

# Jeffrey M Boyd

## List of Publications by Year in descending order

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61  
papers

1,996  
citations

201674

27  
h-index

276875

41  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2503  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Membrane-Associated Methane Monooxygenase (pMMO) and pMMO-NADH:Quinone Oxidoreductase Complex from <i>Methylococcus capsulatus</i> Bath. <i>Journal of Bacteriology</i> , 2003, 185, 5755-5764.	2.2	196
2	Impaired respiration elicits SrrAB-dependent programmed cell lysis and biofilm formation in <i>Staphylococcus aureus</i> . <i>ELife</i> , 2017, 6, .	6.0	107
3	Evolution of salt tolerance in a laboratory reared population of <i>Chlamydomonas reinhardtii</i> . <i>Environmental Microbiology</i> , 2014, 16, 1755-1766.	3.8	94
4	A universal cloning method based on yeast homologous recombination that is simple, efficient, and versatile. <i>Journal of Microbiological Methods</i> , 2014, 100, 46-51.	1.6	90
5	Transcriptional Profiling of <i>Staphylococcus aureus</i> During Growth in 2M NaCl Leads to Clarification of Physiological Roles for Kdp and Ktr K <sup>+</sup> Uptake Systems. <i>MBio</i> , 2013, 4, .	4.1	78
6	The <i>Staphylococcus aureus</i> ArlRS Two-Component System Is a Novel Regulator of Agglutination and Pathogenesis. <i>PLoS Pathogens</i> , 2013, 9, e1003819.	4.7	78
7	<i>Staphylococcus aureus</i> Responds to the Central Metabolite Pyruvate To Regulate Virulence. <i>MBio</i> , 2018, 9, .	4.1	69
8	Nfu facilitates the maturation of iron-sulfur proteins and participates in virulence in <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , 2015, 95, 383-409.	2.5	60
9	Membrane-Associated Quinoprotein Formaldehyde Dehydrogenase from <i>Methylococcus capsulatus</i> Bath. <i>Journal of Bacteriology</i> , 2001, 183, 6832-6840.	2.2	59
10	Bacterial ApbC Can Bind and Effectively Transfer Iron-Sulfur Clusters. <i>Biochemistry</i> , 2008, 47, 8195-8202.	2.5	52
11	Archaeal ApbC/Nbp35 Homologs Function as Iron-Sulfur Cluster Carrier Proteins. <i>Journal of Bacteriology</i> , 2009, 191, 1490-1497.	2.2	52
12	The SrrAB two-component system regulates <i>Staphylococcus aureus</i> pathogenicity through redox sensitive cysteines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10989-10999.	7.1	50
13	SaeRS Is Responsive to Cellular Respiratory Status and Regulates Fermentative Biofilm Formation in <i>Staphylococcus aureus</i> . <i>Infection and Immunity</i> , 2017, 85, .	2.2	48
14	Phosphatidylinositol-Specific Phospholipase C Contributes to Survival of <i>Staphylococcus aureus</i> USA300 in Human Blood and Neutrophils. <i>Infection and Immunity</i> , 2014, 82, 1559-1571.	2.2	45
15	The Suf Iron-Sulfur Cluster Biosynthetic System Is Essential in <i>Staphylococcus aureus</i> , and Decreased Suf Function Results in Global Metabolic Defects and Reduced Survival in Human Neutrophils. <i>Infection and Immunity</i> , 2017, 85, .	2.2	43
16	Methionine Sulfoxide Reductases Protect against Oxidative Stress in <i>Staphylococcus aureus</i> ; Encountering Exogenous Oxidants and Human Neutrophils. <i>Journal of Innate Immunity</i> , 2014, 6, 353-364.	3.8	42
17	One-Pot Hydrothermal Synthesis of Benzalkonium-Templated Mesostructured Silica Antibacterial Agents. <i>Journal of the American Chemical Society</i> , 2018, 140, 13534-13537.	13.7	41
18	The <i>Staphylococcus aureus</i> SrrAB Regulatory System Modulates Hydrogen Peroxide Resistance Factors, Which Imparts Protection to Aconitase during Aerobic Growth. <i>PLoS ONE</i> , 2017, 12, e0170283.	2.5	41

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19	Bacillithiol has a role in <i>S</i> cluster biogenesis in <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , 2015, 98, 218-242.	2.5	40
20	Using Natural Selection to Explore the Adaptive Potential of <i>Chlamydomonas reinhardtii</i> . <i>PLoS ONE</i> , 2014, 9, e92533.	2.5	37
21	The DUF59 Containing Protein SufT Is Involved in the Maturation of Iron-Sulfur (FeS) Proteins during Conditions of High FeS Cofactor Demand in <i>Staphylococcus aureus</i> . <i>PLoS Genetics</i> , 2016, 12, e1006233.	3.5	37
22	Bacterial Acetone Carboxylase Is a Manganese-dependent Metalloenzyme. <i>Journal of Biological Chemistry</i> , 2004, 279, 46644-46651.	3.4	35
23	The copBL operon protects <i>Staphylococcus aureus</i> from copper toxicity: CopL is an extracellular membrane-associated copper-binding protein. <i>Journal of Biological Chemistry</i> , 2019, 294, 4027-4044.	3.4	34
24	Bacterial ApbC Protein Has Two Biochemical Activities That Are Required for in Vivo Function. <i>Journal of Biological Chemistry</i> , 2009, 284, 110-118.	3.4	31
25	Bacterial Approaches for Assembling Iron-Sulfur Proteins. <i>MBio</i> , 2021, 12, e0242521.	4.1	31
26	A Small-Molecule Inhibitor of Iron-Sulfur Cluster Assembly Uncovers a Link between Virulence Regulation and Metabolism in <i>Staphylococcus aureus</i> . <i>Cell Chemical Biology</i> , 2016, 23, 1351-1361.	5.2	30
27	<i>Salmonella enterica</i> Requires ApbC Function for Growth on Tricarballoylate: Evidence of Functional Redundancy between ApbC and IscU. <i>Journal of Bacteriology</i> , 2008, 190, 4596-4602.	2.2	29
28	Physiological roles of bacillithiol in intracellular metal processing. <i>Current Genetics</i> , 2016, 62, 59-65.	1.7	28
29	<i>Staphylococcus aureus</i> SufT: an essential iron-sulphur cluster assembly factor in cells experiencing a high demand for lipoic acid. <i>Molecular Microbiology</i> , 2016, 102, 1099-1119.	2.5	27
30	Drug-like Fragments Inhibit agr-Mediated Virulence Expression in <i>Staphylococcus aureus</i> . <i>Scientific Reports</i> , 2019, 9, 6786.	3.3	24
31	ATP-Dependent Enolization of Acetone by Acetone Carboxylase from <i>Rhodobacter capsulatus</i> . <i>Biochemistry</i> , 2005, 44, 8543-8553.	2.5	23
32	Structure-Guided Design of a Fluorescent Probe for the Visualization of FtsZ in Clinically Important Gram-Positive and Gram-Negative Bacterial Pathogens. <i>Scientific Reports</i> , 2019, 9, 20092.	3.3	22
33	Genetic Regulation of Metal Ion Homeostasis in <i>Staphylococcus aureus</i> . <i>Trends in Microbiology</i> , 2020, 28, 821-831.	7.7	22
34	Metabolic control of virulence factor production in <i>Staphylococcus aureus</i> . <i>Current Opinion in Microbiology</i> , 2020, 55, 81-87.	5.1	20
35	<i>Staphylococcus aureus</i> lacking a functional MntABC manganese import system has increased resistance to copper. <i>Molecular Microbiology</i> , 2021, 115, 554-573.	2.5	20
36	Inhibition of Fructose-1,6-bisphosphatase by Aminoimidazole Carboxamide Ribotide Prevents Growth of <i>Salmonella enterica</i> purH Mutants on Glycerol. <i>Journal of Biological Chemistry</i> , 2006, 281, 33892-33899.	3.4	19

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37	Contribution of YjbH to Virulence Factor Expression and Host Colonization in <i>Staphylococcus aureus</i> . <i>Infection and Immunity</i> , 2019, 87, .	2.2	19
38	The RicAFT (YmcA <sup>YlbF</sup> YaaT) complex carries two [4Fe-4S] 2+ clusters and may respond to redox changes. <i>Molecular Microbiology</i> , 2017, 104, 837-850.	2.5	16
39	De Novo Assembly of Plasmids Using Yeast Recombinational Cloning. <i>Methods in Molecular Biology</i> , 2015, 1373, 33-41.	0.9	15
40	Superoxide Dismutase and Pseudocatalase Increase Tolerance to Hg(II) in <i>Thermus thermophilus</i> HB27 by Maintaining the Reduced Bacillithiol Pool. <i>MBio</i> , 2019, 10, .	4.1	15
41	<i>Propionibacterium acnes</i> susceptibility to low-level 449-nm blue light photobiomodulation. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 727-734.	2.1	14
42	The Stereoselectivity and Catalytic Properties of Xanthobacter autotrophicus 2-[(R)-2-Hydroxypropylthio]ethanesulfonate Dehydrogenase Are Controlled by Interactions between C-Terminal Arginine Residues and the Sulfonate of Coenzyme M. <i>Biochemistry</i> , 2004, 43, 6763-6771.	2.5	12
43	Characterization of 2-Bromoethanesulfonate as a Selective Inhibitor of the Coenzyme M-Dependent Pathway and Enzymes of Bacterial Aliphatic Epoxide Metabolism. <i>Journal of Bacteriology</i> , 2006, 188, 8062-8069.	2.2	12
44	The ClpCP Complex Modulates Respiratory Metabolism in <i>Staphylococcus aureus</i> and Is Regulated in a SrrAB-Dependent Manner. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	12
45	Impact of FtsZ Inhibition on the Localization of the Penicillin Binding Proteins in Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2021, 203, e0020421.	2.2	12
46	Evidence for a Metal-Thiolate Intermediate in Alkyl Group Transfer from Epoxypropane to Coenzyme M and Cooperative Metal Ion Binding in Epoxyalkane:CoM Transferase. <i>Biochemistry</i> , 2005, 44, 13151-13162.	2.5	11
47	Synthesis, Characterization, and Investigation of the Antimicrobial Activity of Cetylpyridinium Tetrachlorozincate. <i>ACS Omega</i> , 2020, 5, 10359-10365.	3.5	11
48	Growth and Stress Tolerance Comprise Independent Metabolic Strategies Critical for <i>Staphylococcus aureus</i> Infection. <i>MBio</i> , 2021, 12, e0081421.	4.1	11
49	Mechanism of Inhibition of Aliphatic Epoxide Carboxylation by the Coenzyme M Analog 2-Bromoethanesulfonate. <i>Journal of Biological Chemistry</i> , 2010, 285, 25232-25242.	3.4	10
50	Decreased Transport Restores Growth of a <i>Salmonella enterica</i> apbC Mutant on Tricarballoylate. <i>Journal of Bacteriology</i> , 2012, 194, 576-583.	2.2	10
51	Investigating the role(s) of SufT and the domain of unknown function 59 (DUF59) in the maturation of iron-sulfur proteins. <i>Current Genetics</i> , 2018, 64, 9-16.	1.7	10
52	A Small-Molecule Modulator of Metal Homeostasis in Gram-Positive Pathogens. <i>MBio</i> , 2020, 11, .	4.1	8
53	Bayesian Modeling and Intrabacterial Drug Metabolism Applied to Drug-Resistant <i>Staphylococcus aureus</i> . <i>ACS Infectious Diseases</i> , 2021, 7, 2508-2521.	3.8	8
54	Expression and regulation of the mer operon in <i>Thermus thermophilus</i> . <i>Environmental Microbiology</i> , 2020, 22, 1619-1634.	3.8	7

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55	Crystallization and preliminary X-ray analysis of an acetone carboxylase from <i>Xanthobacter autotrophicus</i> strain Py2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 385-387.	2.5	6
56	Synthesis, Characterization, and Antimicrobial Investigation of a Novel Chlorhexidine Cyclamate Complex. <i>Crystal Growth and Design</i> , 2020, 20, 4991-4999.	3.0	6
57	Cetylpyridinium Trichlorostannate: Synthesis, Antimicrobial Properties, and Controlled-Release Properties via Electrical Resistance Tomography. <i>ACS Omega</i> , 2021, 6, 35433-35441.	3.5	5
58	Bacterial approaches to sensing and responding to respiration and respiration metabolites. <i>Molecular Microbiology</i> , 2021, 116, 1009-1021.	2.5	4
59	Involvement of the Cra Global Regulatory Protein in the Expression of the <i>iscRSUA</i> Operon, Revealed during Studies of Tricarballoylate Catabolism in <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , 2009, 191, 2069-2076.	2.2	3
60	Tools, Strains, and Strategies To Effectively Conduct Anaerobic and Aerobic Transcriptional Reporter Screens and Assays in <i>Staphylococcus aureus</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0110821.	3.1	2
61	Genetic Approaches to Uncover Gene Products Involved in Iron-Sulfur Protein Maturation: High-Throughput Genomic Screening Using Transposon Sequencing. <i>Methods in Molecular Biology</i> , 2021, 2353, 51-68.	0.9	0