

Elizabeth A Craig

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

9,219

citations

44

h-index

88

g-index

88

ext. papers

9,932

ext. citations

10.7

avg, IF

6.13

L-index

#	Paper	IF	Citations
83	A subfamily of stress proteins facilitates translocation of secretory and mitochondrial precursor polypeptides. <i>Nature</i> , 1988 , 332, 800-5	50.4	1432
82	The HSP70 chaperone machinery: J proteins as drivers of functional specificity. <i>Nature Reviews Molecular Cell Biology</i> , 2010 , 11, 579-92	48.7	1105
81	The heat shock response. <i>Critical Reviews in Biochemistry</i> , 1985 , 18, 239-80		706
80	Requirement for hsp70 in the mitochondrial matrix for translocation and folding of precursor proteins. <i>Nature</i> , 1990 , 348, 137-43	50.4	694
79	The translation machinery and 70 kd heat shock protein cooperate in protein synthesis. <i>Cell</i> , 1992 , 71, 97-105	56.2	465
78	Getting newly synthesized proteins into shape. <i>Cell</i> , 2000 , 101, 119-22	56.2	352
77	How do polypeptides cross the mitochondrial membranes?. <i>Cell</i> , 1990 , 63, 447-50	56.2	260
76	The molecular chaperone Ssb from <i>Saccharomyces cerevisiae</i> is a component of the ribosome-nascent chain complex. <i>EMBO Journal</i> , 1998 , 17, 3981-9	13	194
75	Mitochondrial preprotein translocase. <i>Annual Review of Cell and Developmental Biology</i> , 1997 , 13, 25-51	12.6	157
74	J protein cochaperone of the mitochondrial inner membrane required for protein import into the mitochondrial matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 13839-44	11.5	156
73	Regulated cycling of mitochondrial Hsp70 at the protein import channel. <i>Science</i> , 2003 , 300, 139-41	33.3	155
72	Chaperones: helpers along the pathways to protein folding. <i>Science</i> , 1993 , 260, 1902-3	33.3	152
71	Specificity of the J-protein Sis1 in the propagation of 3 yeast prions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 16596-601	11.5	142
70	The glycine-phenylalanine-rich region determines the specificity of the yeast Hsp40 Sis1. <i>Molecular and Cellular Biology</i> , 1999 , 19, 7751-8	4.8	119
69	Ssq1, a mitochondrial Hsp70 involved in iron-sulfur (Fe/S) center biogenesis. Similarities to and differences from its bacterial counterpart. <i>Journal of Biological Chemistry</i> , 2003 , 278, 29719-27	5.4	113
68	How Do J-Proteins Get Hsp70 to Do So Many Different Things?. <i>Trends in Biochemical Sciences</i> , 2017 , 42, 355-368	10.3	103
67	The Hsp70 Ssz1 modulates the function of the ribosome-associated J-protein Zuo1. <i>Nature Structural and Molecular Biology</i> , 2005 , 12, 497-504	17.6	100

66	Specificity of class II Hsp40 Sis1 in maintenance of yeast prion [RNQ+]. <i>Molecular Biology of the Cell</i> , 2003 , 14, 1172-81	3.5	98
65	Mitochondrial Hsp70 Ssc1: role in protein folding. <i>Journal of Biological Chemistry</i> , 2001 , 276, 6112-8	5.4	93
64	The Rqc2/Tae2 subunit of the ribosome-associated quality control (RQC) complex marks ribosome-stalled nascent polypeptide chains for aggregation. <i>ELife</i> , 2016 , 5, e11794	8.9	92
63	The in vivo function of the ribosome-associated Hsp70, Ssz1, does not require its putative peptide-binding domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 4203-8	11.5	91
62	Human Mpp11 J protein: ribosome-tethered molecular chaperones are ubiquitous. <i>Science</i> , 2005 , 308, 1032-4	33.3	89
61	Regulated interactions of mtHsp70 with Tim44 at the translocon in the mitochondrial inner membrane. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 1084-91	17.6	89
60	Precursor proteins in transit through mitochondrial contact sites interact with hsp70 in the matrix. <i>FEBS Letters</i> , 1990 , 277, 281-4	3.8	88
59	An essential role for the substrate-binding region of Hsp40s in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Biology</i> , 2001 , 152, 851-6	7.3	86
58	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, 29167-74	5.4	85
57	J-protein co-chaperone Sis1 required for generation of [RNQ+] seeds necessary for prion propagation. <i>EMBO Journal</i> , 2007 , 26, 3794-803	13	83
56	Role of Pam16Q degenerate J domain in protein import across the mitochondrial inner membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12419-24	11.5	83
55	Binding of yeast frataxin to the scaffold for Fe-S cluster biogenesis, Isu. <i>Journal of Biological Chemistry</i> , 2008 , 283, 12674-9	5.4	80
54	Evolution of mitochondrial chaperones utilized in Fe-S cluster biogenesis. <i>Current Biology</i> , 2006 , 16, 1660-5	6.5	80
53	Ribosome-tethered molecular chaperones: the first line of defense against protein misfolding?. <i>Current Opinion in Microbiology</i> , 2003 , 6, 157-62	7.9	76
52	Hsp70 at the membrane: driving protein translocation. <i>BMC Biology</i> , 2018 , 16, 11	7.3	73
51	Role of the mitochondrial Hsp70s, Ssc1 and Ssq1, in the maturation of Yfh1. <i>Molecular and Cellular Biology</i> , 2000 , 20, 3677-84	4.8	73
50	The specialized cytosolic J-protein, Jjj1, functions in 60S ribosomal subunit biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1558-63	11.5	71
49	Interaction of the J-protein heterodimer Pam18/Pam16 of the mitochondrial import motor with the translocon of the inner membrane. <i>Molecular Biology of the Cell</i> , 2008 , 19, 424-32	3.5	63

48	Divergent functional properties of the ribosome-associated molecular chaperone Ssb compared with other Hsp70s. <i>Molecular Biology of the Cell</i> , 2001 , 12, 3773-82	3.5	63
47	Essential roles of 70kDa heat inducible proteins. <i>BioEssays</i> , 1989 , 11, 48-52	4.1	63
46	[SWI], the prion formed by the chromatin remodeling factor Swi1, is highly sensitive to alterations in Hsp70 chaperone system activity. <i>PLoS Genetics</i> , 2011 , 7, e1001309	6	56
45	The Hsp70 chaperone Ssq1p is dispensable for iron-sulfur cluster formation on the scaffold protein Isu1p. <i>Journal of Biological Chemistry</i> , 2006 , 281, 7801-8	5.4	53
44	Congenital sideroblastic anemia due to mutations in the mitochondrial HSP70 homologue HSPA9. <i>Blood</i> , 2015 , 126, 2734-8	2.2	52
43	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, 14580-7	5.4	49
42	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	6.5	48
41	In vivo bipartite interaction between the Hsp40 Sis1 and Hsp70 in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2005 , 169, 1873-82	4	45
40	The cytosolic J-protein, Jjj1, and Rei1 function in the removal of the pre-60 S subunit factor Arx1. <i>Journal of Biological Chemistry</i> , 2010 , 285, 961-8	5.4	44
39	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, 29134-42	5.4	41
38	The complex evolutionary dynamics of Hsp70s: a genomic and functional perspective. <i>Genome Biology and Evolution</i> , 2013 , 5, 2460-77	3.9	39
37	Co-evolution-driven switch of J-protein specificity towards an Hsp70 partner. <i>EMBO Reports</i> , 2010 , 11, 360-5	6.5	37
36	Reevaluation of the role of the Pam18:Pam16 interaction in translocation of proteins by the mitochondrial Hsp70-based import motor. <i>Molecular Biology of the Cell</i> , 2011 , 22, 4740-9	3.5	36
35	Residues of Tim44 involved in both association with the translocon of the inner mitochondrial membrane and regulation of mitochondrial Hsp70 tethering. <i>Molecular and Cellular Biology</i> , 2008 , 28, 4424-33	4.8	36
34	Activation of pleiotropic drug resistance by the J-protein and Hsp70-related proteins, Zuo1 and Ssz1. <i>Molecular Microbiology</i> , 2004 , 53, 335-44	4.1	36
33	Roles of intramolecular and intermolecular interactions in functional regulation of the Hsp70 J-protein co-chaperone Sis1. <i>Journal of Molecular Biology</i> , 2015 , 427, 1632-43	6.5	31
32	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	5.4	31
31	Broad sensitivity of <i>Saccharomyces cerevisiae</i> lacking ribosome-associated chaperone ssb or zuo1 to cations, including aminoglycosides. <i>Eukaryotic Cell</i> , 2005 , 4, 82-9		30

30	Dual interaction of scaffold protein Tim44 of mitochondrial import motor with channel-forming translocase subunit Tim23. <i>ELife</i> , 2017 , 6,	8.9	30
29	Cwc23, an essential J protein critical for pre-mRNA splicing with a dispensable J domain. <i>Molecular and Cellular Biology</i> , 2010 , 30, 33-42	4.8	29
28	Architecture of the TIM23 inner mitochondrial translocon and interactions with the matrix import motor. <i>Journal of Biological Chemistry</i> , 2014 , 289, 28689-96	5.4	28
27	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, 985-98	8.3	28
26	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, 28966-72	5.4	26
25	Influence of prion variant and yeast strain variation on prion-molecular chaperone requirements. <i>Prion</i> , 2011 , 5, 238-44	2.3	25
24	Dual interaction of the Hsp70 J-protein cochaperone Zuotin with the 40S and 60S ribosomal subunits. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 1003-1010	17.6	25
23	Unfolding of the C-terminal domain of the J-protein Zuo1 releases autoinhibition and activates Pdr1-dependent transcription. <i>Journal of Molecular Biology</i> , 2013 , 425, 19-31	6.5	24
22	Eukaryotic chaperonins: lubricating the folding of WD-repeat proteins. <i>Current Biology</i> , 2003 , 13, R904-56.3		23
21	Genetic analysis of complex interactions among components of the mitochondrial import motor and translocon in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2012 , 190, 1341-53	4	22
20	Posttranslational regulation of the scaffold for Fe-S cluster biogenesis, Isu. <i>Molecular Biology of the Cell</i> , 2008 , 19, 5259-66	3.5	22
19	Influence of prion variant and yeast strain variation on prion-molecular chaperone requirements. <i>Prion</i> , 2011 , 5, 238-244	2.3	20
18	Functionality of Class A and Class B J-protein co-chaperones with Hsp70. <i>FEBS Letters</i> , 2015 , 589, 2825-30.8	3.8	19
17	The sensitive [SWI (+)] prion: new perspectives on yeast prion diversity. <i>Prion</i> , 2011 , 5, 164-8	2.3	19
16	Broadening the functionality of a J-protein/Hsp70 molecular chaperone system. <i>PLoS Genetics</i> , 2017 , 13, e1007084	6	19
15	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, 1060-8	3.5	17
14	A conserved domain important for association of eukaryotic J-protein co-chaperones Jjj1 and Zuo1 with the ribosome. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 1035-45	4.9	17
13	Dissecting functional similarities of ribosome-associated chaperones from <i>Saccharomyces cerevisiae</i> and <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2005 , 57, 357-65	4.1	16

12	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, 643-56	8.3	12
11	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, 2233-43	4.9	11
10	Fe-S Cluster Hsp70 Chaperones: The ATPase Cycle and Protein Interactions. <i>Methods in Enzymology</i> , 2017 , 595, 161-184	1.7	10
9	Two-step mechanism of J-domain action in driving Hsp70 function. <i>PLoS Computational Biology</i> , 2020 , 16, e1007913	5	8
8	Functional analysis of a conserved amino-terminal region of HSP70 by site-directed mutagenesis. <i>Yeast</i> , 1991 , 7, 699-716	3.4	7
7	Posttranslational control of the scaffold for Fe-S cluster biogenesis as a compensatory regulatory mechanism. <i>Current Genetics</i> , 2017 , 63, 51-56	2.9	4
6	Biochemical Convergence of Mitochondrial Hsp70 System Specialized in Iron-Sulfur Cluster Biogenesis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
5	The Stress Response: Changes in Eukaryotic Gene Expression in Response to Environmental Stress . Burr G. Atkinson and David B. Walden, Eds. Academic Press, Orlando, Fla., 1985. xviii, 381 pp., illus. \$65. Cell Biology.. <i>Science</i> , 1985 , 230, 800-801	33.3	3
4	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	3.7	2
3	During FeS-cluster biogenesis ferredoxin and frataxin use overlapping bindings sites on yeast cysteine desulfurase Nfs1.. <i>Journal of Biological Chemistry</i> , 2022 , 101570	5.4	1
2	Pathway of Hsp70 interactions at the ribosome. <i>Nature Communications</i> , 2021 , 12, 5666	17.4	1
1	Essentiality of Sis1, a J-domain protein Hsp70 cochaperone, can be overcome by Tti1, a specialized PIKK chaperone.. <i>Molecular Biology of the Cell</i> , 2021 , mbcE21100493	3.5	