Kostas Tokatlidis

List of Publications by Year
in descending order

67 papers	3,671 citations	136950 32 h-index	128289 60 g-index
71 all docs	71 docs citations	71 times ranked	3175 citing authors

#	Article	IF	Citations
1	Import of Mitochondrial Carriers Mediated by Essential Proteins of the Intermembrane Space. Science, 1998, 279, 369-373.	12.6	289
2	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). Redox Biology, 2017, 13, 94-162.	9.0	242
3	MIA40 is an oxidoreductase that catalyzes oxidative protein folding in mitochondria. Nature Structural and Molecular Biology, 2009, 16, 198-206.	8.2	230
4	Erv1 Mediates the Mia40-dependent Protein Import Pathway and Provides a Functional Link to the Respiratory Chain by Shuttling Electrons to Cytochrome c. Journal of Molecular Biology, 2005, 353, 937-944.	4.2	205
5	Interaction between AIF and CHCHD4 Regulates Respiratory Chain Biogenesis. Molecular Cell, 2015, 58, 1001-1014.	9.7	164
6	Interaction of the duplicated segment carried byClostridium thermocellumcellulases with cellulosome components. FEBS Letters, 1991, 291, 185-188.	2.8	152
7	A novel intermembrane spaceâ€"targeting signal docks cysteines onto Mia40 during mitochondrial oxidative folding. Journal of Cell Biology, 2009, 187, 1007-1022.	5.2	144
8	Molecular chaperone function of Mia40 triggers consecutive induced folding steps of the substrate in mitochondrial protein import. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20190-20195.	7.1	116
9	Functional TIM10 Chaperone Assembly Is Redox-regulated in Vivo. Journal of Biological Chemistry, 2004, 279, 18952-18958.	3.4	106
10	Mitochondrial Proteins Containing Coiled-Coil-Helix-Coiled-Coil-Helix (CHCH) Domains in Health and Disease. Trends in Biochemical Sciences, 2016, 41, 245-260.	7.5	104
11	High activity of inclusion bodies formed in Escherichia coli overproducing Clostridium thermocellum endoglucanase D. FEBS Letters, 1991, 282, 205-208.	2.8	102
12	Molecular recognition and substrate mimicry drive the electron-transfer process between MIA40 and ALR. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4811-4816.	7.1	92
13	Conserved Motifs Reveal Details of Ancestry and Structure in the Small TIM Chaperones of the Mitochondrial Intermembrane Space. Molecular Biology and Evolution, 2007, 24, 1149-1160.	8.9	86
14	Localisation of the human hSuv3p helicase in the mitochondrial matrix and its preferential unwinding of dsDNA. Nucleic Acids Research, 2002, 30, 5074-5086.	14.5	81
15	Oxidative folding of small Tims is mediated by site-specific docking onto Mia40 in the mitochondrial intermembrane space. Molecular Microbiology, 2007, 65, 1360-1373.	2.5	77
16	Oxidative Protein Folding in the Mitochondrial Intermembrane Space. Antioxidants and Redox Signaling, 2010, 13, 1189-1204.	5.4	77
17	Juxtaposition of the Two Distal CX3C Motifs via Intrachain Disulfide Bonding Is Essential for the Folding of Tim10. Journal of Biological Chemistry, 2003, 278, 38505-38513.	3.4	76
18	Involvement of separate domains of the cellulosomal protein S1 ofClostridium thermocellumin binding to cellulose and in anchoring of catalytic subunits to the cellulosome. FEBS Letters, 1992, 304, 89-92.	2.8	71

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19	Assembly of Tim9 and Tim10 into a Functional Chaperone. Journal of Biological Chemistry, 2002, 277, 36100-36108.	3.4	65
20	Anamorsin Is a [2Fe-2S] Cluster-Containing Substrate of the Mia40-Dependent Mitochondrial Protein Trapping Machinery. Chemistry and Biology, 2011, 18, 794-804.	6.0	65
21	Translocation arrest of an intramitochondrial sorting signal next to Tim11 at the inner-membrane import site. Nature, 1996, 384, 585-588.	27.8	60
22	A Disulfide Relay System in Mitochondria. Cell, 2005, 121, 965-967.	28.9	56
23	Ironâ€"sulfur clusters: from metals through mitochondria biogenesis to disease. Journal of Biological Inorganic Chemistry, 2018, 23, 509-520.	2.6	55
24	The Structural Basis of the TIM10 Chaperone Assembly. Journal of Biological Chemistry, 2004, 279, 18959-18966.	3.4	54
25	The MIA Pathway: A Key Regulator of Mitochondrial Oxidative Protein Folding and Biogenesis. Accounts of Chemical Research, 2015, 48, 2191-2199.	15.6	44
26	Biogenesis of Mitochondrial Inner Membrane Proteins. Journal of Biological Chemistry, 1999, 274, 35285-35288.	3.4	43
27	MiR-195 regulates mitochondrial function by targeting mitofusin-2 in breast cancer cells. RNA Biology, 2019, 16, 918-929.	3.1	42
28	The Dynamic Dimerization of the Yeast ADP/ATP Carrier in the Inner Mitochondrial Membrane Is Affected by Conserved Cysteine Residues. Journal of Biological Chemistry, 2003, 278, 26757-26764.	3.4	40
29	Distinct Domains of Small Tims Involved in Subunit Interaction and Substrate Recognition. Journal of Molecular Biology, 2005, 351, 839-849.	4.2	40
30	An Electron-Transfer Path through an Extended Disulfide Relay System: The Case of the Redox Protein ALR. Journal of the American Chemical Society, 2012, 134, 1442-1445.	13.7	40
31	The mitochondrial processing peptidase behaves as a zinc-metallopeptidase. Journal of Molecular Biology, 1998, 280, 193-199.	4.2	37
32	Translocation of mitochondrial inner-membrane proteins: conformation matters. Trends in Biochemical Sciences, 2006, 31, 259-267.	7.5	37
33	AIF meets the CHCHD4/Mia40-dependent mitochondrial import pathway. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165746.	3.8	37
34	The Essential Function of Tim12 in Vivo Is Ensured by the Assembly Interactions of Its C-terminal Domain. Journal of Biological Chemistry, 2008, 283, 15747-15753.	3.4	32
35	Conserved substrate binding by chaperones in the bacterial periplasm and the mitochondrial intermembrane space. Biochemical Journal, 2008, 409, 377-387.	3.7	31
36	The N-terminal Shuttle Domain of Erv1 Determines the Affinity for Mia40 and Mediates Electron Transfer to the Catalytic Erv1 Core in Yeast Mitochondria. Antioxidants and Redox Signaling, 2010, 13, 1327-1339.	5.4	30

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37	Unconventional Targeting of a Thiol Peroxidase to the Mitochondrial Intermembrane Space Facilitates Oxidative Protein Folding. Cell Reports, 2017, 18, 2729-2741.	6.4	30
38	The biogenesis of mitochondrial intermembrane space proteins. Biological Chemistry, 2020, 401, 737-747.	2.5	28
39	Oxidative folding in the mitochondrial intermembrane space: A regulated process important for cell physiology and disease. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1298-1306.	4.1	26
40	The coiled coilâ€helixâ€coiled coilâ€helix proteins may be redox proteins. FEBS Letters, 2009, 583, 1699-1702.	2.8	25
41	Targeting and Maturation of Erv1/ALR in the Mitochondrial Intermembrane Space. ACS Chemical Biology, 2012, 7, 707-714.	3.4	25
42	Redox-Mediated Regulation of Mitochondrial Biogenesis, Dynamics, and Respiratory Chain Assembly in Yeast and Human Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 720656.	3.7	25
43	The Mitochondrial Intermembrane Space: A Hub for Oxidative Folding Linked to Protein Biogenesis. Antioxidants and Redox Signaling, 2013, 19, 54-62.	5.4	24
44	ICPBCZin: A red emitting ratiometric fluorescent indicator with nanomolar affinity for Zn2+ ions. Cell Calcium, 2008, 44, 270-275.	2.4	20
45	Biogenesis of yeast <scp>M</scp>ia40Ââ€“Âuncoupling folding from import and atypical recognition features. FEBS Journal, 2013, 280, 4960-4969.	4.7	18
46	The mitochondrial intermembrane space: the most constricted mitochondrial sub-compartment with the largest variety of protein import pathways. Open Biology, 2021, 11, 210002.	3.6	18
47	Mutation of Conserved Charged Residues in Mitochondrial TIM10 Subunits Precludes TIM10 Complex Assembly, but Does not Abolish Growth of Yeast Cells. Journal of Molecular Biology, 2007, 371, 1315-1324.	4.2	17
48	An Intrinsically Disordered Domain Has a Dual Function Coupled to Compartment-Dependent Redox Control. Journal of Molecular Biology, 2013, 425, 594-608.	4.2	16
49	The Mia40/CHCHD4 Oxidative Folding System: Redox Regulation and Signaling in the Mitochondrial Intermembrane Space. Antioxidants, 2021, 10, 592.	5.1	16
50	Targeting and Insertion of Membrane Proteins in Mitochondria. Frontiers in Cell and Developmental Biology, 2021, 9, 803205.	3.7	16
51	Import of a major mitochondrial enzyme depends on synergy between two distinct helices of its presequence. Biochemical Journal, 2016, 473, 2813-2829.	3.7	14
52	Oxidative protein biogenesis and redox regulation in the mitochondrial intermembrane space. Cell and Tissue Research, 2017, 367, 43-57.	2.9	14
53	A cryptic matrix targeting signal of the yeast ADP/ATP carrier normally inserted by the TIM22 complex is recognized by the TIM23 machinery. Biochemical Journal, 2005, 385, 173-180.	3.7	13
54	Cytosolic redox components regulate protein homeostasis via additional localisation in the mitochondrial intermembrane space. FEBS Letters, 2017, 591, 2661-2670.	2.8	13

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55	Mitochondrial ATPâ€independent chaperones. IUBMB Life, 2009, 61, 909-914.	3.4	12
56	Orphan proteins of unknown function in the mitochondrial intermembrane space proteome: New pathways and metabolic cross-talk. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2613-2623.	4.1	12
57	Protein trafficking in the mitochondrial intermembrane space: mechanisms and links to human disease. Biochemical Journal, 2017, 474, 2533-2545.	3.7	12
58	Molecular Interactions of the Mitochondrial Tim12 Translocase Subunit. Protein and Peptide Letters, 2007, 14, 597-600.	0.9	10
59	Complementing structural information of modular proteins with small angle neutron scattering and contrast variation. European Biophysics Journal, 2008, 37, 603-611.	2.2	9
60	Common Players in Mitochondria Biogenesis and Neuronal Protection Against Stress-Induced Apoptosis. Neurochemical Research, 2014, 39, 546-555.	3.3	8
61	Protein import in mitochondria biogenesis: guided by targeting signals and sustained by dedicated chaperones. RSC Advances, 2021, 11, 32476-32493.	3.6	7
62	Trapping Oxidative Folding Intermediates During Translocation to the Intermembrane Space of Mitochondria: In Vivo and In Vitro Studies. Methods in Molecular Biology, 2010, 619, 411-423.	0.9	7
63	Directing proteins to mitochondria by fusion to mitochondrial targeting signals. Methods in Enzymology, 2000, 327, 305-317.	1.0	6
64	The Yeast Voltage-Dependent Anion Channel Porin: More IMPORTant than Just Metabolite Transport. Molecular Cell, 2019, 73, 861-862.	9.7	3
65	The mitochondrial protein Sideroflexin 3 (SFXN3) influences neurodegeneration pathways <i>inÂvivo</i>. FEBS Journal, 2022, 289, 3894-3914.	4.7	2
66	Shaping the import system of mitochondria. ELife, 2018, 7, .	6.0	1
67	Introduction:Focus on mitochondria. FEBS Journal, 2013, 280, 4932-4932.	4.7	0