

Kenneth W Bayles

List of Publications by Year in descending order

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92
papers

8,492
citations

61984

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48315

88
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95
docs citations

95
times ranked

8098
citing authors

#	ARTICLE	IF	CITATIONS
1	Simpler Procedure and Improved Performance for Pathogenic Bacteria Analysis with a Paper-Based Ratiometric Fluorescent Sensor Array. <i>Analytical Chemistry</i> , 2022, 94, 2615-2624.	6.5	20
2	The <i>Staphylococcus aureus</i> CidA and LrgA Proteins Are Functional Holins Involved in the Transport of By-Products of Carbohydrate Metabolism. <i>MBio</i> , 2022, 13, e0282721.	4.1	9
3	Insect cell expression and purification of recombinant SARS-CoV-2 spike proteins that demonstrate ACE2 binding. <i>Protein Science</i> , 2022, 31, e4300.	7.6	5
4	Interplay of CodY and CcpA in Regulating Central Metabolism and Biofilm Formation in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2022, 204, .	2.2	9
5	Bromelain inhibits SARS-CoV-2 infection via targeting ACE2, TMPRSS2, and spike protein. <i>Clinical and Translational Medicine</i> , 2021, 11, e281.	4.0	18
6	Integrative network analyses of transcriptomics data reveal potential drug targets for acute radiation syndrome. <i>Scientific Reports</i> , 2021, 11, 5585.	3.3	4
7	Inactivation of the Pta-AckA Pathway Impairs Fitness of <i>Bacillus anthracis</i> during Overflow Metabolism. <i>Journal of Bacteriology</i> , 2021, 203, .	2.2	4
8	Accumulation of Succinyl Coenzyme A Perturbs the Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) Succinylome and Is Associated with Increased Susceptibility to Beta-Lactam Antibiotics. <i>MBio</i> , 2021, 12, e0053021.	4.1	16
9	CyDisCo production of functional recombinant SARS-CoV-2 spike receptor binding domain. <i>Protein Science</i> , 2021, 30, 1983-1990.	7.6	16
10	<i>Staphylococcal</i> ClpXP protease targets the cellular antioxidant system to eliminate fitness-compromised cells in stationary phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	7
11	Abstract PO-037: Development of an RGD CRISPR-modified <i>Clostridium novyi</i> NT spores as an intravenous oncotherapy. , 2021, , .		0
12	The Evolution and Future of Targeted Cancer Therapy: From Nanoparticles, Oncolytic Viruses, and Oncolytic Bacteria to the Treatment of Solid Tumors. <i>Nanomaterials</i> , 2021, 11, 3018.	4.1	8
13	An integrated computational and experimental study to investigate <i>Staphylococcus aureus</i> metabolism. <i>Npj Systems Biology and Applications</i> , 2020, 6, 3.	3.0	12
14	Genetic and Biochemical Analysis of CodY-Mediated Cell Aggregation in <i>Staphylococcus aureus</i> Reveals an Interaction between Extracellular DNA and Polysaccharide in the Extracellular Matrix. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	26
15	Stochastic Expression of Sae-Dependent Virulence Genes during <i>Staphylococcus aureus</i> Biofilm Development Is Dependent on SaeS. <i>MBio</i> , 2020, 11, .	4.1	18
16	Identification and Quantification of Bacterial Pathogens with a Ratiometric Fluorescent Sensor Array. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1985-1985.	0.0	0
17	Observations of Shear Stress Effects on <i>Staphylococcus aureus</i> Biofilm Formation. <i>MSphere</i> , 2019, 4, .	2.9	12
18	CidR and CcpA Synergistically Regulate <i>Staphylococcus aureus</i> cidABC Expression. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	14

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19	Construction of a Sequence-Defined Transposon Mutant Library in <i>Staphylococcus aureus</i> . <i>Methods in Molecular Biology</i> , 2019, 2016, 29-37.	0.9	2
20	Identification of Extracellular DNA-Binding Proteins in the Biofilm Matrix. <i>MBio</i> , 2019, 10, .	4.1	108
21	Fluorescent Sensor Arrays Can Predict and Quantify the Composition of Multicomponent Bacterial Samples. <i>Frontiers in Chemistry</i> , 2019, 7, 916.	3.6	5
22	Ratiometric Fluorescent Sensor Array as a Versatile Tool for Bacterial Pathogen Identification and Analysis. <i>ACS Sensors</i> , 2018, 3, 700-708.	7.8	47
23	Nutritional Regulation of the Sae Two-Component System by CodY in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	31
24	Guanine Limitation Results in CodY-Dependent and -Independent Alteration of <i>Staphylococcus aureus</i> Physiology and Gene Expression. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	9
25	<i>Staphylococcus aureus</i> biofilm: a complex developmental organism. <i>Molecular Microbiology</i> , 2017, 104, 365-376.	2.5	343
26	Poly(γ -hydroxybutyrate) fuels the tricarboxylic acid cycle and <i>de novo</i> lipid biosynthesis during <i>Bacillus anthracis</i> sporulation. <i>Molecular Microbiology</i> , 2017, 104, 793-803.	2.5	12
27	<i>Staphylococcus aureus</i> CidC Is a Pyruvate:Menaquinone Oxidoreductase. <i>Biochemistry</i> , 2017, 56, 4819-4829.	2.5	14
28	Simple synthesis of endophenazine G and other phenazines and their evaluation as anti-methicillin-resistant <i>Staphylococcus aureus</i> agents. <i>European Journal of Medicinal Chemistry</i> , 2017, 125, 710-721.	5.5	19
29	The LysR-type transcriptional regulator, CidR, regulates stationary phase cell death in <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , 2016, 101, 942-953.	2.5	29
30	Resistance to Acute Macrophage Killing Promotes Airway Fitness of Prevalent Community-Acquired <i>Staphylococcus aureus</i> Strains. <i>Journal of Immunology</i> , 2016, 196, 4196-4203.	0.8	18
31	The major autolysin is redundant for <i>Staphylococcus aureus</i> USA300 LAC JE2 virulence in a murine device-related infection model. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw087.	1.8	15
32	Identification of inhibitors for single-stranded DNA-binding proteins in eubacteria. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 3432-3440.	3.0	23
33	SrrAB Modulates <i>Staphylococcus aureus</i> Cell Death through Regulation of <i>cidABC</i> Transcription. <i>Journal of Bacteriology</i> , 2016, 198, 1114-1122.	2.2	29
34	Potassium Uptake Modulates <i>Staphylococcus aureus</i> Metabolism. <i>MSphere</i> , 2016, 1, .	2.9	22
35	Redox Imbalance Underlies the Fitness Defect Associated with Inactivation of the Pta-AckA Pathway in <i>Staphylococcus aureus</i> . <i>Journal of Proteome Research</i> , 2016, 15, 1205-1212.	3.7	26
36	Effects of Low-Dose Amoxicillin on <i>Staphylococcus aureus</i> USA300 Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 2639-2651.	3.2	62

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37	Identification of the amino acids essential for <i>LytSR</i> -mediated signal transduction in <i>Staphylococcus aureus</i> and their roles in biofilm-specific gene expression. <i>Molecular Microbiology</i> , 2015, 95, 723-737.	2.5	33
38	<i>Staphylococcus aureus</i> Biofilms Induce Macrophage Dysfunction Through Leukocidin AB and Alpha-Toxin. <i>MBio</i> , 2015, 6, .	4.1	130
39	Electron Paramagnetic Resonance (EPR) Spectroscopy to Detect Reactive Oxygen Species in <i>Staphylococcus aureus</i> . <i>Bio-protocol</i> , 2015, 5, .	0.4	8
40	A Central Role for Carbon-Overflow Pathways in the Modulation of Bacterial Cell Death. <i>PLoS Pathogens</i> , 2014, 10, e1004205.	4.7	99
41	Allelic Exchange. <i>Methods in Molecular Biology</i> , 2014, 1373, 89-96.	0.9	11
42	Generation of a Transposon Mutant Library in <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> Using <i>bursa aurealis</i> . <i>Methods in Molecular Biology</i> , 2014, 1373, 103-110.	0.9	5
43	Temporal and Stochastic Control of <i>Staphylococcus aureus</i> Biofilm Development. <i>MBio</i> , 2014, 5, e01341-14.	4.1	140
44	Bacterial programmed cell death: making sense of a paradox. <i>Nature Reviews Microbiology</i> , 2014, 12, 63-69.	28.6	245
45	Methods to Generate a Sequence-Defined Transposon Mutant Library in <i>Staphylococcus epidermidis</i> Strain 1457. <i>Methods in Molecular Biology</i> , 2014, 1106, 135-142.	0.9	8
46	The Development of Dentotropic Micelles with Biodegradable Tooth-Binding Moieties. <i>Pharmaceutical Research</i> , 2013, 30, 2808-2817.	3.5	28
47	Programmed cell death in plants: lessons from bacteria?. <i>Trends in Plant Science</i> , 2013, 18, 133-139.	8.8	46
48	The <i>Ktr</i> potassium transport system in <i>Staphylococcus aureus</i> and its role in cell physiology, antimicrobial resistance and pathogenesis. <i>Molecular Microbiology</i> , 2013, 89, 760-773.	2.5	61
49	A Dysfunctional Tricarboxylic Acid Cycle Enhances Fitness of <i>Staphylococcus epidermidis</i> During β -Lactam Stress. <i>MBio</i> , 2013, 4, .	4.1	48
50	A Genetic Resource for Rapid and Comprehensive Phenotype Screening of Nonessential <i>Staphylococcus aureus</i> Genes. <i>MBio</i> , 2013, 4, e00537-12.	4.1	718
51	Role of the <i>LytSR</i> Two-Component Regulatory System in Adaptation to Cationic Antimicrobial Peptides in <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 3875-3882.	3.2	46
52	Inactivation of the Pta-AckA Pathway Causes Cell Death in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2013, 195, 3035-3044.	2.2	68
53	Use of Microfluidic Technology To Analyze Gene Expression during <i>Staphylococcus aureus</i> Biofilm Formation Reveals Distinct Physiological Niches. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3413-3424.	3.1	93
54	Genetic Tools To Enhance the Study of Gene Function and Regulation in <i>Staphylococcus aureus</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 2218-2224.	3.1	176

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55	CcpA Regulates Arginine Biosynthesis in <i>Staphylococcus aureus</i> through Repression of Proline Catabolism. <i>PLoS Pathogens</i> , 2012, 8, e1003033.	4.7	91
56	Contribution of the <i>Staphylococcus aureus</i> Atl AM and GL Murein Hydrolase Activities in Cell Division, Autolysis, and Biofilm Formation. <i>PLoS ONE</i> , 2012, 7, e42244.	2.5	166
57	The control of death and lysis in staphylococcal biofilms: a coordination of physiological signals. <i>Current Opinion in Microbiology</i> , 2012, 15, 211-215.	5.1	68
58	Nuclease Modulates Biofilm Formation in Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2011, 6, e26714.	2.5	210
59	<i>Staphylococcus aureus</i> Biofilms Prevent Macrophage Phagocytosis and Attenuate Inflammation In Vivo. <i>Journal of Immunology</i> , 2011, 186, 6585-6596.	0.8	563
60	Active Bax and Bak are functional holins. <i>Genes and Development</i> , 2011, 25, 2278-2290.	5.9	30
61	<i>Staphylococcus aureus</i> CidA and LrgA Proteins Exhibit Holin-Like Properties. <i>Journal of Bacteriology</i> , 2011, 193, 2468-2476.	2.2	121
62	Triclosan-Loaded Tooth-Binding Micelles for Prevention and Treatment of Dental Biofilm. <i>Pharmaceutical Research</i> , 2010, 27, 2356-2364.	3.5	50
63	The <i>Streptococcus mutans</i> Cid and Lrg systems modulate virulence traits in response to multiple environmental signals. <i>Microbiology (United Kingdom)</i> , 2010, 156, 3136-3147.	1.8	69
64	Beta toxin catalyzes formation of nucleoprotein matrix in staphylococcal biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14407-14412.	7.1	159
65	Assembly and Development of the <i>Pseudomonas aeruginosa</i> Biofilm Matrix. <i>PLoS Pathogens</i> , 2009, 5, e1000354.	4.7	515
66	Identification and characterization of a family of toxin-antitoxin systems related to the <i>Enterococcus faecalis</i> plasmid pAD1 par addiction module. <i>Microbiology (United Kingdom)</i> , 2009, 155, 2930-2940.	1.8	65
67	An Overlap between the Control of Programmed Cell Death in <i>Bacillus anthracis</i> and Sporulation. <i>Journal of Bacteriology</i> , 2009, 191, 4103-4110.	2.2	18
68	Tooth-Binding Micelles for Dental Caries Prevention. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 4898-4902.	3.2	40
69	The <i>Staphylococcus aureus</i> LytSR Two-Component Regulatory System Affects Biofilm Formation. <i>Journal of Bacteriology</i> , 2009, 191, 4767-4775.	2.2	112
70	Modulation of eDNA Release and Degradation Affects <i>Staphylococcus aureus</i> Biofilm Maturation. <i>PLoS ONE</i> , 2009, 4, e5822.	2.5	418
71	Molecular Control of Bacterial Death and Lysis. <i>Microbiology and Molecular Biology Reviews</i> , 2008, 72, 85-109.	6.6	314
72	The <i>cidA</i> murein hydrolase regulator contributes to DNA release and biofilm development in <i>Staphylococcus aureus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8113-8118.	7.1	607

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73	The biological role of death and lysis in biofilm development. <i>Nature Reviews Microbiology</i> , 2007, 5, 721-726.	28.6	296
74	The role of proton motive force in expression of the <i>Staphylococcus aureus</i> <i>cid</i> and <i>lrg</i> operons. <i>Molecular Microbiology</i> , 2006, 59, 1395-1404.	2.5	80
75	Characterization of the <i>Staphylococcus aureus</i> <i>CidR</i> regulon: elucidation of a novel role for acetoin metabolism in cell death and lysis. <i>Molecular Microbiology</i> , 2006, 60, 458-468.	2.5	72
76	Characterization of <i>CidR</i> -mediated regulation in <i>Bacillus anthracis</i> reveals a previously undetected role of S-layer proteins as murein hydrolases. <i>Molecular Microbiology</i> , 2006, 62, 1158-1169.	2.5	36
77	Searching for Smart Durable Coatings to Promote Bone Marrow Stromal Cell Growth While Preventing Biofilm Formation. <i>Materials Research Society Symposia Proceedings</i> , 2006, 954, 4.	0.1	4
78	Transcriptional profiling of a <i>Staphylococcus aureus</i> clinical isolate and its isogenic <i>agr</i> and <i>sarA</i> mutants reveals global differences in comparison to the laboratory strain RN6390. <i>Microbiology (United Kingdom)</i> , 2006, 152, 3075-3090.	1.8	146
79	The <i>Staphylococcus aureus</i> <i>cidC</i> gene encodes a pyruvate oxidase that affects acetate metabolism and cell death in stationary phase. <i>Molecular Microbiology</i> , 2005, 56, 1664-1674.	2.5	82
80	A LysR-Type Regulator, <i>CidR</i> , Is Required for Induction of the <i>Staphylococcus aureus</i> <i>cidABC</i> Operon. <i>Journal of Bacteriology</i> , 2005, 187, 5893-5900.	2.2	71
81	Acetic Acid Induces Expression of the <i>Staphylococcus aureus</i> <i>cidABC</i> and <i>IrgAB</i> Murein Hydrolase Regulator Operons. <i>Journal of Bacteriology</i> , 2005, 187, 813-821.	2.2	98
82	Transcription of the <i>Staphylococcus aureus</i> <i>cid</i> and <i>Irg</i> Murein Hydrolase Regulators Is Affected by Sigma Factor B. <i>Journal of Bacteriology</i> , 2004, 186, 3029-3037.	2.2	50
83	Death's toolbox: examining the molecular components of bacterial programmed cell death. <i>Molecular Microbiology</i> , 2003, 50, 729-738.	2.5	147
84	Are the molecular strategies that control apoptosis conserved in bacteria?. <i>Trends in Microbiology</i> , 2003, 11, 306-311.	7.7	85
85	The <i>Staphylococcus aureus</i> <i>cidAB</i> Operon: Evaluation of Its Role in Regulation of Murein Hydrolase Activity and Penicillin Tolerance. <i>Journal of Bacteriology</i> , 2003, 185, 2635-2643.	2.2	163
86	The <i>Staphylococcus aureus</i> <i>IrgAB</i> Operon Modulates Murein Hydrolase Activity and Penicillin Tolerance. <i>Journal of Bacteriology</i> , 2000, 182, 1794-1801.	2.2	231
87	Analysis of Genetic Elements Controlling <i>Staphylococcus aureus</i> <i>IrgAB</i> Expression: Potential Role of DNA Topology in <i>SarA</i> Regulation. <i>Journal of Bacteriology</i> , 2000, 182, 4822-4828.	2.2	35
88	The bactericidal action of penicillin: new clues to an unsolved mystery. <i>Trends in Microbiology</i> , 2000, 8, 274-278.	7.7	102
89	<i>Staphylococcal</i> Fibronectin Binding Protein Interacts with Heat Shock Protein 60 and Integrins: Role in Internalization by Epithelial Cells. <i>Infection and Immunity</i> , 2000, 68, 6321-6328.	2.2	11
90	<i>Staphylococcus aureus</i> <i>Agr</i> and <i>Sar</i> Global Regulators Influence Internalization and Induction of Apoptosis. <i>Infection and Immunity</i> , 1998, 66, 5238-5243.	2.2	138

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91	The Staphylococcus aureus scdA gene: a novel locus that affects cell division and morphogenesis. Microbiology (United Kingdom), 1997, 143, 2877-2882.	1.8	37
92	Two-Component Regulation. , 0, , 349-359.		0