

Debkumar Pain

List of Publications by Year in descending order

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59
papers

4,060
citations

136950

32
h-index

155660

55
g-index

59
all docs

59
docs citations

59
times ranked

4600
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionizing radiation-induced metabolic oxidative stress and prolonged cell injury. <i>Cancer Letters</i> , 2012, 327, 48-60.	7.2	1,019
2	Identification of a receptor for protein import into chloroplasts and its localization to envelope contact zones. <i>Nature</i> , 1988, 331, 232-237.	27.8	210
3	Yeast Mitochondrial Protein, Nfs1p, Coordinately Regulates Iron-Sulfur Cluster Proteins, Cellular Iron Uptake, and Iron Distribution. <i>Journal of Biological Chemistry</i> , 1999, 274, 33025-33034.	3.4	172
4	Mt-Hsp70 Homolog, Ssc2p, Required for Maturation of Yeast Frataxin and Mitochondrial Iron Homeostasis. <i>Journal of Biological Chemistry</i> , 1998, 273, 18389-18393.	3.4	160
5	Dre2, a Conserved Eukaryotic Fe/S Cluster Protein, Functions in Cytosolic Fe/S Protein Biogenesis. <i>Molecular and Cellular Biology</i> , 2008, 28, 5569-5582.	2.3	145
6	Bimodal Targeting of Microsomal CYP2E1 to Mitochondria through Activation of an N-terminal Chimeric Signal by cAMP-mediated Phosphorylation. <i>Journal of Biological Chemistry</i> , 2002, 277, 40583-40593.	3.4	135
7	Long-Term Consequences of Radiation-Induced Bystander Effects Depend on Radiation Quality and Dose and Correlate with Oxidative Stress. <i>Radiation Research</i> , 2011, 175, 405-415.	1.5	130
8	Frataxin and Mitochondrial FeS Cluster Biogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 26737-26743.	3.4	128
9	Identification of a receptor for protein import into mitochondria. <i>Nature</i> , 1990, 347, 444-449.	27.8	123
10	Adrenodoxin Reductase Homolog (Arh1p) of Yeast Mitochondria Required for Iron Homeostasis. <i>Journal of Biological Chemistry</i> , 2001, 276, 1503-1509.	3.4	111
11	Protein A: nature's universal anti-antibody. <i>Trends in Biochemical Sciences</i> , 1982, 7, 74-76.	7.5	108
12	Mrs3p, Mrs4p, and Frataxin Provide Iron for Fe-S Cluster Synthesis in Mitochondria. <i>Journal of Biological Chemistry</i> , 2006, 281, 22493-22502.	3.4	91
13	Frataxin Directly Stimulates Mitochondrial Cysteine Desulfurase by Exposing Substrate-binding Sites, and a Mutant Fe-S Cluster Scaffold Protein with Frataxin-bypassing Ability Acts Similarly. <i>Journal of Biological Chemistry</i> , 2013, 288, 36773-36786.	3.4	85
14	Mitochondrial Complex II Dysfunction Can Contribute Significantly to Genomic Instability after Exposure to Ionizing Radiation. <i>Radiation Research</i> , 2009, 172, 737-745.	1.5	83
15	Isolation and characterization of the gene for a yeast mitochondrial import receptor. <i>Nature</i> , 1990, 347, 488-491.	27.8	82
16	Role of the translationally controlled tumor protein in DNA damage sensing and repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E926-33.	7.1	78
17	J-domain Protein, Jac1p, of Yeast Mitochondria Required for Iron Homeostasis and Activity of Fe-S Cluster Proteins. <i>Journal of Biological Chemistry</i> , 2001, 276, 17524-17532.	3.4	71
18	A novel role of Mgm1p, a dynamin-related GTPase, in ATP synthase assembly and cristae formation/maintenance. <i>Biochemical Journal</i> , 2004, 381, 19-23.	3.7	71

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19	Persulfide formation on mitochondrial cysteine desulfurase: enzyme activation by a eukaryote-specific interacting protein and Fe-S cluster synthesis. <i>Biochemical Journal</i> , 2012, 448, 171-187.	3.7	58
20	Roles of Fe-S proteins: from cofactor synthesis to iron homeostasis to protein synthesis. <i>Current Opinion in Genetics and Development</i> , 2016, 38, 45-51.	3.3	55
21	Mitochondria export iron-sulfur and sulfur intermediates to the cytoplasm for iron-sulfur cluster assembly and tRNA thiolation in yeast. <i>Journal of Biological Chemistry</i> , 2019, 294, 9489-9502.	3.4	54
22	The Yeast Connection to Friedreich Ataxia. <i>American Journal of Human Genetics</i> , 1999, 64, 365-371.	6.2	47
23	Normal Human Fibroblasts Exposed to High- or Low-Dose Ionizing Radiation: Differential Effects on Mitochondrial Protein Import and Membrane Potential. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 1253-1261.	5.4	45
24	Mutation in the Fe-S scaffold protein Isu bypasses frataxin deletion. <i>Biochemical Journal</i> , 2012, 441, 473-480.	3.7	43
25	Rim2, a pyrimidine nucleotide exchanger, is needed for iron utilization in mitochondria. <i>Biochemical Journal</i> , 2011, 440, 137-146.	3.7	42
26	A Multisubunit Complex of Outer and Inner Mitochondrial Membrane Protein Translocases Stabilized in Vivo by Translocation Intermediates. <i>Journal of Biological Chemistry</i> , 1999, 274, 22847-22854.	3.4	41
27	Nucleoside diphosphate kinase of <i>Saccharomyces cerevisiae</i> , Ynk1p: localization to the mitochondrial intermembrane space. <i>Biochemical Journal</i> , 2003, 370, 805-815.	3.7	41
28	GTP in the mitochondrial matrix plays a crucial role in organellar iron homeostasis. <i>Biochemical Journal</i> , 2006, 400, 163-168.	3.7	41
29	Health Risks of Space Exploration: Targeted and Nontargeted Oxidative Injury by High-Charge and High-Energy Particles. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 1501-1523.	5.4	40
30	GTP Is Required for Iron-Sulfur Cluster Biogenesis in Mitochondria. <i>Journal of Biological Chemistry</i> , 2008, 283, 1362-1371.	3.4	36
31	Preparation of protein A-peroxidase monoconjugate using a heterobifunctional reagent, and its use in enzyme immunoassays. <i>Journal of Immunological Methods</i> , 1981, 40, 219-230.	1.4	34
32	Distinct roles for two N-terminal cleaved domains in mitochondrial import of the yeast frataxin homolog, Yfh1p. <i>Human Molecular Genetics</i> , 2001, 10, 259-269.	2.9	34
33	Frataxin-bypassing Isu1: characterization of the bypass activity in cells and mitochondria. <i>Biochemical Journal</i> , 2014, 459, 71-81.	3.7	34
34	GTP Hydrolysis Is Essential for Protein Import into the Mitochondrial Matrix. <i>Journal of Biological Chemistry</i> , 1998, 273, 1420-1424.	3.4	33
35	Turning <i>Saccharomyces cerevisiae</i> into a Frataxin-Independent Organism. <i>PLoS Genetics</i> , 2015, 11, e1005135.	3.5	33
36	Mitochondrial NADH Kinase, Pos5p, Is Required for Efficient Iron-Sulfur Cluster Biogenesis in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 39409-39424.	3.4	32

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37	A GTP-dependent "Push" Is Generally Required for Efficient Protein Translocation across the Mitochondrial Inner Membrane into the Matrix. <i>Journal of Biological Chemistry</i> , 1998, 273, 20941-20950.	3.4	28
38	Fe-S Cluster Biogenesis in Isolated Mammalian Mitochondria. <i>Journal of Biological Chemistry</i> , 2015, 290, 640-657.	3.4	28
39	Mitochondria Export Sulfur Species Required for Cytosolic tRNA Thiolation. <i>Cell Chemical Biology</i> , 2018, 25, 738-748.e3.	5.2	28
40	Mitochondrial Two-Component Signaling Systems in <i>Candida albicans</i> . <i>Eukaryotic Cell</i> , 2013, 12, 913-922.	3.4	27
41	Self-association and precursor protein binding of <i>Saccharomyces cerevisiae</i> Tom40p, the core component of the protein translocation channel of the mitochondrial outer membrane. <i>Biochemical Journal</i> , 2001, 356, 207-215.	3.7	24
42	Identification of a Nfs1p-bound persulfide intermediate in Fe-S cluster synthesis by intact mitochondria. <i>Mitochondrion</i> , 2012, 12, 539-549.	3.4	23
43	Mechanisms of mitochondrial protein import. <i>Essays in Biochemistry</i> , 2000, 36, 61-73.	4.7	23
44	Chapter 14 Nucleotide-Dependent Iron-Sulfur Cluster Biogenesis of Endogenous and Imported Apoproteins in Isolated Intact Mitochondria. <i>Methods in Enzymology</i> , 2009, 456, 247-266.	1.0	21
45	Self-association and precursor protein binding of <i>Saccharomyces cerevisiae</i> Tom40p, the core component of the protein translocation channel of the mitochondrial outer membrane. <i>Biochemical Journal</i> , 2001, 356, 207.	3.7	21
46	Co-precipitation of Phosphate and Iron Limits Mitochondrial Phosphate Availability in <i>Saccharomyces cerevisiae</i> Lacking the Yeast Frataxin Homologue (YFH1). <i>Journal of Biological Chemistry</i> , 2011, 286, 6071-6079.	3.4	18
47	In vitro characterization of a novel Isu homologue from <i>Drosophila melanogaster</i> for de novo FeS-cluster formation. <i>Metallomics</i> , 2017, 9, 48-60.	2.4	16
48	Cysteine desulfurase is regulated by phosphorylation of Nfs1 in yeast mitochondria. <i>Mitochondrion</i> , 2018, 40, 29-41.	3.4	10
49	Isd11p Protein Activates the Mitochondrial Cysteine Desulfurase Nfs1p Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 38242-38252.	3.4	9
50	Protein a-enzyme monoconjugate as a versatile tool for enzyme immunoassays. <i>FEBS Letters</i> , 1979, 107, 73-76.	2.8	8
51	A GTP:AMP Phosphotransferase, Adk2p, in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 18604-18609.	3.4	8
52	Splitting the functions of Rim2, a mitochondrial iron/pyrimidine carrier. <i>Mitochondrion</i> , 2019, 47, 256-265.	3.4	8
53	[11] Preparation of protein A-Enzyme monoconjugate and its use as a reagent in enzyme immunoassays. <i>Methods in Enzymology</i> , 1981, , 176-191.	1.0	6
54	Import receptor in chloroplast envelope. <i>Nature</i> , 1988, 333, 307-307.	27.8	4

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55	Machinery for Protein Import into Chloroplasts and Mitochondria. , 1991, 13, 153-166.		3
56	Nfs1 cysteine desulfurase protein complexes and phosphorylation sites as assessed by mass spectrometry. Data in Brief, 2017, 15, 775-799.	1.0	2
57	15. Fe-S cluster assembly and regulation in yeast. , 2014, , 367-410.		0
58	6 Fe-S cluster assembly and regulation in yeast. , 2017, , 117-160.		0
59	Frataxin or a mutant Fe-S cluster scaffold protein with frataxin-bypassing ability directly stimulates mitochondrial cysteine desulfurase by exposing substrate-binding sites (578.4). FASEB Journal, 2014, 28, 578.4.	0.5	0