

Axel Kowald

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,789
citations

236833

25
h-index

276775

41
g-index

55
all docs

55
docs citations

55
times ranked

2465
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Biomarkers of geroprotection and cardiovascular health: An overview of omics studies and established clinical biomarkers in the context of diet. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 2426-2446. | 5.4 | 5 |
| 2 | Senolytics and the compression of late-life mortality. <i>Experimental Gerontology</i> , 2021, 155, 111588. | 1.2 | 11 |
| 3 | Disposable Soma Aging Theory. , 2021, , 1481-1487. | | 0 |
| 4 | Single-cell analyses of aging, inflammation and senescence. <i>Ageing Research Reviews</i> , 2020, 64, 101156. | 5.0 | 85 |
| 5 | On the evolution of cellular senescence. <i>Aging Cell</i> , 2020, 19, e13270. | 3.0 | 84 |
| 6 | The preventive strategy for pandemics in the elderly is to collect in advance samples & data to counteract chronic inflammation (inflammaging). <i>Ageing Research Reviews</i> , 2020, 62, 101091. | 5.0 | 20 |
| 7 | Towards biomarkers for outcomes after pancreatic ductal adenocarcinoma and ischaemic stroke, with focus on (co)-morbidity and ageing/cellular senescence (SASKit): protocol for a prospective cohort study. <i>BMJ Open</i> , 2020, 10, e039560. | 0.8 | 5 |
| 8 | Disposable Soma Aging Theory. , 2019, , 1-6. | | 0 |
| 9 | Resolving the Enigma of the Clonal Expansion of mtDNA Deletions. <i>Genes</i> , 2018, 9, 126. | 1.0 | 31 |
| 10 | Can aging be programmed? A critical literature review. <i>Aging Cell</i> , 2016, 15, 986-998. | 3.0 | 114 |
| 11 | Telomere Length in Peripheral Blood Mononuclear Cells of Patients on Chronic Hemodialysis Is Related With Telomerase Activity and Treatment Duration. <i>Artificial Organs</i> , 2015, 39, 756-764. | 1.0 | 12 |
| 12 | Evolutionary significance of ageing in the wild. <i>Experimental Gerontology</i> , 2015, 71, 89-94. | 1.2 | 28 |
| 13 | Transcription could be the key to the selection advantage of mitochondrial deletion mutants in aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2972-2977. | 3.3 | 54 |
| 14 | Mitochondrial mutations and ageing: Can mitochondrial deletion mutants accumulate via a size based replication advantage?. <i>Journal of Theoretical Biology</i> , 2014, 340, 111-118. | 0.8 | 28 |
| 15 | Quality matters: how does mitochondrial network dynamics and quality control impact on mtDNA integrity?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130442. | 1.8 | 63 |
| 16 | Mathematical Models of Mitochondrial Aging and Dynamics. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 127, 63-92. | 0.9 | 15 |
| 17 | Mitochondrial mutations and aging: random drift is insufficient to explain the accumulation of mitochondrial deletion mutants in short-lived animals. <i>Aging Cell</i> , 2013, 12, 728-731. | 3.0 | 40 |
| 18 | Serum autoantibodies for discovery of prostate cancer specific biomarkers. <i>Prostate</i> , 2012, 72, 427-436. | 1.2 | 33 |

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|----|---|-----|-----------|
| 19 | The free radical theory of ageing – older, wiser and still alive. <i>BioEssays</i> , 2012, 34, 692-700. | 1.2 | 108 |
| 20 | A systems biological analysis links ROS metabolism to mitochondrial protein quality control. <i>Mechanisms of Ageing and Development</i> , 2012, 133, 331-337. | 2.2 | 43 |
| 21 | Investigation of autoantibody profiles for cerebrospinal fluid biomarker discovery in patients with relapsing-remitting multiple sclerosis. <i>Journal of Neuroimmunology</i> , 2012, 242, 26-32. | 1.1 | 18 |
| 22 | Standards, Tools, and Databases for the Analysis of Yeast –Omics Data. <i>Methods in Molecular Biology</i> , 2011, 759, 345-365. | 0.4 | 2 |
| 23 | A mathematical model of HIV dynamics in the presence of a rescuing virus with replication deficiency. <i>Theory in Biosciences</i> , 2011, 130, 127-134. | 0.6 | 5 |
| 24 | The evolution and role of mitochondrial fusion and fission in aging and disease. <i>Communicative and Integrative Biology</i> , 2011, 4, 627-629. | 0.6 | 10 |
| 25 | Evolution of the mitochondrial fusion-fission cycle and its role in aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10237-10242. | 3.3 | 113 |
| 26 | Text Mining for Systems Modeling. <i>Methods in Molecular Biology</i> , 2011, 696, 305-318. | 0.4 | 5 |
| 27 | The glyoxalase system as an example of a cellular maintenance pathway with relevance to aging. <i>Aging</i> , 2011, 3, 17-18. | 1.4 | 2 |
| 28 | The evolution and role of mitochondrial fusion and fission in aging and disease. <i>Communicative and Integrative Biology</i> , 2011, 4, 627-9. | 0.6 | 7 |
| 29 | Forest classification trees and forest support vector machines algorithms: Demonstration using microarray data. <i>Computers in Biology and Medicine</i> , 2010, 40, 519-524. | 3.9 | 11 |
| 30 | Mathematical Modeling of the Aging Process. , 2009, , 312-330. | | 1 |
| 31 | Off-target activity of TNF- α inhibitors characterized by protein biochips. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1713-1720. | 1.9 | 25 |
| 32 | A tree-based decision rule for identifying profile groups of cases without predefined classes: application in diffuse large B-cell lymphomas. <i>Computers in Biology and Medicine</i> , 2007, 37, 637-641. | 3.9 | 14 |
| 33 | Systems biology standards – the community speaks. <i>Nature Biotechnology</i> , 2007, 25, 390-391. | 9.4 | 87 |
| 34 | A modelling approach to quantify dynamic crosstalk between the pheromone and the starvation pathway in baker's yeast. <i>FEBS Journal</i> , 2006, 273, 3520-3533. | 2.2 | 31 |
| 35 | Non-parametric classification of protein secondary structures. <i>Computers in Biology and Medicine</i> , 2006, 36, 145-156. | 3.9 | 9 |
| 36 | Alternative pathways as mechanism for the negative effects associated with overexpression of superoxide dismutase. <i>Journal of Theoretical Biology</i> , 2006, 238, 828-840. | 0.8 | 42 |

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|----|--|-----|-----------|
| 37 | Estimation of the mtDNA mutation rate in aging mice by proteome analysis and mathematical modeling. <i>Experimental Gerontology</i> , 2006, 41, 11-24. | 1.2 | 30 |
| 38 | New Analytical Tools for Studying Autoimmune Diseases. <i>Current Pharmaceutical Design</i> , 2006, 12, 3735-42. | 0.9 | 7 |
| 39 | Critique of directionality theory. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 1183-1186. | 1.2 | 2 |
| 40 | On the relevance of mitochondrial fusions for the accumulation of mitochondrial deletion mutants: A modelling study. <i>Aging Cell</i> , 2005, 4, 273-283. | 3.0 | 43 |
| 41 | Morpho-dynamic changes of mitochondria during ageing of human endothelial cells. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 813-821. | 2.2 | 140 |
| 42 | Directionality theory: a computational study of an entropic principle in evolutionary processes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 741-749. | 1.2 | 15 |
| 43 | Profiling of Alopecia Areata Autoantigens Based on Protein Microarray Technology. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1382-1390. | 2.5 | 67 |
| 44 | Alternative Pathways Might Mediate Toxicity of High Concentrations of Superoxide Dismutase. <i>Annals of the New York Academy of Sciences</i> , 2004, 1019, 370-374. | 1.8 | 28 |
| 45 | Finding Kinetic Parameters Using Text Mining. <i>OMICS A Journal of Integrative Biology</i> , 2004, 8, 131-152. | 1.0 | 47 |
| 46 | Lifespan does not measure ageing. <i>Biogerontology</i> , 2002, 3, 187-190. | 2.0 | 33 |
| 47 | The Mitochondrial Theory of Aging. <i>NeuroSignals</i> , 2001, 10, 162-175. | 0.5 | 45 |
| 48 | Accumulation of Defective Mitochondria through Delayed Degradation of Damaged Organelles and Its Possible Role in the Ageing of Post-mitotic and Dividing Cells. <i>Journal of Theoretical Biology</i> , 2000, 202, 145-160. | 0.8 | 114 |
| 49 | Modeling the Role of Mitochondrial Mutations in Cellular Aging. <i>Rejuvenation Research</i> , 1999, 2, 243-253. | 0.2 | 4 |
| 50 | A comparison of amino acid distance measures using procrustes analysis. <i>Computers in Biology and Medicine</i> , 1999, 29, 283-288. | 3.9 | 4 |
| 51 | Theoretical Compertzian implications on life span variability among genotypically identical animals. <i>Mechanisms of Ageing and Development</i> , 1999, 110, 101-107. | 2.2 | 3 |
| 52 | The mitochondrial theory of aging: Do damaged mitochondria accumulate by delayed degradation?. <i>Experimental Gerontology</i> , 1999, 34, 605-612. | 1.2 | 46 |