# Theo Wallimann

List of Publications by Year
in descending order



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|---|---|---|---|
| 255 papers | 20,123 citations | 12597 71 h-index | 15253 130 g-index |
| 259 all docs | 259 docs citations | 259 times ranked | 14730 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Plasma creatine concentration is associated with incident hypertension in a cohort enriched for the presence of high urinary albumin concentration: the Prevention of Renal and Vascular Endstage Disease study. Journal of Hypertension, 2022, 40, 229-239. | 0.3 | 4 |
| 2 | Supplementing Soy-Based Diet with Creatine in Rats: Implications for Cardiac Cell Signaling and Response to Doxorubicin. Nutrients, 2022, 14, 583. | 1.7 | 2 |
| 3 | Plasma creatine and incident type 2 diabetes in a general populationâ€based cohort: The PREVEND study. Clinical Endocrinology, 2021, 94, 563-574. | 1.2 | 11 |
| 4 | Creatine homeostasis and protein energy wasting in hemodialysis patients. Journal of Translational Medicine, 2021, 19, 115. | 1.8 | 6 |
| 5 | Creatine Supplementation for Patients with Inflammatory Bowel Diseases: A Scientific Rationale for a Clinical Trial. Nutrients, 2021, 13, 1429. | 1.7 | 15 |
| 6 | Chronic Dialysis Patients Are Depleted of Creatine: Review and Rationale for Intradialytic Creatine Supplementation. Nutrients, 2021, 13, 2709. | 1.7 | 7 |
| 7 | Regulation \| Metabolite Channeling in Energy Metabolism. , 2021, , 592-598. | | 0 |
| 8 | Role of creatine and creatine kinase in UCP1-independent adipocyte thermogenesis. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E944-E946. | 1.8 | 14 |
| 9 | Intradialytic creatine supplementation: A scientific rationale for improving the health and quality of life of dialysis patients. Medical Hypotheses, 2017, 99, 1-14. | 0.8 | 22 |
| 10 | The effects of creatine supplementation on striatal neural progenitor cells depend on developmental stage. Amino Acids, 2016, 48, 1913-1927. | 1.2 | 5 |
| 11 | Creatine: a miserable life without it. Amino Acids, 2016, 48, 1739-1750. | 1.2 | 23 |
| 12 | Creatine supplementation improves neural progenitor cell survival in Huntington's disease. Brain Circulation, 2016, 2, 133. | 0.7 | 7 |
| 13 | The extended, dynamic mitochondrial reticulum in skeletal muscle and the creatine kinase (CK)/phosphocreatine (PCr) shuttle are working hand in hand for optimal energy provision. Journal of Muscle Research and Cell Motility, 2015, 36, 297-300. | 0.9 | 13 |
| 14 | Modular organization of cardiac energy metabolism: energy conversion, transfer and feedback regulation. Acta Physiologica, 2015, 213, 84-106. | 1.8 | 43 |
| 15 | Systems Level Regulation of Cardiac Energy Fluxes Via Metabolic Cycles: Role of Creatine, Phosphotransfer Pathways, and AMPK Signaling. Springer Series in Biophysics, 2014, , 261-320. | 0.4 | 8 |
| 16 | Comment on â€œtoxic hepatitis in a group of 20 male body-builders taking dietary supplementsâ€•by Timcheh-Hariri et al. (2012). Food and Chemical Toxicology, 2013, 51, 453-454. | 1.8 | 3 |
| 17 | A short review on creatineâ€“creatine kinase system in relation to cancer and some experimental results on creatine as adjuvant in cancer therapy. Amino Acids, 2012, 42, 2319-2330. | 1.2 | 55 |
| 18 | Phosphocreatine Interacts with Phospholipids, Affects Membrane Properties and Exerts Membrane-Protective Effects. PLoS ONE, 2012, 7, e43178. | 1.1 | 61 |

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| 19 | The creatine kinase system and pleiotropic effects of creatine. Amino Acids, 2011, 40, 1271-1296. | 1.2 | 543 |
| 20 | Molecular System Bioenergics of the Heart: Experimental Studies of Metabolic Compartmentation and Energy Fluxes versus Computer Modeling. International Journal of Molecular Sciences, 2011, 12, 9296-9331. | 1.8 | 33 |
| 21 | PKA phosphorylates and inactivates AMPKÎ± to promote efficient lipolysis. EMBO Journal, 2010, 29, 469-481. | 3.5 | 235 |
| 22 | Creatine kinases: a cornerstone for structural research in the phosphagen kinase family. FASEB Journal, 2010, 24, 7-7. | 0.2 | 8 |
| 23 | Where Have the Fluxes Gone?. Journal of Biological Chemistry, 2010, 285, le21. | 1.6 | 3 |
| 24 | Regulation of the creatine transporter by AMP-activated protein kinase in kidney epithelial cells. American Journal of Physiology - Renal Physiology, 2010, 299, F167-F177. | 1.3 | 57 |
| 25 | A versatile multidimensional protein purification system with full Internet remote control based on a standard HPLC system. BioTechniques, 2009, 46, ix-xii. | 0.8 | 22 |
| 26 | Homo-oligomerization and Activation of AMP-activated Protein Kinase Are Mediated by the Kinase Domain Î±G-Helix. Journal of Biological Chemistry, 2009, 284, 27425-27437. | 1.6 | 25 |
| 27 | Developmental changes in the expression of creatine synthesizing enzymes and creatine transporter in a precocial rodent, the spiny mouse. BMC Developmental Biology, 2009, 9, 39. | 2.1 | 55 |
| 28 | Tracking and quantification of 32P-labeled phosphopeptides in liquid chromatography matrix-assisted laser desorption/ionization mass spectrometry. Analytical Biochemistry, 2009, 390, 141-148. | 1.1 | 17 |
| 29 | Development and performance of an enzyme immunoassay to detect creatine kinase isoenzyme MB activity using anti-mitochondrial creatine kinase monoclonal antibodies. Scandinavian Journal of Clinical and Laboratory Investigation, 2009, 69, 687-695. | 0.6 | 16 |
| 30 | Protective Effect of the Energy Precursor Creatine Against Toxicity of Glutamate and Î²-Amyloid in Rat Hippocampal Neurons. Journal of Neurochemistry, 2008, 74, 1968-1978. | 2.1 | 200 |
| 31 | Progressive decrease of phosphocreatine, creatine and creatine kinase in skeletal muscle upon transformation to sarcoma. FEBS Journal, 2008, 275, 3236-3247. | 2.2 | 44 |
| 32 | Enzymes of creatine biosynthesis, arginine and methionine metabolism in normal and malignant cells. FEBS Journal, 2008, 275, 5899-5909. | 2.2 | 31 |
| 33 | European research needs a dash of anarchy. Nature, 2008, 453, 850-850. | 13.7 | 2 |
| 34 | Ammonium alters creatine transport and synthesis in a 3D culture of developing brain cells, resulting in secondary cerebral creatine deficiency. European Journal of Neuroscience, 2008, 27, 1673-1685. | 1.2 | 52 |
| 35 | Metabolic Compartmentation â€“ A System Level Property of Muscle Cells. International Journal of Molecular Sciences, 2008, 9, 751-767. | 1.8 | 87 |
| 36 | Creatine supplementation stimulates collagen type I and osteoprotegerin secretion of healthy and osoteopenic primary human osteoblast-like cells in vitro. Bone, 2008, 42, S21-S22. | 1.4 | 2 |

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| 37 | Functions and effects of creatine in the central nervous system. Brain Research Bulletin, 2008, 76, 329-343. | 1.4 | 303 |
| 38 | Dietary Phytoestrogens Activate AMP-Activated Protein Kinase With Improvement in Lipid and Glucose Metabolism. Diabetes, 2008, 57, 1176-1185. | 0.3 | 177 |
| 39 | Structural Properties of AMP-activated Protein Kinase. Journal of Biological Chemistry, 2008, 283, 18331-18343. | 1.6 | 82 |
| 40 | An automated home-built low-cost fermenter suitable for large-scale bacterial expression of proteins in Escherichia coli. BioTechniques, 2008, 45, 187-189. | 0.8 | 4 |
| 41 | Hair Bundles Are Specialized for ATP Delivery via Creatine Kinase. Neuron, 2007, 53, 371-386. | 3.8 | 114 |
| 42 | Cardiolipin Clusters and Membrane Domain Formation Induced by Mitochondrial Proteins. Journal of Molecular Biology, 2007, 365, 968-980. | 2.0 | 98 |
| 43 | The Creatine Kinase Phosphotransfer Network: Thermodynamic and Kinetic Considerations, the Impact of the Mitochondrial Outer Membrane and Modelling Approaches. , 2007, 46, 27-65. | | 57 |
| 44 | New Candidate Targets of AMP-Activated Protein Kinase in Murine Brain Revealed by a Novel Multidimensional Substrate-Screen for Protein Kinases. Journal of Proteome Research, 2007, 6, 3266-3277. | 1.8 | 31 |
| 45 | Novel Lipid Transfer Property of Two Mitochondrial Proteins that Bridge the Inner and Outer Membranes. Biophysical Journal, 2007, 92, 126-137. | 0.2 | 71 |
| 46 | Reduced creatine-stimulated respiration in doxorubicin challenged mitochondria: Particular sensitivity of the heart. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 1276-1284. | 0.5 | 34 |
| 47 | Creatine treatment promotes differentiation of GABA-ergic neuronal precursors in cultured fetal rat spinal cord. Journal of Neuroscience Research, 2007, 85, 1863-1875. | 1.3 | 27 |
| 48 | Improved Reperfusion and Neuroprotection by Creatine in a Mouse Model of Stroke. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 452-459. | 2.4 | 109 |
| 49 | Creatine promotes the GABAergic phenotype in human fetal spinal cord cultures. Brain Research, 2007, 1137, 50-57. | 1.1 | 17 |
| 50 | Creatine and Creatine Kinase in Health and Disease â€“ A Bright Future Ahead?. , 2007, 46, 309-334. | | 36 |
| 51 | Brain-type creatine kinase BB-CK interacts with the Golgi Matrix Protein GM130 in early prophase. Molecular and Cellular Biochemistry, 2007, 297, 53-64. | 1.4 | 12 |
| 52 | Inhibition of cytosolic and mitochondrial creatine kinase by siRNA in HaCaT- and HeLaS3-cells affects cell viability and mitochondrial morphology. Molecular and Cellular Biochemistry, 2007, 306, 153-162. | 1.4 | 23 |
| 53 | Co-expression of LKB1, MO25Î± and STRADÎ± in bacteria yield the functional and active heterotrimeric complex. Molecular Biotechnology, 2007, 36, 220-231. | 1.3 | 25 |
| 54 | Introduction â€“ Creatine: Cheap Ergogenic Supplement with Great Potential for Health and Disease. , 2007, 46, 1-16. | | 23 |

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| 55 | Mitochondrial creatine kinase in human health and disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 164-180. | 1.8 | 501 |
| 56 | Alterations in myocardial energy metabolism induced by the anti-cancer drug doxorubicin. Comptes Rendus - Biologies, 2006, 329, 657-668. | 0.1 | 78 |
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| 64 | The Creatine Kinase/Creatine Connection to Alzheimer's Disease: CK Inactivation, APP-CK Complexes and Focal Creatine Deposits. Journal of Biomedicine and Biotechnology, 2006, 2006, 1-11. | 3.0 | 83 |
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| 66 | Dissecting the Role of 5â€²-AMP for Allosteric Stimulation, Activation, and Deactivation of AMP-activated Protein Kinase. Journal of Biological Chemistry, 2006, 281, 32207-32216. | 1.6 | 393 |
| 67 | Macroenzyme Creatine Kinase (Ck) Type 2 in HIV-Infected Patients is Significantly Associated with Tdf and Consists of Ubiquitous Mitochondrial Ck. Antiviral Therapy, 2006, 11, 1071-1080. | 0.6 | 10 |
| 68 | Octameric mitochondrial creatine kinase induces and stabilizes contact sites between the inner and outer membrane. Biochemical Journal, 2005, 385, 445-450. | 1.7 | 72 |
| 69 | Effects of creatine treatment on survival and differentiation of GABA-ergic neurons in cultured striatal tissue. Journal of Neurochemistry, 2005, 95, 33-45. | 2.1 | 51 |
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| 84 | Mammalian AMP-activated protein kinase: functional, heterotrimeric complexes by co-expression of subunits in Escherichia coli. Protein Expression and Purification, 2003, 30, 230-237. | 0.6 | 126 |
| 85 | Effects of creatine supplementation in cystic fibrosis: results of a pilot study. Journal of Cystic Fibrosis, 2003, 2, 177-182. | 0.3 | 14 |
| 86 | Muscle-type Creatine Kinase Interacts with Central Domains of the M-band Proteins Myomesin and M-protein. Journal of Molecular Biology, 2003, 332, 877-887. | 2.0 | 88 |
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| 88 | Inhibition of the Mitochondrial Permeability Transition by Creatine Kinase Substrates. Journal of Biological Chemistry, 2003, 278, 17760-17766. | 1.6 | 192 |
| 89 | Differential Effects of Peroxynitrite on Human Mitochondrial Creatine Kinase Isoenzymes. Journal of Biological Chemistry, 2003, 278, 1125-1130. | 1.6 | 61 |
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| 101 | Expression of creatine kinase isoenzyme genes during postnatal development of rat brain cerebellum: evidence for transcriptional regulation. Biochemical Journal, 2002, 367, 369-380. | 1.7 | 26 |
| 102 | Mutation of conserved active-site threonine residues in creatine kinase affects autophosphorylation and enzyme kinetics. Biochemical Journal, 2002, 363, 785-792. | 1.7 | 13 |
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| 108 | Creatine Kinase and Creatine Transporter in Normal, Wounded, and Diseased Skin. Journal of Investigative Dermatology, 2002, 118, 416-423. | 0.3 | 67 |

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| 109 | Protective effects of oral creatine supplementation on spinal cord injury in rats. Spinal Cord, 2002, 40, 449-456. | 0.9 | 55 |
| 110 | Human, rat and chicken small intestinal Na+â€Clâ"â€creatine transporter: functional, molecular characterization and localization. Journal of Physiology, 2002, 545, 133-144. | 1.3 | 81 |
| 111 | Expressing creatine kinase in transgenic tobacco â€" a first step towards introducing an energy buffering system in plants. Transgenic Research, 2002, 11, 49-59. | 1.3 | 7 |
| 112 | Functional aspects of creatine kinase isoenzymes in endothelial cells. American Journal of Physiology - Cell Physiology, 2001, 281, C320-C328. | 2.1 | 26 |
| 113 | Creatine transporter protein content, localization, and gene expression in rat skeletal muscle. American Journal of Physiology - Cell Physiology, 2001, 280, C415-C422. | 2.1 | 47 |
| 114 | Mitochondrial Creatine Kinase in Contact Sites: Interaction with Porin and Adenine Nucleotide Translocase, Role in Permeability Transition and Sensitivity to Oxidative Damage. NeuroSignals, 2001, 10, 93-111. | 0.5 | 99 |
| 115 | Mitochondrial Creatine Kinase and Mitochondrial Outer Membrane Porin Show a Direct Interaction That Is Modulated by Calcium. Journal of Biological Chemistry, 2001, 276, 48027-48030. | 1.6 | 92 |
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| 119 | Vacuolar morphology and cell cycle distribution are modified by leucine limitation in auxotrophic Saccharomyces cerevisiae. Biology of the Cell, 2000, 92, 629-637. | 0.7 | 12 |
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| 121 | A quantitative approach to membrane binding of human ubiquitous mitochondrial creatine kinase using surface plasmon resonance. Journal of Bioenergetics and Biomembranes, 2000, 32, 123-131. | 1.0 | 32 |
| 122 | Coupling of creatine kinase to glycolytic enzymes at the sarcomeric I-band of skeletal muscle: a biochemical study in situ. Journal of Muscle Research and Cell Motility, 2000, 21, 691-703. | 0.9 | 63 |
| 123 | Isoenzyme-Specific Interaction of Muscle-Type Creatine Kinase with the Sarcomeric M-Line Is Mediated by Nh2-Terminal Lysine Charge-Clamps. Journal of Cell Biology, 2000, 149, 1225-1234. | 2.3 | 78 |
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| 125 | Divergent Enzyme Kinetics and Structural Properties of the Two Human Mitochondrial Creatine Kinase Isoenzymes. Biological Chemistry, 2000, 381, 1063-70. | 1.2 | 44 |
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| 130 | Stimulation of mitochondrial gene expression and proliferation of mitochondria following impairment of cellular energy transfer by inhibition of the phosphocreatine circuit in rat hearts. Journal of Bioenergetics and Biomembranes, 1999, 31, 559-567. | 1.0 | 46 |
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| 132 | Octamer-dimer Transitions of Mitochondrial Creatine Kinase in Heart Disease. Journal of Molecular and Cellular Cardiology, 1999, 31, 857-866. | 0.9 | 57 |
| 133 | Crystallization of the Human, Mitochondrial Voltage-Dependent Anion-Selective Channel in the Presence of Phospholipids. Journal of Structural Biology, 1999, 127, 64-71. | 1.3 | 64 |
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| 150 | Brain ATP Metabolism in Hypoxia Resistant Mice Fed Guanidinopropionic Acid. Developmental Neuroscience, 1998, 20, 469-477. | 1.0 | 15 |
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| 152 | Oligomeric state and membrane binding behaviour of creatine kinase isoenzymes: Implications for cellular function and mitochondrial structure. , 1998, , 141-151. | | 1 |
| 153 | Functional aspects of the X-ray structure of mitochondrial creatine kinase: A molecular physiology approach. , 1998, , 125-140. | | 1 |
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| 157 | In vivo brain phosphocreatine and ATP regulation in mice fed a creatine analog. American Journal of Physiology - Cell Physiology, 1997, 272, C1567-C1577. | 2.1 | 33 |
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