

Christopher A Mcdevitt

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

2,661

citations

28

h-index

50

g-index

93

ext. papers

3,407

ext. citations

5.9

avg, IF

4.94

L-index

#	Paper	IF	Citations
83	A molecular mechanism for bacterial susceptibility to zinc. <i>PLoS Pathogens</i> , 2011 , 7, e1002357	7.6	281
82	The TatA component of the twin-arginine protein transport system forms channel complexes of variable diameter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10482-6	11.5	225
81	Purification and 3D structural analysis of oligomeric human multidrug transporter ABCG2. <i>Structure</i> , 2006 , 14, 1623-32	5.2	107
80	Molecular analysis of dimethyl sulphide dehydrogenase from <i>Rhodovulum sulfidophilum</i> : its place in the dimethyl sulphoxide reductase family of microbial molybdopterin-containing enzymes. <i>Molecular Microbiology</i> , 2002 , 44, 1575-87	4.1	104
79	Imperfect coordination chemistry facilitates metal ion release in the Psa permease. <i>Nature Chemical Biology</i> , 2014 , 10, 35-41	11.7	103
78	How can we best use structural information on P-glycoprotein to design inhibitors? 2007 , 113, 429-41		98
77	The DMSO Reductase Family of Microbial Molybdenum Enzymes; Molecular Properties and Role in the Dissimilatory Reduction of Toxic Elements. <i>Geomicrobiology Journal</i> , 2002 , 19, 3-21	2.5	96
76	Extracellular zinc competitively inhibits manganese uptake and compromises oxidative stress management in <i>Streptococcus pneumoniae</i> . <i>PLoS ONE</i> , 2014 , 9, e89427	3.7	81
75	Central role of manganese in regulation of stress responses, physiology, and metabolism in <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2010 , 192, 4489-97	3.5	79
74	Dysregulation of transition metal ion homeostasis is the molecular basis for cadmium toxicity in <i>Streptococcus pneumoniae</i> . <i>Nature Communications</i> , 2015 , 6, 6418	17.4	77
73	AdcA and AdcAll employ distinct zinc acquisition mechanisms and contribute additively to zinc homeostasis in <i>Streptococcus pneumoniae</i> . <i>Molecular Microbiology</i> , 2014 , 91, 834-51	4.1	76
72	ZnuA and zinc homeostasis in <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2015 , 5, 13139	4.9	74
71	The Metallophore Staphylopin Enables To Compete with the Host for Zinc and Overcome Nutritional Immunity. <i>MBio</i> , 2017 , 8,	7.8	70
70	The role of ATP-binding cassette transporters in bacterial pathogenicity. <i>Protoplasma</i> , 2012 , 249, 919-423.4		66
69	Conformational and dynamic plasticity in substrate-binding proteins underlies selective transport in ABC importers. <i>ELife</i> , 2019 , 8,	8.9	59
68	Subunit composition and in vivo substrate-binding characteristics of <i>Escherichia coli</i> Tat protein complexes expressed at native levels. <i>FEBS Journal</i> , 2006 , 273, 5656-68	5.7	45
67	An optimized SEC-SAXS system enabling high X-ray dose for rapid SAXS assessment with correlated UV measurements for biomolecular structure analysis. <i>Journal of Applied Crystallography</i> , 2018 , 51, 97-111	3.8	41

66	Characterization of the redox centers in dimethyl sulfide dehydrogenase from <i>Rhodovulum sulfidophilum</i> . <i>Biochemistry</i> , 2002 , 41, 15234-44	3.2	41
65	Manganese uptake and streptococcal virulence. <i>BioMetals</i> , 2015 , 28, 491-508	3.4	40
64	Generating inhibitors of P-glycoprotein: where to, now?. <i>Methods in Molecular Biology</i> , 2010 , 596, 405-321.4	3.4	37
63	Is ATP binding responsible for initiating drug translocation by the multidrug transporter ABCG2?. <i>FEBS Journal</i> , 2008 , 275, 4354-62	5.7	36
62	Degrees of chloroquine resistance in Plasmodium - is the redox system involved?. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2012 , 2, 47-57	4	33
61	Antimicrobial Susceptibility of and spp. Isolates From Healthy Pigs in Australia: Results of a Pilot National Survey. <i>Frontiers in Microbiology</i> , 2018 , 9, 1207	5.7	32
60	Prokaryotic substrate-binding proteins as targets for antimicrobial therapies. <i>Current Drug Targets</i> , 2012 , 13, 1400-10	3	32
59	Chemical Synergy between Ionophore PBT2 and Zinc Reverses Antibiotic Resistance. <i>MBio</i> , 2018 , 9,	7.8	31
58	The central cavity of ABCB1 undergoes alternating access during ATP hydrolysis. <i>FEBS Journal</i> , 2014 , 281, 2190-2201	5.7	30
57	Characterisation of Tat protein transport complexes carrying inactivating mutations. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 329, 693-8	3.4	30
56	Zinc stress induces copper depletion in <i>Acinetobacter baumannii</i> . <i>BMC Microbiology</i> , 2017 , 17, 59	4.5	28
55	Autoinducer 2 Signaling via the Phosphotransferase FruA Drives Galactose Utilization by <i>Streptococcus pneumoniae</i> , Resulting in Hypervirulence. <i>MBio</i> , 2017 , 8,	7.8	27
54	The First Histidine Triad Motif of PhtD Is Critical for Zinc Homeostasis in <i>Streptococcus pneumoniae</i> . <i>Infection and Immunity</i> , 2016 , 84, 407-15	3.7	27
53	Microstructured optical fibers and live cells: a water-soluble, photochromic zinc sensor. <i>Biomacromolecules</i> , 2013 , 14, 3376-9	6.9	27
52	Overlapping functionality of the Pht proteins in zinc homeostasis of <i>Streptococcus pneumoniae</i> . <i>Infection and Immunity</i> , 2014 , 82, 4315-24	3.7	27
51	Purification and structural analyses of ABCG2. <i>Advanced Drug Delivery Reviews</i> , 2009 , 61, 57-65	18.5	27
50	Microstructured Optical Fiber-based Biosensors: Reversible and Nanoliter-Scale Measurement of Zinc Ions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12727-32	9.5	27
49	Synergy between Nutritional Immunity and Independent Host Defenses Contributes to the Importance of the MntABC Manganese Transporter during Infection. <i>Infection and Immunity</i> , 2019 , 87,	3.7	26

48	Identification of Novel Host Fatty Acid Stress Adaptation Strategies. <i>MBio</i> , 2019 , 10,	7.8	25
47	Improving the stability and function of purified ABCB1 and ABCA4: the influence of membrane lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 134-47	3.8	24
46	The Role of the CopA Copper Efflux System in Virulence. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	23
45	Dietary zinc and the control of <i>Streptococcus pneumoniae</i> infection. <i>PLoS Pathogens</i> , 2019 , 15, e1007957.	7.6	23
44	Acquisition and role of molybdate in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2014 , 80, 6843-52	4.8	23
43	Arachidonic Acid Stress Impacts Pneumococcal Fatty Acid Homeostasis. <i>Frontiers in Microbiology</i> , 2018 , 9, 813	5.7	22
42	Zinc-binding to the cytoplasmic PAS domain regulates the essential Walk histidine kinase of <i>Staphylococcus aureus</i> . <i>Nature Communications</i> , 2019 , 10, 3067	17.4	20
41	The zinc efflux activator SczA protects <i>Streptococcus pneumoniae</i> serotype 2 D39 from intracellular zinc toxicity. <i>Molecular Microbiology</i> , 2017 , 104, 636-651	4.1	19
40	Structural insights into P-glycoprotein (ABCB1) by small angle X-ray scattering and electron crystallography. <i>FEBS Letters</i> , 2008 , 582, 2950-6	3.8	18
39	Aerobic nitrate respiration in a nitrite-oxidising bioreactor. <i>FEMS Microbiology Letters</i> , 2000 , 184, 113-8	2.9	18
38	Genome-Wide Mutagenesis of Dengue Virus Reveals Plasticity of the NS1 Protein and Enables Generation of Infectious Tagged Reporter Viruses. <i>Journal of Virology</i> , 2017 , 91,	6.6	17
37	Discovery of novel pneumococcal surface antigen A (PsaA) inhibitors using a fragment-based drug design approach. <i>ACS Chemical Biology</i> , 2015 , 10, 1511-20	4.9	17
36	Multiple Bactericidal Mechanisms of the Zinc Ionophore PBT2. <i>MSphere</i> , 2020 , 5,	5	14
35	Repurposing a neurodegenerative disease drug to treat Gram-negative antibiotic-resistant bacterial sepsis. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	13
34	Experimental Evolution To Identify Selective Pressures during Pneumococcal Colonization. <i>MSystems</i> , 2020 , 5,	7.6	11
33	The Role of Zinc Efflux during Infection. <i>ACS Infectious Diseases</i> , 2020 , 6, 150-158	5.5	11
32	Host-imposed manganese starvation of invading pathogens: two routes to the same destination. <i>BioMetals</i> , 2015 , 28, 509-19	3.4	10
31	Intracellular Accumulation of Staphylopin Can Sensitize <i>Staphylococcus aureus</i> to Host-Imposed Zinc Starvation by Chelation-Independent Toxicity. <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	10

30	Comparing Nonbonded Metal Ion Models in the Divalent Cation Binding Protein PsaA. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 1913-1923	6.4	9
29	Selenium mediates exercise-induced adult neurogenesis and reverses learning deficits induced by hippocampal injury and aging.. <i>Cell Metabolism</i> , 2022 ,	24.6	9
28	Exploring the Use of Structure and Polymer Incorporation to Tune Silver Ion Release and Antibacterial Activity of Silver Coordination Polymers. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 3512-3518	2.3	9
27	Characterizing the conformational dynamics of metal-free PsaA using molecular dynamics simulations and electron paramagnetic resonance spectroscopy. <i>Biophysical Chemistry</i> , 2015 , 207, 51-60	3.5	8
26	Cadmium stress dictates central carbon flux and alters membrane composition in Streptococcus pneumoniae. <i>Communications Biology</i> , 2020 , 3, 694	6.7	8
25	Defining the Role of the Sht-Family Proteins in Zinc Acquisition and Complement Evasion. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	5
24	The structure and activity of the glutathione reductase from Streptococcus pneumoniae. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019 , 75, 54-61	1.1	5
23	A Trap-Door Mechanism for Zinc Acquisition by AdcA. <i>MBio</i> , 2021 , 12,	7.8	5
22	Heterogeneous nucleation is required for crystallization of the ZnuA domain of pneumococcal AdcA. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015 , 71, 1459-64	1.1	4
21	Structure and Metal Binding Properties of YtgA. <i>Journal of Bacteriology</i> , 2019 , 202,	3.5	3
20	Disruption of Phosphate Homeostasis Sensitizes Staphylococcus aureus to Nutritional Immunity. <i>Infection and Immunity</i> , 2020 , 88,	3.7	3
19	Structural and functional characterizations of the C-terminal domains of CzcD proteins. <i>Journal of Inorganic Biochemistry</i> , 2020 , 208, 111087	4.2	3
18	Biotin-mediated growth and gene expression in Staphylococcus aureus is highly responsive to environmental biotin. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 3793-3803	5.7	3
17	The Role of ZntA in Klebsiella pneumoniae Zinc Homeostasis.. <i>Microbiology Spectrum</i> , 2022 , e0177321	8.9	3
16	CrAg coatings: synthesis, microstructure and antimicrobial properties. <i>Surface Engineering</i> , 2019 , 35, 596-603	2.6	3
15	Absence of high priority critically important antimicrobial resistance in Salmonella sp. isolated from Australian commercial egg layer environments. <i>International Journal of Food Microbiology</i> , 2021 , 340, 109042	5.8	3
14	Structural characterisation of the HT3 motif of the polyhistidine triad protein D from Streptococcus pneumoniae. <i>FEBS Letters</i> , 2018 , 592, 2341-2350	3.8	3
13	The biochemical fate of Ag ions in Staphylococcus aureus, Escherichia coli, and biological media. <i>Journal of Inorganic Biochemistry</i> , 2021 , 225, 111598	4.2	3

12	Author response: Conformational and dynamic plasticity in substrate-binding proteins underlies selective transport in ABC importers 2019 ,		2
11	Manganese import protects <i>Salmonella enterica</i> serovar Typhimurium against nitrosative stress. <i>Metalomics</i> , 2020 , 12, 1791-1801	4.5	2
10	A Liposomal Platform for Sensing of Extracellular Analytes Near Cells. <i>Biosensors</i> , 2018 , 8,	5.9	2
9	The structural basis of bacterial manganese import. <i>Science Advances</i> , 2021 , 7,	14.3	2
8	Conformation of the Solute-Binding Protein AdcAll Influences Zinc Uptake in. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021 , 11, 729981	5.9	2
7	MntP and YiiP Contribute to Manganese Efflux in <i>Salmonella enterica</i> Serovar Typhimurium under Conditions of Manganese Overload and Nitrosative Stress.. <i>Microbiology Spectrum</i> , 2022 , e0131621	8.9	1
6	Rescuing Tetracycline Class Antibiotics for the Treatment of Multidrug-Resistant <i>Acinetobacter baumannii</i> Pulmonary Infection.. <i>MBio</i> , 2022 , e0351721	7.8	1
5	Dysregulation of <i>Streptococcus pneumoniae</i> zinc homeostasis breaks ampicillin resistance in a pneumonia infection model.. <i>Cell Reports</i> , 2022 , 38, 110202	10.6	1
4	The Molecular Basis of <i>Acinetobacter baumannii</i> Cadmium Toxicity and Resistance. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0171821	4.8	1
3	Structural and biochemical characterization of <i>Acinetobacter baumannii</i> ZnuA.. <i>Journal of Inorganic Biochemistry</i> , 2022 , 231, 111787	4.2	0
2	Metal ion Toxicity and Oxidative Stress in <i>Streptococcus Pneumoniae</i> 2016 , 1184-1193		
1	Discovery of novel Pneumococcal surface adhesin A (PsaA) inhibitors using fragment-based drug design. <i>FASEB Journal</i> , 2015 , 29, LB477	0.9	