the nonsulfated sulfakinin Zopat-SK-1 in the neck-ligated larvae of the beetle Zophobas atratus. Peptides, 2015, 69, 127-132.	1.2	7
93	NONSULFATED SULFAKININ CHANGES METABOLIC PARAMETERS OF INSECT FAT BODY MITOCHONDRIA. Archives of Insect Biochemistry and Physiology, 2016, 93, 177-189.	0.6	7
94	The Spectrum of Neurological and White Matter Changes and Premutation Status Categories of Older Male Carriers of the FMR1 Alleles Are Linked to Genetic (CGG and FMR1 mRNA) and Cellular Stress (AMPK) Markers. Frontiers in Genetics, 2018, 9, 531.	1.1	7
95	Functional expression of the Acanthamoeba castellanii alternative oxidase in Escherichia coli; regulation of the activity and evidence for Acaox gene function. Biochemistry and Cell Biology, 2014, 92, 235-241.	0.9	6
96	Sensitivity of the aldehyde-induced and free fatty acid-induced activities of plant uncoupling protein to GTP is regulated by the ubiquinone reduction level. Plant Physiology and Biochemistry, 2014, 79, 109-116.	2.8	6
97	Activation of Mitochondrial Uncoupling Protein 4 and ATP-Sensitive Potassium Channel Cumulatively Decreases Superoxide Production in Insect Mitochondria. Protein and Peptide Letters, 2015, 23, 63-68.	0.4	6
98	A Conserved Role for LRRK2 and Roco Proteins in the Regulation of Mitochondrial Activity. Frontiers in Cell and Developmental Biology, 2021, 9, 734554.	1.8	6
99	Acanthamoeba castellanii STAT Protein. PLoS ONE, 2014, 9, e111345.	1.1	6
100	Regulation of Electron Transport in the Respiratory Chain of Plant Mitochondria. Advances in Photosynthesis and Respiration, 2004, , 231-245.	1.0	4
101	Cellular Bioenergetics and AMPK and TORC1 Signalling in Blood Lymphoblasts Are Biomarkers of Clinical Status in FMR1 Premutation Carriers. Frontiers in Psychiatry, 2021, 12, 747268.	1.3	4
102	Uncoupling proteins in mitochondria of plants and some microorganisms. Acta Biochimica Polonica, 2001, 48, 145-55.	0.3	4
103	Uncoupling Proteins in Amoeboid Eukaryotes,Acanthamoeba castellanii, andDictyostelium discoideum. Toxicology Mechanisms and Methods, 2004, 14, 3-6.	1.3	3
104	Protective Effect of EGb 761 Against Oxidative Phosphorylation of Brain Mitochondria After Anoxia/Reoxygenation In Vivo and In Vitro. Toxicology Mechanisms and Methods, 2004, 14, 97-101.	1.3	3
105	Regulation of electron flux in the branched respiratory chain in mitochondria of Acanthamoeba castellanii.. Acta Biochimica Polonica, 1994, 41, 218-220.	0.3	3
106	Basic energetic parameters of Acanthamoeba castellanii mitochondria and their resistance to oxidative stress.. Acta Biochimica Polonica, 2008, 55, 349-356.	0.3	3
107	Effects of Endurance Training on the Coenzyme Q Redox State in Rat Heart, Liver, and Brain at the Tissue and Mitochondrial Levels: Implications for Reactive Oxygen Species Formation and Respiratory Chain Remodeling. International Journal of Molecular Sciences, 2022, 23, 896.	1.8	3
108	Effect of growth at low temperature on the alternative pathway respiration in Acanthamoeba castellanii mitochondria. Acta Biochimica Polonica, 2001, 48, 729-37.	0.3	3

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109	Relationships between Mitochondrial Function, AMPK, and TORC1 Signaling in Lymphoblasts with Premutation Alleles of the FMR1 Gene. International Journal of Molecular Sciences, 2021, 22, 10393.	1.8	2
110	Chronic Activation of AMPK Induces Mitochondrial Biogenesis through Differential Phosphorylation and Abundance of Mitochondrial Proteins in Dictyostelium discoideum. International Journal of Molecular Sciences, 2021, 22, 11675.	1.8	2
111	Basic energetic parameters of Acanthamoeba castellanii mitochondria and their resistance to oxidative stress. Acta Biochimica Polonica, 2008, 55, 349-55.	0.3	2
112	Cytopathological Outcomes of Knocking down Expression of Mitochondrial Complex II Subunits in Dictyostelium discoideum. International Journal of Molecular Sciences, 2022, 23, 5039.	1.8	1