Bernard Korzeniewski

List of Publications by Year in descending order

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57 papers 1,621 citations

304743 22 h-index 302126 39 g-index

57 all docs

57 docs citations 57 times ranked

1059 citing authors

#	Article	IF	CITATIONS
1	Effect of training on skeletal muscle bioenergetic system in patients with mitochondrial myopathies: A computational study. Respiratory Physiology and Neurobiology, 2022, 296, 103799.	1.6	4
2	V˙O2 On-Kinetics–Critical Power Relationship: Correlation But Not Direct Causal Link. Exercise and Sport Sciences Reviews, 2022, 50, 104-104.	3.0	1
3	Factors determining training-induced changes in V̇O2max, critical power, and V̇O2 on-kinetics in skeletal muscle. Journal of Applied Physiology, 2021, 130, 498-507.	2.5	19
4	Mechanisms of the effect of oxidative phosphorylation deficiencies on the skeletal muscle bioenergetic system in patients with mitochondrial myopathies. Journal of Applied Physiology, 2021, 131, 768-777.	2.5	5
5	Exceeding a "critical―muscle Pi: implications for \$\$dot{ext{V}}ext{O}_{2}\$\$ and metabolite slow components, muscle fatigue and the power–duration relationship. European Journal of Applied Physiology, 2020, 120, 1609-1619.	2.5	21
6	Pi-induced muscle fatigue leads to near-hyperbolic power–duration dependence. European Journal of Applied Physiology, 2019, 119, 2201-2213.	2.5	15
7	Muscle V˙O2-power output nonlinearity in constant-power, step-incremental, and ramp-incremental exercise: magnitude and underlying mechanisms. Physiological Reports, 2018, 6, e13915.	1.7	8
8	Regulation of oxidative phosphorylation is different in electrically- and cortically-stimulated skeletal muscle. PLoS ONE, 2018, 13, e0195620.	2.5	13
9	Mechanisms underlying extremely fast muscle V˙O ₂ on-kinetics in humans. Physiological Reports, 2018, 6, e13808.	1.7	6
10	Regulation of oxidative phosphorylation through each-step activation (ESA): Evidences from computer modeling. Progress in Biophysics and Molecular Biology, 2017, 125, 1-23.	2.9	20
11	Contribution of proton leak to oxygen consumption in skeletal muscle during intense exercise is very low despite large contribution at rest. PLoS ONE, 2017, 12, e0185991.	2.5	11
12	Mechanisms of Attenuation of Pulmonary V'O2 Slow Component in Humans after Prolonged Endurance Training. PLoS ONE, 2016, 11, e0154135.	2.5	10
13	Faster and stronger manifestation of mitochondrial diseases in skeletal muscle than in heart related to cytosolic inorganic phosphate (Pi) accumulation. Journal of Applied Physiology, 2016, 121, 424-437.	2.5	6
14	Eachâ€step activation of oxidative phosphorylation is necessary to explain muscle metabolic kinetic responses to exercise and recovery in humans. Journal of Physiology, 2015, 593, 5255-5268.	2.9	41
15	Effects of OXPHOS complex deficiencies and ESA dysfunction in working intact skeletal muscle: implications for mitochondrial myopathies. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1310-1319.	1.0	10
16	Possible mechanisms underlying slow component of $\hat{Vl}_{02} on-kinetics in skeletal muscle. Journal of Applied Physiology, 2015, 118, 1240-1249.$	2.5	30
17	â€Idealized' State 4 and State 3 in Mitochondria vs. Rest and Work in Skeletal Muscle. PLoS ONE, 2015, 10, e0117145.	2.5	19
18	Regulation of oxidative phosphorylation during work transitions results from its kinetic properties. Journal of Applied Physiology, 2014, 116, 83-94.	2.5	14

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19	Mechanisms responsible for the acceleration of pulmonary V̇ <scp>o</scp> ₂ on-kinetics in humans after prolonged endurance training. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R1101-R1114.	1.8	39
20	Trainingâ€induced acceleration of O ₂ uptake onâ€kinetics precedes muscle mitochondrial biogenesis in humans. Experimental Physiology, 2013, 98, 883-898.	2.0	48
21	Slow V̇ <scp>o</scp> ₂ off-kinetics in skeletal muscle is associated with fast PCr off-kineticsâ€"and inversely. Journal of Applied Physiology, 2013, 115, 605-612.	2.5	17
22	Cytosolic Ca2+ regulates the energization of isolated brain mitochondria by formation of pyruvate through the malate–aspartate shuttle. Biochemical Journal, 2012, 443, 747-755.	3.7	68
23	Computer-aided studies on the regulation of oxidative phosphorylation during work transitions. Progress in Biophysics and Molecular Biology, 2011, 107, 274-285.	2.9	8
24	Computer-aided analysis of biochemical mechanisms that increase metabolite and proton stability in the heart during severe hypoxia and generate post-ischemic PCr overshoot. Journal of Physiological Sciences, 2011, 61, 349-361.	2.1	3
25	Artificial Cybernetic Living Individuals Based on SupraMolecular-Level Organization as Dispersed Individuals. Artificial Life, 2011, 17, 51-67.	1.3	5
26	Effect of pyruvate, lactate and insulin on ATP supply and demand in unpaced perfused rat heart. Biochemical Journal, 2009, 423, 421-428.	3.7	9
27	Physiological heart activation by adrenaline involves parallel activation of ATP usage and supply. Biochemical Journal, 2008, 413, 343-347.	3.7	26
28	Oxygen delivery by blood determines the maximal Vo2 and work rate during whole body exercise in humans: in silico studies. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H343-H353.	3.2	9
29	Regulation of oxidative phosphorylation through parallel activation. Biophysical Chemistry, 2007, 129, 93-110.	2.8	92
30	Biochemical Background of the VO2 On-Kinetics in Skeletal Muscles. Journal of Physiological Sciences, 2006, 56, 1-12.	2.1	21
31	Oxygen consumption and metabolite concentrations during transitions between different work intensities in heart. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1466-H1474.	3.2	20
32	Metabolic control over the oxygen consumption flux in intact skeletal muscle: in silico studies. American Journal of Physiology - Cell Physiology, 2006, 291, C1213-C1224.	4.6	32
33	AMP Deamination Delays Muscle Acidification during Heavy Exercise and Hypoxia. Journal of Biological Chemistry, 2006, 281, 3057-3066.	3.4	35
34	Some factors determining the PCr recovery overshoot in skeletal muscle. Biophysical Chemistry, 2005, 116, 129-136.	2.8	25
35	Regulation of oxidative phosphorylation in intact mammalian heart in vivo. Biophysical Chemistry, 2005, 116, 145-157.	2.8	48
36	Confrontation of the Cybernetic Definition of a Living Individual with the Real World. Acta Biotheoretica, 2005, 53, 1-28.	1.5	15

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37	Preexercise metabolic alkalosis induced via bicarbonate ingestion accelerates V̇o2 kinetics at the onset of a high-power-output exercise in humans. Journal of Applied Physiology, 2005, 98, 895-904.	2.5	26
38	Theoretical studies on the regulation of anaerobic glycolysis and its influence on oxidative phosphorylation in skeletal muscle. Biophysical Chemistry, 2004, 110, 147-169.	2.8	52
39	Factors determining the oxygen consumption rate (V.o2) on-kinetics in skeletal muscles. Biochemical Journal, 2004, 379, 703-710.	3.7	63
40	Influence of substrate activation (hydrolysis of ATP by first steps of glycolysis and \hat{l}^2 -oxidation) on the effect of enzyme deficiencies, inhibitors, substrate shortage and energy demand on oxidative phosphorylation. Biophysical Chemistry, 2003, 104, 107-119.	2.8	2
41	Training-induced adaptation of oxidative phosphorylation in skeletal muscles. Biochemical Journal, 2003, 374, 37-40.	3.7	41
42	Regulation of oxidative phosphorylation in different muscles and various experimental conditions. Biochemical Journal, 2003, 375, 799-804.	3.7	59
43	Possible Factors Determining the Non-Linearity in the VO2-Power Output Relationship in Humans: Theoretical Studies. The Japanese Journal of Physiology, 2003, 53, 271-280.	0.9	16
44	Influence of rapid changes in cytosolic pH on oxidative phosphorylation in skeletal muscle: theoretical studies. Biochemical Journal, 2002, 365, 249-258.	3.7	15
45	Parallel activation in the ATP supply–demand system lessens the impact of inborn enzyme deficiencies, inhibitors, poisons or substrate shortage on oxidative phosphorylation in vivo. Biophysical Chemistry, 2002, 96, 21-31.	2.8	11
46	Effect of enzyme deficiencies on oxidative phosphorylation: from isolated mitochondria to intact tissues. Theoretical studies. Molecular Biology Reports, 2002, 29, 197-202.	2.3	0
47	Effect of †binary mitochondrial heteroplasmy' on respiration and ATP synthesis: implications for mitochondrial diseases. Biochemical Journal, 2001, 357, 835-842.	3.7	17
48	A model of oxidative phosphorylation in mammalian skeletal muscle. Biophysical Chemistry, 2001, 92, 17-34.	2.8	166
49	Is it possible to predict any properties of oxidative phosphorylation in a theoretical way?. , 1998, 184, 345-358.		5
50	Dextran strongly increases the Michaelis constants of oxidative phosphorylation and of mitochondrial creatine kinase in heart mitochondria. FEBS Journal, 1998, 254, 172-180.	0.2	31
51	Regulation of ATP supply during muscle contraction: theoretical studies. Biochemical Journal, 1998, 330, 1189-1195.	3.7	144
52	Thermodynamic regulation of cytochrome oxidase. , 1997, 174, 137-141.		7
53	Theoretical studies on the control of oxidative phosphorylation in muscle mitochondria: application to mitochondrial deficiencies. Biochemical Journal, 1996, 319, 143-148.	3.7	98
54	What regulates respiration in mitochondria?. IUBMB Life, 1996, 39, 415-419.	3.4	4

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55	Regulation of cytochrome oxidase: theoretical studies. Biophysical Chemistry, 1996, 59, 75-86.	2.8	16
56	Theoretical studies on control of oxidative phosphorylation in muscle mitochondria at different energy demands and oxygen concentrations. Acta Biotheoretica, 1996, 44, 263-269.	1.5	29
57	Proportional activation coefficients during stimulation of oxidative phosphorylation by lactate and pyruvate or by vasopressin. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1229, 315-322.	1.0	46