Kevin J Waldron

List of Publications by Year
in descending order

49 papers	3,717 citations	236925 25 h-index	243625 44 g-index
58 all docs	58 docs citations	58 times ranked	4796 citing authors

#	Article	IF	Citations
1	Metalloproteins and metal sensing. Nature, 2009, 460, 823-830.	27.8	1,031
2	How do bacterial cells ensure that metalloproteins get the correct metal?. Nature Reviews Microbiology, 2009, 7, 25-35.	28.6	693
3	Protein-folding location can regulate manganese-binding versus copper- or zinc-binding. Nature, 2008, 455, 1138-1142.	27.8	281
4	Copper Homeostasis in Salmonella Is Atypical and Copper-CueP Is a Major Periplasmic Metal Complex. Journal of Biological Chemistry, 2010, 285, 25259-25268.	3.4	149
5	Copper tolerance in bacteria requires the activation of multiple accessory pathways. Molecular Microbiology, 2020, 114, 377-390.	2.5	118
6	BACE1 Cytoplasmic Domain Interacts with the Copper Chaperone for Superoxide Dismutase-1 and Binds Copper. Journal of Biological Chemistry, 2005, 280, 17930-17937.	3.4	111
7	Mycobacterial Cells Have Dual Nickel-Cobalt Sensors. Journal of Biological Chemistry, 2007, 282, 32298-32310.	3.4	91
8	Cyanobacterial metallochaperone inhibits deleterious side reactions of copper. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 95-100.	7.1	91
9	A Superoxide Dismutase Capable of Functioning with Iron or Manganese Promotes the Resistance of Staphylococcus aureus to Calprotectin and Nutritional Immunity. PLoS Pathogens, 2017, 13, e1006125.	4.7	89
10	A four-helix bundle stores copper for methane oxidation. Nature, 2015, 525, 140-143.	27.8	83
11	Structural characterization of encapsulated ferritin provides insight into iron storage in bacterial nanocompartments. ELife, 2016, 5, .	6.0	77
12	Factors Required for Activation of Urease as a Virulence Determinant in Cryptococcus neoformans. MBio, 2013, 4, e00220-13.	4.1	73
13	FutA2 Is a Ferric Binding Protein from Synechocystis PCC 6803. Journal of Biological Chemistry, 2008, 283, 12520-12527.	3.4	56
14	Bacterial cytosolic proteins with a high capacity for Cu(I) that protect against copper toxicity. Scientific Reports, 2016, 6, 39065.	3.3	52
15	Copper stress in Staphylococcus aureus leads to adaptive changes in central carbon metabolism. Metallomics, 2019, 11, 183-200.	2.4	51
16	Handling of nutrient copper in the bacterial envelope. Metallomics, 2019, 11, 50-63.	2.4	51
17	The Role of Intermetal Competition and Mis-Metalation in Metal Toxicity. Advances in Microbial Physiology, 2017, 70, 315-379.	2.4	48
18	A horizontally gene transferred copper resistance locus confers hyperâ€resistance to antibacterial copper toxicity and enables survival of community acquired methicillin resistant Staphylococcus aureus USA300 in macrophages. Environmental Microbiology, 2018, 20, 1576-1589.	3.8	48

#	Article	IF	Citations
19	A Periplasmic Iron-binding Protein Contributes toward Inward Copper Supply. Journal of Biological Chemistry, 2007, 282, 3837-3846.	3.4	46
20	Pho4 mediates phosphate acquisition inCandida albicansand is vital for stress resistance and metal homeostasis. Molecular Biology of the Cell, 2016, 27, 2784-2801.	2.1	46
21	Role of Glutathione in Buffering Excess Intracellular Copper in Streptococcus pyogenes. MBio, 2020, 11, .	4.1	40
22	Measuring DNA repair incision activity of mouse tissue extracts towards singlet oxygen-induced DNA damage: a comet-based in vitro repair assay. Mutagenesis, 2011, 26, 461-471.	2.6	39
23	Mobile-Genetic-Element-Encoded Hypertolerance to Copper Protects Staphylococcus aureus from Killing by Host Phagocytes. MBio, 2018, 9, .	4.1	33
24	Structure and Metal Loading of a Soluble Periplasm Cuproprotein. Journal of Biological Chemistry, 2010, 285, 32504-32511.	3.4	31
25	Cellular Iron Distribution in Bacillus anthracis. Journal of Bacteriology, 2012, 194, 932-940.	2.2	31
26	Interaction between cyanobacterial copper chaperone Atx1 and zinc homeostasis. Journal of Biological Inorganic Chemistry, 2010, 15, 77-85.	2.6	27
27	Conservation of the structural and functional architecture of encapsulated ferritins in bacteria and archaea. Biochemical Journal, 2019, 476, 975-989.	3.7	23
28	An evolutionary path to altered cofactor specificity in a metalloenzyme. Nature Communications, 2020, 11, 2738.	12.8	22
29	Pore dynamics and asymmetric cargo loading in an encapsulin nanocompartment. Science Advances, 2022, 8, eabj4461.	10.3	22
30	NMR structural analysis of the soluble domain of ZiaA-ATPase and the basis of selective interactions with copper metallochaperone Atx1. Journal of Biological Inorganic Chemistry, 2010, 15, 87-98.	2.6	19
31	Osteoinduction of 3D printed particulate and short-fibre reinforced composites produced using PLLA and apatite-wollastonite. Composites Science and Technology, 2019, 184, 107834.	7.8	18
32	Hepatoprotective Effects of Selenium-Enriched Probiotics Supplementation on Heat-Stressed Wistar Rat Through Anti-Inflammatory and Antioxidant Effects. Biological Trace Element Research, 2021, 199, 3445-3456.	3.5	18
33	Mass spectrometry reveals the assembly pathway of encapsulated ferritins and highlights a dynamic ferroxidase interface. Chemical Communications, 2020, 56, 3417-3420.	4.1	14
34	Dissecting the structural and functional roles of a putative metal entry site in encapsulated ferritins. Journal of Biological Chemistry, 2020, 295, 15511-15526.	3.4	13
35	Synthetic biology approaches to copper remediation: bioleaching, accumulation and recycling. FEMS Microbiology Ecology, 2021, 97, .	2.7	11
36	Fabrication routes via projection stereolithography for 3D-printing of microfluidic geometries for nucleic acid amplification. PLoS ONE, 2020, 15, e0240237.	2.5	11

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37	Tissue differences in BER-related incision activity and non-specific nuclease activity as measured by the comet assay. Mutagenesis, 2013, 28, 673-681.	2.6	10
38	Archaeoglobus Fulgidus DNA Polymerase D: A Zinc-Binding Protein Inhibited by Hypoxanthine and Uracil. Journal of Molecular Biology, 2016, 428, 2805-2813.	4.2	10
39	A charge polarization model for the metal-specific activity of superoxide dismutases. Physical Chemistry Chemical Physics, 2018, 20, 2363-2372.	2.8	7
40	Comparison of total ionic strength adjustment buffers III and IV in the measurement of fluoride concentration of teas. Nutrition and Health, 2018, 24, 111-119.	1.5	7
41	Old dogs, new tricks: New insights into the iron/manganese superoxide dismutase family. Journal of Inorganic Biochemistry, 2022, 230, 111748.	3.5	7
42	Role of horizontally transferred copper resistance genes in Staphylococcus aureus and Listeria monocytogenes. Microbiology (United Kingdom), 2022, 168, .	1.8	6
43	Blocking Polyphosphate Mobilization Inhibits Pho4 Activation and Virulence in the Pathogen Candida albicans. MBio, 2022, 13, e0034222.	4.1	2
44	Title is missing!. , 2020, 15, e0240237.		0
45	Title is missing!. , 2020, 15, e0240237.		0
46	Title is missing!. , 2020, 15, e0240237.		0
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