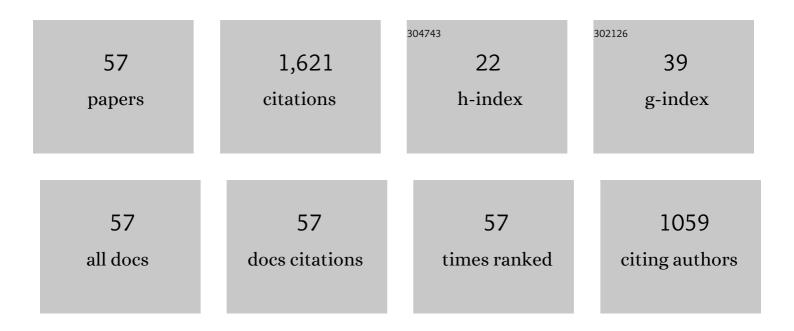
Bernard Korzeniewski

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A model of oxidative phosphorylation in mammalian skeletal muscle. Biophysical Chemistry, 2001, 92, 17-34. | 2.8 | 166 |
| 2 | Regulation of ATP supply during muscle contraction: theoretical studies. Biochemical Journal, 1998, 330, 1189-1195. | 3.7 | 144 |
| 3 | Theoretical studies on the control of oxidative phosphorylation in muscle mitochondria: application to mitochondrial deficiencies. Biochemical Journal, 1996, 319, 143-148. | 3.7 | 98 |
| 4 | Regulation of oxidative phosphorylation through parallel activation. Biophysical Chemistry, 2007, 129, 93-110. | 2.8 | 92 |
| 5 | 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 |
| 6 | Factors determining the oxygen consumption rate (V.o2) on-kinetics in skeletal muscles. Biochemical Journal, 2004, 379, 703-710. | 3.7 | 63 |
| 7 | Regulation of oxidative phosphorylation in different muscles and various experimental conditions. Biochemical Journal, 2003, 375, 799-804. | 3.7 | 59 |
| 8 | 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 |
| 9 | Regulation of oxidative phosphorylation in intact mammalian heart in vivo. Biophysical Chemistry, 2005, 116, 145-157. | 2.8 | 48 |
| 10 | Trainingâ€induced acceleration of O ₂ uptake onâ€kinetics precedes muscle mitochondrial biogenesis in humans. Experimental Physiology, 2013, 98, 883-898. | 2.0 | 48 |
| 11 | 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 |
| 12 | Training-induced adaptation of oxidative phosphorylation in skeletal muscles. Biochemical Journal, 2003, 374, 37-40. | 3.7 | 41 |
| 13 | 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 |
| 14 | 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 |
| 15 | AMP Deamination Delays Muscle Acidification during Heavy Exercise and Hypoxia. Journal of Biological Chemistry, 2006, 281, 3057-3066. | 3.4 | 35 |
| 16 | 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 |
| 17 | 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 |
| 18 | Possible mechanisms underlying slow component of V̇ <scp>o</scp> ₂ on-kinetics in skeletal muscle. Journal of Applied Physiology, 2015, 118, 1240-1249. | 2.5 | 30 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Physiological heart activation by adrenaline involves parallel activation of ATP usage and supply. Biochemical Journal, 2008, 413, 343-347. | 3.7 | 26 |
| 22 | Some factors determining the PCr recovery overshoot in skeletal muscle. Biophysical Chemistry, 2005, 116, 129-136. | 2.8 | 25 |
| 23 | Biochemical Background of the VO2 On-Kinetics in Skeletal Muscles. Journal of Physiological Sciences, 2006, 56, 1-12. | 2.1 | 21 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | †Idealized' State 4 and State 3 in Mitochondria vs. Rest and Work in Skeletal Muscle. PLoS ONE, 2015, 10, e0117145. | 2.5 | 19 |
| 29 | Effect of â€~binary mitochondrial heteroplasmy' on respiration and ATP synthesis: implications for mitochondrial diseases. Biochemical Journal, 2001, 357, 835-842. | 3.7 | 17 |
| 30 | Slow V̇ <scp>o</scp> ₂ off-kinetics in skeletal muscle is associated with fast PCr off-kinetics—and inversely. Journal of Applied Physiology, 2013, 115, 605-612. | 2.5 | 17 |
| 31 | Regulation of cytochrome oxidase: theoretical studies. Biophysical Chemistry, 1996, 59, 75-86. | 2.8 | 16 |
| 32 | 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 |
| 33 | Influence of rapid changes in cytosolic pH on oxidative phosphorylation in skeletal muscle: theoretical studies. Biochemical Journal, 2002, 365, 249-258. | 3.7 | 15 |
| 34 | Confrontation of the Cybernetic Definition of a Living Individual with the Real World. Acta Biotheoretica, 2005, 53, 1-28. | 1.5 | 15 |
| 35 | Pi-induced muscle fatigue leads to near-hyperbolic power–duration dependence. European Journal of Applied Physiology, 2019, 119, 2201-2213. | 2.5 | 15 |
| 36 | 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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|----|--|-----|-----------|
| 37 | Regulation of oxidative phosphorylation is different in electrically- and cortically-stimulated skeletal muscle. PLoS ONE, 2018, 13, e0195620. | 2.5 | 13 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Mechanisms of Attenuation of Pulmonary V'O2 Slow Component in Humans after Prolonged Endurance Training. PLoS ONE, 2016, 11, e0154135. | 2.5 | 10 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Thermodynamic regulation of cytochrome oxidase. , 1997, 174, 137-141. | | 7 |
| 47 | 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 |
| 48 | Mechanisms underlying extremely fast muscle V˙O ₂ on-kinetics in humans. Physiological Reports, 2018, 6, e13808. | 1.7 | 6 |
| 49 | Is it possible to predict any properties of oxidative phosphorylation in a theoretical way?. , 1998, 184, 345-358. | | 5 |
| 50 | Artificial Cybernetic Living Individuals Based on SupraMolecular-Level Organization as Dispersed Individuals. Artificial Life, 2011, 17, 51-67. | 1.3 | 5 |
| 51 | 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 |
| 52 | What regulates respiration in mitochondria?. IUBMB Life, 1996, 39, 415-419. | 3.4 | 4 |
| 53 | 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 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | Influence of substrate activation (hydrolysis of ATP by first steps of glycolysis and β-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 |
| 56 | 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 |
| 57 | Effect of enzyme deficiencies on oxidative phosphorylation: from isolated mitochondria to intact tissues. Theoretical studies. Molecular Biology Reports, 2002, 29, 197-202. | 2.3 | Ο |