

Jaroslaw Marszalek

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,663
citations

304368

22
h-index

301761

39
g-index

44
all docs

44
docs citations

44
times ranked

1348
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulated Cycling of Mitochondrial Hsp70 at the Protein Import Channel. <i>Science</i> , 2003, 300, 139-141.	6.0	161
2	How Do J-Proteins Get Hsp70 to Do So Many Different Things?. <i>Trends in Biochemical Sciences</i> , 2017, 42, 355-368.	3.7	152
3	Ssq1, a Mitochondrial Hsp70 Involved in Iron-Sulfur (Fe/S) Center Biogenesis. <i>Journal of Biological Chemistry</i> , 2003, 278, 29719-29727.	1.6	122
4	Evolution of Mitochondrial Chaperones Utilized in Fe-S Cluster Biogenesis. <i>Current Biology</i> , 2006, 16, 1660-1665.	1.8	94
5	Sequence-specific Interaction between Mitochondrial Fe-S Scaffold Protein Isu and Hsp70 Ssq1 Is Essential for Their in Vivo Function. <i>Journal of Biological Chemistry</i> , 2004, 279, 29167-29174.	1.6	90
6	Role of the Mitochondrial Hsp70s, Ssc1 and Ssq1, in the Maturation of Yfh1. <i>Molecular and Cellular Biology</i> , 2000, 20, 3677-3684.	1.1	78
7	Domains of DnaA Protein Involved in Interaction with DnaB Protein, and in Unwinding the Escherichia coli Chromosomal Origin. <i>Journal of Biological Chemistry</i> , 1996, 271, 18535-18542.	1.6	60
8	Interaction of J-Protein Co-Chaperone Jac1 with Fe-S Scaffold Isu Is Indispensable In Vivo and Conserved in Evolution. <i>Journal of Molecular Biology</i> , 2012, 417, 1-12.	2.0	59
9	A Chaperone (Hsp70-Hsp78) System Restores Mitochondrial DNA Synthesis following Thermal Inactivation of Mip1p Polymerase. <i>Journal of Biological Chemistry</i> , 2002, 277, 27801-27808.	1.6	56
10	The Hsp70 Chaperone Ssq1p Is Dispensable for Iron-Sulfur Cluster Formation on the Scaffold Protein Isu1p*. <i>Journal of Biological Chemistry</i> , 2006, 281, 7801-7808.	1.6	54
11	Characterization of the Interaction between the J-protein Jac1p and the Scaffold for Fe-S Cluster Biogenesis, Isu1p. <i>Journal of Biological Chemistry</i> , 2006, 281, 14580-14587.	1.6	50
12	Binding of the Chaperone Jac1 Protein and Cysteine Desulfurase Nfs1 to the Iron-Sulfur Cluster Scaffold Isu Protein Is Mutually Exclusive. <i>Journal of Biological Chemistry</i> , 2013, 288, 29134-29142.	1.6	50
13	Cysteine desulfurase Nfs1 and Pim1 protease control levels of Isu, the Fe-S cluster biogenesis scaffold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10370-10375.	3.3	48
14	The Complex Evolutionary Dynamics of Hsp70s: A Genomic and Functional Perspective. <i>Genome Biology and Evolution</i> , 2013, 5, 2460-2477.	1.1	44
15	Hsp78 chaperone functions in restoration of mitochondrial network following heat stress. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 141-151.	1.9	42
16	Co-evolution-driven switch of J-protein specificity towards an Hsp70 partner. <i>EMBO Reports</i> , 2010, 11, 360-365.	2.0	41
17	Sequential Duplications of an Ancient Member of the DnaJ-Family Expanded the Functional Chaperone Network in the Eukaryotic Cytosol. <i>Molecular Biology and Evolution</i> , 2013, 30, 985-998.	3.5	38
18	Overlapping Binding Sites of the Frataxin Homologue Assembly Factor and the Heat Shock Protein 70 Transfer Factor on the Isu Iron-Sulfur Cluster Scaffold Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 30268-30278.	1.6	38

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19	Dual Role of the Mitochondrial Chaperone Mdj1p in Inheritance of Mitochondrial DNA in Yeast. <i>Molecular and Cellular Biology</i> , 1999, 19, 8201-8210.	1.1	37
20	Compensation for a Defective Interaction of the Hsp70 Ssq1 with the Mitochondrial Fe-S Cluster Scaffold Isu. <i>Journal of Biological Chemistry</i> , 2005, 280, 28966-28972.	1.6	29
21	The Requirement for Molecular Chaperones in Ψ DNA Replication Is Reduced by the Mutation Ψ in Ψ P Gene, Which Weakens the Interaction between Ψ P Protein and DnaB Helicase. <i>Journal of Biological Chemistry</i> , 1995, 270, 9792-9799.	1.6	25
22	Protection of scaffold protein Isu from degradation by the Lon protease Pim1 as a component of Fe-S cluster biogenesis regulation. <i>Molecular Biology of the Cell</i> , 2016, 27, 1060-1068.	0.9	22
23	Iron-Sulfur Cluster Biogenesis Chaperones: Evidence for Emergence of Mutational Robustness of a Highly Specific Protein-Protein Interaction. <i>Molecular Biology and Evolution</i> , 2016, 33, 643-656.	3.5	19
24	Two-step mechanism of J-domain action in driving Hsp70 function. <i>PLoS Computational Biology</i> , 2020, 16, e1007913.	1.5	18
25	Maintenance and stabilization of mtDNA can be facilitated by the DNA-binding activity of Ilv5p. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 107-117.	1.9	16
26	Fe-S Cluster Hsp70 Chaperones: The ATPase Cycle and Protein Interactions. <i>Methods in Enzymology</i> , 2017, 595, 161-184.	0.4	16
27	Regulatory properties of AMP deaminases from rat tissues. <i>International Journal of Biochemistry & Cell Biology</i> , 1991, 23, 1155-1159.	0.8	13
28	Biochemical Convergence of Mitochondrial Hsp70 System Specialized in Iron-Sulfur Cluster Biogenesis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3326.	1.8	13
29	Nucleoid localization of Hsp40 Mdj1 is important for its function in maintenance of mitochondrial DNA. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 2233-2243.	1.9	12
30	AMP deaminases of rat small intestine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1986, 880, 123-130.	1.1	11
31	Role of adenine nucleotides, molecular chaperones and chaperonins in stabilization of DnaA initiator protein of Escherichia coli. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998, 1442, 39-48.	2.4	9
32	Structure and evolution of the 4-helix bundle domain of Zuotin, a J-domain protein co-chaperone of Hsp70. <i>PLoS ONE</i> , 2019, 14, e0217098.	1.1	8
33	Ancient Gene Duplication Provided a Key Molecular Step for Anaerobic Growth of Baker's Yeast. <i>Molecular Biology and Evolution</i> , 2011, 28, 2005-2017.	3.5	7
34	Role of the Mitochondrial Hsp70s, Ssc1 and Ssq1, in the Maturation of Yfh1. <i>Molecular and Cellular Biology</i> , 2000, 20, 3677-3684.	1.1	3
35	An Essential Connection: Link between Hsp70's Domains At Last. <i>Molecular Cell</i> , 2005, 20, 493-494.	4.5	2
36	During FeS cluster biogenesis, ferredoxin and frataxin use overlapping binding sites on yeast cysteine desulfurase Nfs1. <i>Journal of Biological Chemistry</i> , 2022, 298, 101570.	1.6	2

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37	Two forms of AMP deaminase from the lizard (<i>Lacerta agilis</i>) liver. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1986, 83, 169-171.	0.2	1
38	The role of GTP in the regulation of two forms of AMP deaminase from chicken kidney. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1987, 88, 1077-1082.	0.2	1
39	Comparison of kinetic and regulatory properties of high S0.5 form of AMP deaminase from chicken and pigeon liver with AMP deaminase from rat and ox liver. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1989, 94, 555-560.	0.2	1
40	Fellowship fund would help eastern Europe to retain its young talent. <i>Nature</i> , 2001, 410, 299-299.	13.7	0
41	Yeast Hsp70 and J-protein Chaperones: Function and Interaction Network. , 2014, , 53-82.		0