Valeria C Culotta

List of Publications by Year
in descending order

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36 papers	2,199 citations	304743 22 h-index	377865 34 g-index
38 all docs	38 docs citations	38 times ranked	3112 citing authors

#	Article	IF	Citations
1	Biochemical Analysis of <i>Caur</i>SOD4, a Potential Therapeutic Target for the Emerging Fungal Pathogen <i>Candida auris</i>. ACS Infectious Diseases, 2022, 8, 584-595.	3.8	0
2	Shining light on photosynthetic microbes and manganese-enriched rock varnish. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2109436118.	7.1	0
3	Ceruloplasmin as a source of Cu for a fungal pathogen. Journal of Inorganic Biochemistry, 2021, 219, 111424.	3.5	6
4	Copper in infectious disease: Using both sides of the penny. Seminars in Cell and Developmental Biology, 2021, 115, 19-26.	5.0	16
5	Cdc42 regulates reactive oxygen species production in the pathogenic yeast Candida albicans. Journal of Biological Chemistry, 2021, 297, 100917.	3.4	3
6	Copper-only superoxide dismutase enzymes and iron starvation stress in Candida fungal pathogens. Journal of Biological Chemistry, 2020, 295, 570-583.	3.4	25
7	Expanded role of the Cuâ€sensing transcription factor Mac1p in <i>Candida albicans</i>. Molecular Microbiology, 2020, 114, 1006-1018.	2.5	13
8	Changes in mammalian copper homeostasis during microbial infection. Metallomics, 2020, 12, 416-426.	2.4	25
9	Exploiting the vulnerable active site of a copper-only superoxide dismutase to disrupt fungal pathogenesis. Journal of Biological Chemistry, 2019, 294, 2700-5412.	3.4	15
10	Eukaryotic copper-only superoxide dismutases (SODs): A new class of SOD enzymes and SOD-like protein domains. Journal of Biological Chemistry, 2018, 293, 4636-4643.	3.4	63
11	Chemical Warfare at the Microorganismal Level: A Closer Look at the Superoxide Dismutase Enzymes of Pathogens. ACS Infectious Diseases, 2018, 4, 893-903.	3.8	28
12	Role of Calprotectin in Withholding Zinc and Copper from Candida albicans. Infection and Immunity, 2018, 86, .	2.2	98
13	A role for Candida albicans superoxide dismutase enzymes in glucose signaling. Biochemical and Biophysical Research Communications, 2018, 495, 814-820.	2.1	16
14	Antimicrobial action of calprotectin that does not involve metal withholding. Metallomics, 2018, 10, 1728-1742.	2.4	17
15	Intersection of phosphate transport, oxidative stress and TOR signalling in Candida albicans virulence. PLoS Pathogens, 2018, 14, e1007076.	4.7	54
16	Candida albicans FRE8 encodes a member of the NADPH oxidase family that produces a burst of ROS during fungal morphogenesis. PLoS Pathogens, 2017, 13, e1006763.	4.7	57
17	SOD Enzymes and Microbial Pathogens: Surviving the Oxidative Storm of Infection. PLoS Pathogens, 2016, 12, e1005295.	4.7	107
18	The Yin and Yang of copper during infection. Journal of Biological Inorganic Chemistry, 2016, 21, 137-144.	2.6	162

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19	The Phylogeny and Active Site Design of Eukaryotic Copper-only Superoxide Dismutases. Journal of Biological Chemistry, 2016, 291, 20911-20923.	3.4	27
20	An Adaptation to Low Copper in Candida albicans Involving SOD Enzymes and the Alternative Oxidase. PLoS ONE, 2016, 11, e0168400.	2.5	36
21	Cu/Zn superoxide dismutase and the proton ATPase Pma1p ofÂ Saccharomyces cerevisiae. Biochemical and Biophysical Research Communications, 2015, 462, 251-256.	2.1	8
22	Species-specific activation of Cu/Zn SOD by its CCS copper chaperone in the pathogenic yeast Candida albicans. Journal of Biological Inorganic Chemistry, 2014, 19, 595-603.	2.6	36
23	Setting a trap for copper. Nature Chemical Biology, 2014, 10, 986-987.	8.0	2
24	SOD1 Integrates Signals from Oxygen and Glucose to Repress Respiration. Cell, 2013, 152, 224-235.	28.9	186
25	Manganese Complexes: Diverse Metabolic Routes to Oxidative Stress Resistance in Prokaryotes and Yeast. Antioxidants and Redox Signaling, 2013, 19, 933-944.	5.4	124
26	Superoxide Triggers an Acid Burst in Saccharomyces cerevisiae to Condition the Environment of Glucose-starved Cells. Journal of Biological Chemistry, 2013, 288, 4557-4566.	3.4	14
27	A Manganese-rich Environment Supports Superoxide Dismutase Activity in a Lyme Disease Pathogen, Borrelia burgdorferi. Journal of Biological Chemistry, 2013, 288, 8468-8478.	3.4	65
28	Battles with Iron: Manganese in Oxidative Stress Protection. Journal of Biological Chemistry, 2012, 287, 13541-13548.	3.4	249
29	Post-Translational Modification of Cu/Zn Superoxide Dismutase under Anaerobic Conditions. Biochemistry, 2012, 51, 677-685.	2.5	24
30	Cell biology of copper. Journal of Biological Inorganic Chemistry, 2010, 15, 1-2.	2.6	22
31	Probing in vivo Mn²⁺speciation and oxidative stress resistance in yeast cells with electron-nuclear double resonance spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15335-15339.	7.1	113
32	Disrupted Zinc-Binding Sites in Structures of Pathogenic SOD1 Variants D124V and H80R. Biochemistry, 2010, 49, 5714-5725.	2.5	50
33	The overlapping roles of manganese and Cu/Zn SOD in oxidative stress protection. Free Radical Biology and Medicine, 2009, 46, 154-162.	2.9	101
34	The many highways for intracellular trafficking of metals. Journal of Biological Inorganic Chemistry, 2003, 8, 803-809.	2.6	104
35	Crystal structure of the copper chaperone for superoxide dismutase. Nature Structural Biology, 1999, 6, 724-729.	9.7	175
36	Multiple Protein Domains Contribute to the Action of the Copper Chaperone for Superoxide Dismutase. Journal of Biological Chemistry, 1999, 274, 23719-23725.	3.4	158