Caryn E Outten

List of Publications by Year
in descending order

43 papers	5,181 citations	201575 27 h-index	315616 38 g-index
44 all docs	44 docs citations	44 times ranked	5294 citing authors

#	Article	IF	Citations
1	Femtomolar Sensitivity of Metalloregulatory Proteins Controlling Zinc Homeostasis. Science, 2001, 292, 2488-2492.	6.0	1,342
2	Molecular Basis of Metal-Ion Selectivity and Zeptomolar Sensitivity by CueR. Science, 2003, 301, 1383-1387.	6.0	598
3	Transcriptional Activation of an Escherichia coliCopper Efflux Regulon by the Chromosomal MerR Homologue, CueR. Journal of Biological Chemistry, 2000, 275, 31024-31029.	1.6	288
4	The Redox Environment in the Mitochondrial Intermembrane Space Is Maintained Separately from the Cytosol and Matrix. Journal of Biological Chemistry, 2008, 283, 29126-29134.	1.6	222
5	The Yeast Iron Regulatory Proteins Grx3/4 and Fra2 Form Heterodimeric Complexes Containing a [2Fe-2S] Cluster with Cysteinyl and Histidyl Ligation. Biochemistry, 2009, 48, 9569-9581.	1.2	203
6	Identification of FRA1 and FRA2 as Genes Involved in Regulating the Yeast Iron Regulon in Response to Decreased Mitochondrial Iron-Sulfur Cluster Synthesis. Journal of Biological Chemistry, 2008, 283, 10276-10286.	1.6	202
7	DNA Distortion Mechanism for Transcriptional Activation by ZntR, a Zn(II)-responsive MerR Homologue in Escherichia coli. Journal of Biological Chemistry, 1999, 274, 37517-37524.	1.6	183
8	A novel NADH kinase is the mitochondrial source of NADPH in Saccharomyces cerevisiae. EMBO Journal, 2003, 22, 2015-2024.	3.5	155
9	Monothiol CGFS Glutaredoxins and BolA-like Proteins: [2Fe-2S] Binding Partners in Iron Homeostasis. Biochemistry, 2012, 51, 4377-4389.	1.2	139
10	The Ferric Uptake Regulation (Fur) Repressor Is a Zinc Metalloprotein. Biochemistry, 1999, 38, 6559-6569.	1.2	136
11	A New Zincâ€“protein Coordination Site in Intracellular Metal Trafficking: Solution Structure of the Apo and Zn(II) forms of ZntA(46â€“118). Journal of Molecular Biology, 2002, 323, 883-897.	2.0	132
12	Iron sensing and regulation in Saccharomyces cerevisiae: Ironing out the mechanistic details. Current Opinion in Microbiology, 2013, 16, 662-668.	2.3	131
13	Functions and Cellular Compartmentation of the Thioredoxin and Glutathione Pathways in Yeast. Antioxidants and Redox Signaling, 2013, 18, 1699-1711.	2.5	111
14	Alternative Start Sites in the Saccharomyces cerevisiae GLR1 Gene Are Responsible for Mitochondrial and Cytosolic Isoforms of Glutathione Reductase. Journal of Biological Chemistry, 2004, 279, 7785-7791.	1.6	110
15	Molecular mechanism and structure of the <i>Saccharomyces cerevisiae</i> iron regulator Aft2. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4043-4048.	3.3	109
16	Characterization of the Metal Receptor Sites inEscherichia coliZur, an Ultrasensitive Zinc(II) Metalloregulatory Proteinâ€. Biochemistry, 2001, 40, 10417-10423.	1.2	106
17	Histidine 103 in Fra2 Is an Iron-Sulfur Cluster Ligand in the [2Fe-2S] Fra2-Grx3 Complex and Is Required for in Vivo Iron Signaling in Yeast. Journal of Biological Chemistry, 2011, 286, 867-876.	1.6	105
18	Human Glutaredoxin 3 Forms [2Fe-2S]-Bridged Complexes with Human BolA2. Biochemistry, 2012, 51, 1687-1696.	1.2	99

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19	The Iron Metallome in Eukaryotic Organisms. Metal Ions in Life Sciences, 2013, 12, 241-278.	2.8	94
20	Monothiol glutaredoxins and A-type proteins: partners in Feâ€“S cluster trafficking. Dalton Transactions, 2013, 42, 3107.	1.6	91
21	Endoplasmic Reticulum Transport of Glutathione by Sec61 Is Regulated by Ero1 and Bip. Molecular Cell, 2017, 67, 962-973.e5.	4.5	91
22	Extreme Zinc-Binding Thermodynamics of the Metal Sensor/Regulator Protein, ZntR. Journal of the American Chemical Society, 2001, 123, 8614-8615.	6.6	87
23	Cellular factors required for protection from hyperoxia toxicity in Saccharomyces cerevisiae. Biochemical Journal, 2005, 388, 93-101.	1.7	71
24	Activation of Cu,Zn-Superoxide Dismutase in the Absence of Oxygen and the Copper Chaperone CCS. Journal of Biological Chemistry, 2009, 284, 21863-21871.	1.6	61
25	Redox-sensitive YFP sensors monitor dynamic nuclear and cytosolic glutathione redox changes. Free Radical Biology and Medicine, 2012, 52, 2254-2265.	1.3	49
26	The Effects of Glutaredoxin and Copper Activation Pathways on the Disulfide and Stability of Cu,Zn Superoxide Dismutase. Journal of Biological Chemistry, 2006, 281, 28648-28656.	1.6	45
27	Ironâ€“sulfur cluster signaling: The common thread in fungal iron regulation. Current Opinion in Chemical Biology, 2020, 55, 189-201.	2.8	39
28	Iron-sulfur cluster biogenesis, trafficking, and signaling: Roles for CGFS glutaredoxins and BolA proteins. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118847.	1.9	30
29	Redox properties of the disulfide bond of human Cu,Zn superoxide dismutase and the effects of human glutaredoxin 1. Biochemical Journal, 2012, 446, 59-67.	1.7	27
30	Schizosaccharomyces pombe Grx4 regulates the transcriptional repressor Php4 via [2Feâ€“2S] cluster binding. Metallomics, 2017, 9, 1096-1105.	1.0	24
31	Cytosolic Fe-S Cluster Protein Maturation and Iron Regulation Are Independent of the Mitochondrial Erv1/Mia40 Import System. Journal of Biological Chemistry, 2015, 290, 27829-27840.	1.6	19
32	The <i>Escherichia coli</i> BolA Protein IbaG Forms a Histidine-Ligated [2Fe-2S]-Bridged Complex with Grx4. Biochemistry, 2016, 55, 6869-6879.	1.2	18
33	The conserved CDC motif in the yeast iron regulator Aft2 mediates ironâ€“sulfur cluster exchange and proteinâ€“protein interactions with Grx3 and Bol2. Journal of Biological Inorganic Chemistry, 2019, 24, 809-815.	1.1	18
34	Structure of the thioredoxin-like domain of yeast glutaredoxin 3. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 927-932.	2.5	16
35	The Myeloablative Drug Busulfan Converts Cysteine to Dehydroalanine and Lanthionine in Redoxins. Biochemistry, 2016, 55, 4720-4730.	1.2	13
36	Checks and balances for the iron bank. Journal of Biological Chemistry, 2017, 292, 15990-15991.	1.6	7

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37	Characterization of Glutaredoxin Feâ€"S Cluster-Binding Interactions Using Circular Dichroism Spectroscopy. Methods in Enzymology, 2018, 599, 327-353.	0.4	7
38	Forging ahead: new mechanistic insights into iron biochemistry. Current Opinion in Chemical Biology, 2011, 15, 257-259.	2.8	2
39	The role of thiols in ironâ€"sulfur cluster biogenesis. , 2022, , 487-506.		1
40	16. The role of Fe-S clusters in regulation of yeast iron homeostasis. , 2014, , 411-436.		0
41	7 The role of Fe-S clusters in regulation of yeast iron homeostasis. , 2017, , 161-186.		0
42	Regulation of Iron Metabolism by [2Feâ€2S]â€Binding Glutaredoxins. FASEB Journal, 2018, 32, 477.2.	0.2	0
43	Monothiol Glutaredoxins Grx3/4 and the BolA Protein Bol2 Modulate Iron Sensing and Regulation in Yeast S. cerevisiae. FASEB Journal, 2019, 33, 476.1.	0.2	0