# Andreas S Reichert

List of Publications by Year
in descending order



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|---|---|---|---|
| 102 papers | 17,479 citations | 34105 52 h-index | 33894 99 g-index |
| 111 all docs | 111 docs citations | 111 times ranked | 28565 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222. | 9.1 | 4,701 |
| 2 | Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544. | 9.1 | 3,122 |
| 3 | Nix is a selective autophagy receptor for mitochondrial clearance. EMBO Reports, 2010, 11, 45-51. | 4.5 | 1,045 |
| 4 | Loss-of-Function of Human PINK1 Results in Mitochondrial Pathology and Can Be Rescued by Parkin. Journal of Neuroscience, 2007, 27, 12413-12418. | 3.6 | 466 |
| 5 | Proteolytic Processing of OPA1 Links Mitochondrial Dysfunction to Alterations in Mitochondrial Morphology. Journal of Biological Chemistry, 2006, 281, 37972-37979. | 3.4 | 382 |
| 6 | Mitophagy is triggered by mild oxidative stress in a mitochondrial fission dependent manner. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 2297-2310. | 4.1 | 373 |
| 7 | Cristae formationâ€"linking ultrastructure and function of mitochondria. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 5-19. | 4.1 | 357 |
| 8 | Loss of Parkin or PINK1 Function Increases Drp1-dependent Mitochondrial Fragmentation. Journal of Biological Chemistry, 2009, 284, 22938-22951. | 3.4 | 355 |
| 9 | Dynamic subcompartmentalization of the mitochondrial inner membrane. Journal of Cell Biology, 2006, 175, 237-247. | 5.2 | 346 |
| 10 | Processing of Mgm1 by the Rhomboid-type Protease Pcp1 Is Required for Maintenance of Mitochondrial Morphology and of Mitochondrial DNA. Journal of Biological Chemistry, 2003, 278, 27781-27788. | 3.4 | 327 |
| 11 | Parkinson Phenotype in Aged PINK1-Deficient Mice Is Accompanied by Progressive Mitochondrial Dysfunction in Absence of Neurodegeneration. PLoS ONE, 2009, 4, e5777. | 2.5 | 305 |
| 12 | Mitochondrion-Derived Reactive Oxygen Species Lead to Enhanced Amyloid Beta Formation. Antioxidants and Redox Signaling, 2012, 16, 1421-1433. | 5.4 | 273 |
| 13 | Formation of cristae and crista junctions in mitochondria depends on antagonism between Fcj1 and Su <i>e</i>/<i>g</i>. Journal of Cell Biology, 2009, 185, 1047-1063. | 5.2 | 271 |
| 14 | Complexome Profiling Identifies TMEM126B as a Component of the Mitochondrial Complex I Assembly Complex. Cell Metabolism, 2012, 16, 538-549. | 16.2 | 252 |
| 15 | Uniform nomenclature for the mitochondrial contact site and cristae organizing system. Journal of Cell Biology, 2014, 204, 1083-1086. | 5.2 | 219 |
| 16 | Individual cristae within the same mitochondrion display different membrane potentials and are functionally independent. EMBO Journal, 2019, 38, e101056. | 7.8 | 204 |
| 17 | Alternative topogenesis of Mgm1 and mitochondrial morphology depend on ATP and a functional import motor. Journal of Cell Biology, 2004, 165, 167-173. | 5.2 | 203 |
| 18 | OPA1 Processing Reconstituted in Yeast Depends on the Subunit Composition of the m-AAA Protease in Mitochondria. Molecular Biology of the Cell, 2007, 18, 3582-3590. | 2.1 | 162 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Loss of mitochondrial peptidase Clpp leads to infertility, hearing loss plus growth retardation via accumulation of CLPX, mtDNA and inflammatory factors. Human Molecular Genetics, 2013, 22, 4871-4887. | 2.9 | 151 |
| 20 | Mitophagy in yeast is independent of mitochondrial fission and requires the stress response gene <i>WHI2</i>. Journal of Cell Science, 2011, 124, 1339-1350. | 2.0 | 147 |
| 21 | Mitochondriomics or what makes us breathe. Trends in Genetics, 2004, 20, 555-562. | 6.7 | 145 |
| 22 | Mammalian mitochondria have the innate ability to import tRNAs by a mechanism distinct from protein import. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9186-9191. | 7.1 | 135 |
| 23 | Mitochondrial Membrane Potential Is Dependent on the Oligomeric State of F1F0-ATP Synthase Supracomplexes*. Journal of Biological Chemistry, 2006, 281, 13990-13998. | 3.4 | 131 |
| 24 | APOOL Is a Cardiolipin-Binding Constituent of the Mitofilin/MINOS Protein Complex Determining Cristae Morphology in Mammalian Mitochondria. PLoS ONE, 2013, 8, e63683. | 2.5 | 130 |
| 25 | From Mitochondrial Dysfunction to Amyloid Beta Formation: Novel Insights into the Pathogenesis of Alzheimerâ€™s Disease. Molecular Neurobiology, 2012, 46, 186-193. | 4.0 | 125 |
| 26 | SNCA (Î±-synuclein)-induced toxicity in yeast cells is dependent on Sir2-mediated mitophagy. Autophagy, 2012, 8, 1494-1509. | 9.1 | 113 |
| 27 | A New Link to Mitochondrial Impairment in Tauopathies. Molecular Neurobiology, 2012, 46, 205-216. | 4.0 | 109 |
| 28 | SIRT4 interacts with OPA1 and regulates mitochondrial quality control and mitophagy. Aging, 2017, 9, 2163-2189. | 3.1 | 108 |
| 29 | Cristae undergo continuous cycles of membrane remodelling in a <scp>MICOS</scp> â€dependent manner. EMBO Reports, 2020, 21, e49776. | 4.5 | 106 |
| 30 | Genetic and structural characterization of the human mitochondrial inner membrane translocase 1 1Edited by J. Karn. Journal of Molecular Biology, 1999, 289, 69-82. | 4.2 | 105 |
| 31 | Contact sites between the outer and inner membrane of mitochondriaâ€"role in protein transport. Biochimica Et Biophysica Acta - Molecular Cell Research, 2002, 1592, 41-49. | 4.1 | 101 |
| 32 | Mitochondrial Dysfunction and Decrease in Body Weight of a Transgenic Knock-in Mouse Model for TDP-43. Journal of Biological Chemistry, 2014, 289, 10769-10784. | 3.4 | 100 |
| 33 | Impaired quality control of mitochondria: Aging from a new perspective. Experimental Gerontology, 2010, 45, 503-511. | 2.8 | 98 |
| 34 | The C-terminal domain of Fcj1 is required for formation of crista junctions and interacts with the TOB/SAM complex in mitochondria. Molecular Biology of the Cell, 2012, 23, 2143-2155. | 2.1 | 98 |
| 35 | Simultaneous impairment of mitochondrial fission and fusion reduces mitophagy and shortens replicative lifespan. Scientific Reports, 2015, 5, 7885. | 3.3 | 93 |
| 36 | Distinct roles of the two isoforms of the dynaminâ€like GTPase Mgm1 in mitochondrial fusion. FEBS Letters, 2009, 583, 2237-2243. | 2.8 | 85 |

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|---|---|---|---|
| 37 | Cristae Membrane Dynamics â€“ A Paradigm Change. Trends in Cell Biology, 2020, 30, 923-936. | 7.9 | 82 |
| 38 | Deceleration of Fusionâ€“Fission Cycles Improves Mitochondrial Quality Control during Aging. PLoS Computational Biology, 2012, 8, e1002576. | 3.2 | 81 |
| 39 | How to get rid of mitochondria: crosstalk and regulation of multiple mitophagy pathways. Biological Chemistry, 2017, 399, 29-45. | 2.5 | 77 |
| 40 | Nanotherapy and Reactive Oxygen Species (ROS) in Cancer: A Novel Perspective. Antioxidants, 2018, 7, 31. | 5.1 | 75 |
| 41 | OPA1 functionally interacts with MIC60 but is dispensable for crista junction formation. FEBS Letters, 2016, 590, 3309-3322. | 2.8 | 74 |
| 42 | Crystal Structure of the Human CCA-adding Enzyme: Insights into Template-independent Polymerization. Journal of Molecular Biology, 2003, 328, 985-994. | 4.2 | 71 |
| 43 | Cristae architecture is determined by an interplay of the MICOS complex and the F1Fo ATP synthase via Mic27 and Mic10. Microbial Cell, 2017, 4, 259-272. | 3.2 | 71 |
| 44 | Emergence of the Mitochondrial Reticulum from Fission and Fusion Dynamics. PLoS Computational Biology, 2012, 8, e1002745. | 3.2 | 68 |
| 45 | <i>TigarB</i> causes mitochondrial dysfunction and neuronal loss in PINK1 deficiency. Annals of Neurology, 2013, 74, 837-847. | 5.3 | 68 |
| 46 | Functional Interplay between Cristae Biogenesis, Mitochondrial Dynamics and Mitochondrial DNA Integrity. International Journal of Molecular Sciences, 2019, 20, 4311. | 4.1 | 68 |
| 47 | The non-glycosylated isoform of MIC26 is a constituent of the mammalian MICOS complex and promotes formation of crista junctions. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1551-1563. | 4.1 | 67 |
| 48 | Mic13 Is Essential for Formation of Crista Junctions in Mammalian Cells. PLoS ONE, 2016, 11, e0160258. | 2.5 | 66 |
| 49 | Synthetic Quantitative Array Technology Identifies the Ubp3-Bre5 Deubiquitinase Complex as a Negative Regulator of Mitophagy. Cell Reports, 2015, 10, 1215-1225. | 6.4 | 57 |
| 50 | Differential Analysis of Saccharomyces cerevisiae Mitochondria by Free Flow Electrophoresis. Molecular and Cellular Proteomics, 2006, 5, 2185-2200. | 3.8 | 56 |
| 51 | Amyloid precursor protein intracellular domain modulates cellular calcium homeostasis and ATP content. Journal of Neurochemistry, 2007, 102, 1264-1275. | 3.9 | 56 |
| 52 | Mitochondrial Targeting Adaptation of the Hominoid-Specific Glutamate Dehydrogenase Driven by Positive Darwinian Selection. PLoS Genetics, 2008, 4, e1000150. | 3.5 | 54 |
| 53 | Processing and Editing of Overlapping tRNAs in Human Mitochondria. Journal of Biological Chemistry, 1998, 273, 31977-31984. | 3.4 | 46 |
| 54 | Mitophagy, mitochondrial dynamics and the general stress response in yeast. Biochemical Society Transactions, 2011, 39, 1514-1519. | 3.4 | 44 |

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| 55 | TIM23-mediated insertion of transmembrane Î±-helices into the mitochondrial inner membrane. EMBO Journal, 2011, 30, 1003-1011. | 7.8 | 42 |
| 56 | Mrpl36 Is Important for Generation of Assembly Competent Proteins during Mitochondrial Translation. Molecular Biology of the Cell, 2009, 20, 2615-2625. | 2.1 | 40 |
| 57 | Hodgkin and Reed-Sternberg cells of classical Hodgkin lymphoma are highly dependent on oxidative phosphorylation. International Journal of Cancer, 2016, 138, 2231-2246. | 5.1 | 37 |
| 58 | Repair of tRNAs in metazoan mitochondria. Nucleic Acids Research, 2000, 28, 2043-2048. | 14.5 | 34 |
| 59 | MIC26 and MIC27 cooperate to regulate cardiolipin levels and the landscape of OXPHOS complexes. Life Science Alliance, 2020, 3, e202000711. | 2.8 | 34 |
| 60 | Novel intracellular functions of apolipoproteins: the ApoO protein family as constituents of the Mitofilin/MINOS complex determines cristae morphology in mitochondria. Biological Chemistry, 2014, 395, 285-296. | 2.5 | 33 |
| 61 | Mitophagy and mitochondrial dynamics in Saccharomyces cerevisiae. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2766-2774. | 4.1 | 33 |
| 62 | Intramembrane Proteolysis of Mgm1 by the Mitochondrial Rhomboid Protease Is Highly Promiscuous Regarding the Sequence of the Cleaved Hydrophobic Segment. Journal of Molecular Biology, 2010, 401, 182-193. | 4.2 | 32 |
| 63 | Rapid Single-Step Affinity Purification of HA-Tagged Plant Mitochondria. Plant Physiology, 2020, 182, 692-706. | 4.8 | 30 |
| 64 | Emerging Roles of the MICOS Complex in Cristae Dynamics and Biogenesis. Biology, 2021, 10, 600. | 2.8 | 29 |
| 65 | Linking transport and translation of mRNAs with endosomes and mitochondria. EMBO Reports, 2021, 22, e52445. | 4.5 | 29 |
| 66 | Emerging roles of mitochondrial membrane dynamics in health and disease. Biological Chemistry, 2009, 390, 707-15. | 2.5 | 27 |
| 67 | The mycotoxin phomoxanthone A disturbs the form and function of the inner mitochondrial membrane. Cell Death and Disease, 2018, 9, 286. | 6.3 | 27 |
| 68 | Modulation of oxidative phosphorylation and redox homeostasis in mitochondrial NDUFS4 deficiency via mesenchymal stem cells. Stem Cell Research and Therapy, 2017, 8, 150. | 5.5 | 26 |
| 69 | Quality control of mitochondria during aging: Is there a good and a bad side of mitochondrial dynamics?. BioEssays, 2013, 35, 314-322. | 2.5 | 24 |
| 70 | Hepatic encephalopathy is linked to alterations of autophagic flux in astrocytes. EBioMedicine, 2019, 48, 539-553. | 6.1 | 24 |
| 71 | Ammonia inhibits energy metabolism in astrocytes in a rapid and glutamate dehydrogenase 2-dependent manner. DMM Disease Models and Mechanisms, 2020, 13, . | 2.4 | 24 |
| 72 | Metabolic responsiveness to training depends on insulin sensitivity and protein content of exosomes in insulin-resistant males. Science Advances, 2021, 7, eabi9551. | 10.3 | 24 |

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| 73 | Common Principles and Specific Mechanisms of Mitophagy from Yeast to Humans. International Journal of Molecular Sciences, 2021, 22, 4363. | 4.1 | 23 |
| 74 | Protease OMA1 modulates mitochondrial bioenergetics and ultrastructure through dynamic association with MICOS complex. IScience, 2021, 24, 102119. | 4.1 | 22 |
| 75 | Controlling quality and amount of mitochondria by mitophagy: insights into the role of ubiquitination and deubiquitination. Biological Chemistry, 2016, 397, 637-647. | 2.5 | 21 |
| 76 | The relevance of mitochondrial morphology for human disease. International Journal of Biochemistry and Cell Biology, 2021, 134, 105951. | 2.8 | 21 |
| 77 | CNP mediated selective toxicity on melanoma cells is accompanied by mitochondrial dysfunction. PLoS ONE, 2020, 15, e0227926. | 2.5 | 20 |
| 78 | In vitro selective cytotoxicity of the dietary chalcone cardamonin (CD) on melanoma compared to healthy cells is mediated by apoptosis. PLoS ONE, 2019, 14, e0222267. | 2.5 | 19 |
| 79 | Subcellular Localization and Mitotic Interactome Analyses Identify SIRT4 as a Centrosomally Localized and Microtubule Associated Protein. Cells, 2020, 9, 1950. | 4.1 | 19 |
| 80 | Endogenous Carbon Monoxide Signaling Modulates Mitochondrial Function and Intracellular Glucose Utilization: Impact of the Heme Oxygenase Substrate Hemin. Antioxidants, 2020, 9, 652. | 5.1 | 18 |
| 81 | Impaired Hepatic Mitochondrial Capacity in Nonalcoholic Steatohepatitis Associated With Type 2 Diabetes. Diabetes Care, 2022, 45, 928-937. | 8.6 | 18 |
| 82 | How to split up: lessons from mitochondria. EMBO Journal, 2011, 30, 2751-2753. | 7.8 | 15 |
| 83 | Impact of Amyloid-Î² on Platelet Mitochondrial Function and Plateletâ€"Mediated Amyloid Aggregation in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 9633. | 4.1 | 14 |
| 84 | High-throughput screening for natural compound-based autophagy modulators reveals novel chemotherapeutic mode of action for arzanol. Cell Death and Disease, 2021, 12, 560. | 6.3 | 8 |
| 85 | Conserved GxxxG and WN motifs of MIC13 are essential for bridging two MICOS subcomplexes. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183683. | 2.6 | 8 |
| 86 | Selectively Addressing Mitochondrial Glutathione and Thioredoxin Redox Systems. Cell Chemical Biology, 2019, 26, 316-318. | 5.2 | 7 |
| 87 | Purification and Characterization of Human Cell-Cell Adhesion Molecule 1 (C-CAM1) Expressed in Insect Cells. Protein Expression and Purification, 2001, 21, 343-351. | 1.3 | 6 |
| 88 | The BH3 mimetic compound BH3I-1 impairs mitochondrial dynamics and promotes stress response in addition to its pro-apoptotic key function. Toxicology Letters, 2018, 295, 369-378. | 0.8 | 6 |
| 89 | Distinct influence of the anthracycline derivative doxorubicin on the differentiation efficacy of mESC-derived endothelial progenitor cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118711. | 4.1 | 6 |
| 90 | GantryMate: A Modular MR-Compatible Assistance System for MR-Guided Needle Interventions. Tomography, 2019, 5, 266-273. | 1.8 | 6 |

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| 91 | Carbon monoxide releasing molecule 401 (CORM-401) modulates phase I metabolism of xenobiotics. Toxicology in Vitro, 2019, 59, 215-220. | 2.4 | 5 |
| 92 | Rapid metabolic and bioenergetic adaptations of astrocytes under hyperammonemiaÂâ€“ a novel perspective on hepatic encephalopathy. Biological Chemistry, 2021, 402, 1103-1113. | 2.5 | 5 |
| 93 | Simultaneous slice excitation for accelerated passive marker tracking via phase-only cross correlation (POCC) in MR-guided needle interventions. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 781-788. | 2.0 | 4 |
| 94 | Data supporting the role of the non-glycosylated isoform of MIC26 in determining cristae morphology. Data in Brief, 2015, 4, 135-139. | 1.0 | 3 |
| 95 | Autophagy promotes mitochondrial respiration by providing serine for one-carbon-metabolism. Autophagy, 2021, 17, 4480-4483. | 9.1 | 3 |
| 96 | Mitophagy and deubiquitination in yeast â€“ the power of synthetic quantitative array technology. Molecular and Cellular Oncology, 2016, 3, e1038422. | 0.7 | 2 |
| 97 | Magnetic Resonance Imaging of Venous Stents at 1.5 T. Investigative Radiology, 2020, 55, 741-746. | 6.2 | 2 |
| 98 | Passive needle guide tracking with radial acquisition and phaseâ€only crossâ€correlation. Magnetic Resonance in Medicine, 2021, 85, 1039-1046. | 3.0 | 1 |
| 99 | 19 Analysis of Gene Function of Mitochondria. Methods in Microbiology, 2007, 36, 445-489. | 0.8 | 0 |
| 100 | Pcp1 Protein (Yeast). , 2013, , 3567-3572. | | 0 |
| 101 | Highlight issue: membranes in motion. Biological Chemistry, 2014, 395, 251-251. | 2.5 | 0 |
| 102 | Mesenchymal stem cells improve redox homeostasis and mitochondrial respiration in fibroblast cell lines with pathogenic MT-ND3 and MT-ND6 variants. Stem Cell Research and Therapy, 2022, 13, . | 5.5 | 0 |