Jan Riemer

List of Publications by Year
in descending order

43 papers	2,578 citations	201674 27 h-index	265206 42 g-index
43 all docs	43 docs citations	43 times ranked	3477 citing authors

#	Article	IF	Citations
1	Disulfide Formation in the ER and Mitochondria: Two Solutions to a Common Process. Science, 2009, 324, 1284-1287.	12.6	227
2	Mitochondrial Disulfide Bond Formation Is Driven by Intersubunit Electron Transfer in Erv1 and Proofread by Glutathione. Molecular Cell, 2010, 37, 516-528.	9.7	158
3	Glutathione redox potential in the mitochondrial intermembrane space is linked to the cytosol and impacts the Mia40 redox state. EMBO Journal, 2012, 31, 3169-3182.	7.8	154
4	The Ca2+-Dependent Release of the Mia40-Induced MICU1-MICU2 Dimer from MCU Regulates Mitochondrial Ca2+ Uptake. Cell Metabolism, 2015, 22, 721-733.	16.2	154
5	Profiling Ssb-Nascent Chain Interactions Reveals Principles of Hsp70-Assisted Folding. Cell, 2017, 170, 298-311.e20.	28.9	154
6	Systematic Analysis of the Twin Cx9C Protein Family. Journal of Molecular Biology, 2009, 393, 356-368.	4.2	153
7	Mitochondrial Glutathione: Regulation and Functions. Antioxidants and Redox Signaling, 2017, 27, 1162-1177.	5.4	120
8	The Intermembrane Space of Mitochondria. Antioxidants and Redox Signaling, 2010, 13, 1341-1358.	5.4	117
9	Lipid signalling drives proteolytic rewiring of mitochondria by YME1L. Nature, 2019, 575, 361-365.	27.8	116
10	Protein import and oxidative folding in the mitochondrial intermembrane space of intact mammalian cells. Molecular Biology of the Cell, 2013, 24, 2160-2170.	2.1	105
11	Atp23 biogenesis reveals a chaperone-like folding activity of Mia40 in the IMS of mitochondria. EMBO Journal, 2012, 31, 4348-4358.	7.8	80
12	A salvage pathway maintains highly functional respiratory complex I. Nature Communications, 2020, 11, 1643.	12.8	80
13	The Mitochondrial Disulfide Relay System: Roles in Oxidative Protein Folding and Beyond. International Journal of Cell Biology, 2013, 2013, 1-12.	2.5	79
14	Mutations in the accessory subunitNDUFB10result in isolated complex I deficiency and illustrate the critical role of intermembrane space import for complex I holoenzyme assembly. Human Molecular Genetics, 2017, 26, ddw431.	2.9	64
15	Kinetic control by limiting glutaredoxin amounts enables thiol oxidation in the reducing mitochondrial intermembrane space. Molecular Biology of the Cell, 2015, 26, 195-204.	2.1	59
16	The Disulfide Relay of the Intermembrane Space Oxidizes the Ribosomal Subunit Mrp10 on Its Transit into the Mitochondrial Matrix. Developmental Cell, 2014, 28, 30-42.	7.0	58
17	Balancing oxidative protein folding: The influences of reducing pathways on disulfide bond formation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1383-1390.	2.3	58
18	Mia40-dependent oxidation of cysteines in domain I of Ccs1 controls its distribution between mitochondria and the cytosol. Molecular Biology of the Cell, 2011, 22, 3749-3757.	2.1	54

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19	Oxidation-driven protein import into mitochondria: Insights and blind spots. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 981-989.	2.6	50
20	Hyperoxidation of mitochondrial peroxiredoxin limits H ₂ O ₂ â€induced cell death in yeast. EMBO Journal, 2019, 38, e101552.	7.8	50
21	Transit of H2O2 across the endoplasmic reticulum membrane is not sluggish. Free Radical Biology and Medicine, 2016, 94, 157-160.	2.9	48
22	Mitochondria shed their outer membrane in response to infection-induced stress. Science, 2022, 375, eabi4343.	12.6	42
23	Spatial and temporal control of mitochondrial H ₂ O ₂ release in intact human cells. EMBO Journal, 2022, 41, e109169.	7.8	39
24	Cysteine residues in mitochondrial intermembrane space proteins: more than just import. British Journal of Pharmacology, 2019, 176, 514-531.	5.4	36
25	Mechanisms and Applications of Redox-Sensitive Green Fluorescent Protein-Based Hydrogen Peroxide Probes. Antioxidants and Redox Signaling, 2018, 29, 552-568.	5.4	33
26	Vectorial Import via a Metastable Disulfide-Linked Complex Allows for a Quality Control Step and Import by the Mitochondrial Disulfide Relay. Cell Reports, 2019, 26, 759-774.e5.	6.4	33
27	Axonal Transport and Mitochondrial Dysfunction in Alzheimer's Disease. Neurodegenerative Diseases, 2013, 12, 111-124.	1.4	32
28	Apoptosis inducing factor and mitochondrial NADH dehydrogenases: redox-controlled gear boxes to switch between mitochondrial biogenesis and cell death. Biological Chemistry, 2021, 402, 289-297.	2.5	30
29	Oxidative protein folding: stateâ€ofâ€theâ€art and current avenues of research in plants. New Phytologist, 2019, 221, 1230-1246.	7.3	29
30	Proteasomal degradation induced by DPP9â€mediated processing competes with mitochondrial protein import. EMBO Journal, 2020, 39, e103889.	7.8	24
31	Mitochondrial disulfide relay and its substrates: mechanisms in health and disease. Cell and Tissue Research, 2017, 367, 59-72.	2.9	23
32	The mitochondrial oxidoreductase CHCHD4 is present in a semi-oxidized state in vivo. Redox Biology, 2018, 17, 200-206.	9.0	18
33	When bacteria meet mitochondria: The strange case of the tick symbiont Midichloria mitochondrii ^{â€}. Cellular Microbiology, 2020, 22, e13189.	2.1	18
34	Protein oxidation in the intermembrane space of mitochondria is substrate-specific rather than general. Microbial Cell, 2014, 1, 81-93.	3.2	17
35	Protein import by the mitochondrial disulfide relay in higher eukaryotes. Biological Chemistry, 2020, 401, 749-763.	2.5	16
36	The C-terminal region of the oxidoreductase MIA40 stabilizes its cytosolic precursor during mitochondrial import. BMC Biology, 2020, 18, 96.	3.8	14

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37	Plasticity in salt bridge allows fusion-competent ubiquitylation of mitofusins and Cdc48 recognition. Life Science Alliance, 2019, 2, e201900491.	2.8	10
38	Mechanisms and physiological impact of the dual localization of mitochondrial intermembrane space proteins. Biochemical Society Transactions, 2014, 42, 952-958.	3.4	8
39	Stop wasting proteinâ€"Proteasome inhibition to target diseases linked to mitochondrial import. EMBO Molecular Medicine, 2019, 11, .	6.9	6
40	Protein Import Assay into Mitochondria Isolated from Human Cells. Bio-protocol, 2021, 11, e4057.	0.4	5
41	Erv1 and Cytochrome c Mediate Rapid Electron Transfer via A Collision-Type Interaction. Journal of Molecular Biology, 2021, 433, 167045.	4.2	5
42	Detection of Cysteine Redox States in Mitochondrial Proteins in Intact Mammalian Cells. Methods in Molecular Biology, 2017, 1567, 105-138.	0.9	2
43	Calcium and redox signals at mitochondrial interfaces: A nanoview perspective. Cell Calcium, 2022, 103, 102550.	2.4	0