George A O'toole

List of Publications by Year
in descending order

175 papers	31,835 citations	10956 71 h-index	6282 158 g-index
187 all docs	187 docs citations	187 times ranked	25933 citing authors

#	Article	IF	Citations
1	Mechanisms of biofilm resistance to antimicrobial agents. Trends in Microbiology, 2001, 9, 34-39.	3.5	3,142
2	Biofilm Formation as Microbial Development. Annual Review of Microbiology, 2000, 54, 49-79.	2.9	2,842
3	Microbial Biofilms: from Ecology to Molecular Genetics. Microbiology and Molecular Biology Reviews, 2000, 64, 847-867.	2.9	2,449
4	Flagellar and twitching motility are necessary forPseudomonas aeruginosabiofilm development. Molecular Microbiology, 1998, 30, 295-304.	1.2	2,399
5	Initiation of biofilm formation inPseudomonas fluorescensWCS365 proceeds via multiple, convergent signalling pathways: a genetic analysis. Molecular Microbiology, 1998, 28, 449-461.	1.2	2,233
6	Microtiter Dish Biofilm Formation Assay. Journal of Visualized Experiments, 2011, , .	0.2	1,259
7	A genetic basis for Pseudomonas aeruginosa biofilm antibiotic resistance. Nature, 2003, 426, 306-310.	13.7	1,036
8	[6] Genetic approaches to study of biofilms. Methods in Enzymology, 1999, 310, 91-109.	0.4	708
9	Rhamnolipid Surfactant Production Affects Biofilm Architecture in Pseudomonas aeruginosa PAO1. Journal of Bacteriology, 2003, 185, 1027-1036.	1.0	692
10	Growing and Analyzing Static Biofilms. , 2005, Chapter 1, Unit 1B.1.		667
11	Long-Distance Delivery of Bacterial Virulence Factors by Pseudomonas aeruginosa Outer Membrane Vesicles. PLoS Pathogens, 2009, 5, e1000382.	2.1	486
12	The developmental model of microbial biofilms: ten years of a paradigm up for review. Trends in Microbiology, 2009, 17, 73-87.	3.5	481
13	Transition from reversible to irreversible attachment during biofilm formation by Pseudomonas fluorescens WCS365 requires an ABC transporter and a large secreted protein. Molecular Microbiology, 2003, 49, 905-918.	1.2	438
14	Alginate is not a significant component of the extracellular polysaccharide matrix of PA14 and PAO1 Pseudomonas aeruginosa biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7907-7912.	3.3	395
15	Saccharomyces cerevisiae -Based Molecular Tool Kit for Manipulation of Genes from Gram-Negative Bacteria. Applied and Environmental Microbiology, 2006, 72, 5027-5036.	1.4	384
16	BifA, a Cyclic-Di-GMP Phosphodiesterase, Inversely Regulates Biofilm Formation and Swarming Motility by Pseudomonas aeruginosa PA14. Journal of Bacteriology, 2007, 189, 8165-8178.	1.0	350
17	The Global Carbon Metabolism Regulator Crc Is a Component of a Signal Transduction Pathway Required for Biofilm Development by Pseudomonas aeruginosa. Journal of Bacteriology, 2000, 182, 425-431.	1.0	282
18	LapD is a bis-(3â€²,5â€²)-cyclic dimeric GMP-binding protein that regulates surface attachment by <i>Pseudomonas fluorescens</i> Pf0â€"1. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3461-3466.	3.3	281

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19	Pseudomonas aeruginosa biofilm formation in the cystic fibrosis airway. Pulmonary Pharmacology and Therapeutics, 2008, 21, 595-599.	1.1	272
20	Coculture of Staphylococcus aureus with Pseudomonas aeruginosa Drives S. aureus towards Fermentative Metabolism and Reduced Viability in a Cystic Fibrosis Model. Journal of Bacteriology, 2015, 197, 2252-2264.	1.0	272
21	Inverse Regulation of Biofilm Formation and Swarming Motility by Pseudomonas aeruginosa PA14. Journal of Bacteriology, 2007, 189, 3603-3612.	1.0	255
22	c-di-GMP and its Effects on Biofilm Formation and Dispersion: a <i>Pseudomonas Aeruginosa</i> Review. Microbiology Spectrum, 2015, 3, MB-0003-2014.	1.2	252
23	The CRISPR/Cas Adaptive Immune System of Pseudomonas aeruginosa Mediates Resistance to Naturally Occurring and Engineered Phages. Journal of Bacteriology, 2012, 194, 5728-5738.	1.0	248
24	SadC Reciprocally Influences Biofilm Formation and Swarming Motility via Modulation of Exopolysaccharide Production and Flagellar Function. Journal of Bacteriology, 2007, 189, 8154-8164.	1.0	247
25	Interaction between Bacteriophage DMS3 and Host CRISPR Region Inhibits Group Behaviors of<i>Pseudomonas aeruginosa</i>. Journal of Bacteriology, 2009, 191, 210-219.	1.0	237
26	Second Messenger Regulation of Biofilm Formation: Breakthroughs in Understanding c-di-GMP Effector Systems. Annual Review of Cell and Developmental Biology, 2012, 28, 439-462.	4.0	216
27	A c-di-GMP Effector System Controls Cell Adhesion by Inside-Out Signaling and Surface Protein Cleavage. PLoS Biology, 2011, 9, e1000587.	2.6	212
28	Phosphate-dependent modulation of c-di-GMP levels regulates Pseudomonas fluorescens Pf0-1 biofilm formation by controlling secretion of the adhesin LapA. Molecular Microbiology, 2007, 63, 656-79.	1.2	199
29	Catheter lock solutions influence staphylococcal biofilm formation on abiotic surfaces. Nephrology Dialysis Transplantation, 2006, 21, 2247-2255.	0.4	191
30	SadB Is Required for the Transition from Reversible to Irreversible Attachment during Biofilm Formation by Pseudomonas aeruginosa PA14. Journal of Bacteriology, 2004, 186, 4476-4485.	1.0	190
31	Surface attachment induces <i>Pseudomonas aeruginosa</i> virulence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16860-16865.	3.3	187
32	A Three-Component Regulatory System Regulates Biofilm Maturation and Type III Secretion in Pseudomonas aeruginosa. Journal of Bacteriology, 2005, 187, 1441-1454.	1.0	184
33	A Hierarchical Cascade of Second Messengers Regulates Pseudomonas aeruginosa Surface Behaviors. MBio, 2015, 6, .	1.8	182
34	Susceptibility of Biofilms to Bdellovibrio bacteriovorus Attack. Applied and Environmental Microbiology, 2005, 71, 4044-4051.	1.4	180
35	Tobramycin and FDA-Approved Iron Chelators Eliminate <i>Pseudomonas aeruginosa</i> Biofilms on Cystic Fibrosis Cells. American Journal of Respiratory Cell and Molecular Biology, 2009, 41, 305-313.	1.4	172
36	Specific Control of Pseudomonas aeruginosa Surface-Associated Behaviors by Two c-di-GMP Diguanylate Cyclases. MBio, 2010, 1, .	1.8	165

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37	Cystic Fibrosis Lung Infections: Polymicrobial, Complex, and Hard to Treat. PLoS Pathogens, 2015, 11, e1005258.	2.1	165
38	In Vitro Analysis of Tobramycin-Treated <i>Pseudomonas aeruginosa</i> Biofilms on Cystic Fibrosis-Derived Airway Epithelial Cells. Infection and Immunity, 2008, 76, 1423-1433.	1.0	163
39	Growing and Analyzing Static Biofilms. Current Protocols in Microbiology, 2011, 22, 1B.1.1.	6.5	160
40	Evidence for Two Flagellar Stators and Their Role in the Motility of Pseudomonas aeruginosa. Journal of Bacteriology, 2005, 187, 771-777.	1.0	159
41	Sensational biofilms: surface sensing in bacteria. Current Opinion in Microbiology, 2016, 30, 139-146.	2.3	159
42	Structural Basis for c-di-GMP-Mediated Inside-Out Signaling Controlling Periplasmic Proteolysis. PLoS Biology, 2011, 9, e1000588.	2.6	159
43	The Î”F508-CFTR mutation results in increased biofilm formation by<i>Pseudomonas aeruginosa</i>by increasing iron availability. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L25-L37.	1.3	157
44	Surface-induced and biofilm-induced changes in gene expression. Current Opinion in Biotechnology, 2000, 11, 429-433.	3.3	143
45	Pseudomonas aeruginosarhamnolipids disperseBordetella bronchisepticabiofilms. FEMS Microbiology Letters, 2005, 250, 237-243.	0.7	142
46	Nanoscale Adhesion Forces of <i>Pseudomonas aeruginosa</i> Type IV Pili. ACS Nano, 2014, 8, 10723-10733.	7.3	141
47	Lung function and microbiota diversity in cystic fibrosis. Microbiome, 2020, 8, 45.	4.9	138
48	Non-Identity-Mediated CRISPR-Bacteriophage Interaction Mediated via the Csy and Cas3 Proteins. Journal of Bacteriology, 2011, 193, 3433-3445.	1.0	137
49	<i>Pseudomonas aeruginosa</i> Alters <i>Staphylococcus aureus</i> Sensitivity to Vancomycin in a Biofilm Model of Cystic Fibrosis Infection. MBio, 2017, 8, .	1.8	136
50	Cyclic-di-GMP-Mediated Repression of Swarming Motility by<i>Pseudomonas aeruginosa</i>: the<i>pilY1</i>Gene and Its Impact on Surface-Associated Behaviors. Journal of Bacteriology, 2010, 192, 2950-2964.	1.0	134
51	Candida albicans Ethanol Stimulates Pseudomonas aeruginosa WspR-Controlled Biofilm Formation as Part of a Cyclic Relationship Involving Phenazines. PLoS Pathogens, 2014, 10, e1004480.	2.1	132
52	Multigenerational memory and adaptive adhesion in early bacterial biofilm communities. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4471-4476.	3.3	132
53	Associations between Gut Microbial Colonization in Early Life and Respiratory Outcomes in Cystic Fibrosis. Journal of Pediatrics, 2015, 167, 138-147.e3.	0.9	131
54	Characterization and quantification of the fungal microbiome in serial samples from individuals with cystic fibrosis. Microbiome, 2014, 2, 40.	4.9	128

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55	Unique microbial communities persist in individual cystic fibrosis patients throughout a clinical exacerbation. Microbiome, 2013, 1, 27.	4.9	126
56	Conservation of the Pho regulon in Pseudomonas fluorescens Pf0-1. Applied and Environmental Microbiology, 2006, 72, 1910-1924.	1.4	124
57	<i>Pseudomonas aeruginosa</i> Alginate Overproduction Promotes Coexistence with <i>Staphylococcus aureus</i> in a Model of Cystic Fibrosis Respiratory Infection. MBio, 2017, 8, .	1.8	124
58	<i>Pseudomonas aeruginosa</i> Evasion of Phagocytosis Is Mediated by Loss of Swimming Motility and Is Independent of Flagellum Expression. Infection and Immunity, 2010, 78, 2937-2945.	1.0	121
59	Modulation of Pseudomonas aeruginosa surface-associated group behaviors by individual amino acids through c-di-GMP signaling. Research in Microbiology, 2011, 162, 680-688.	1.0	120
60	Plate-Based Assay for Swimming Motility in Pseudomonas aeruginosa. Methods in Molecular Biology, 2014, 1149, 59-65.	0.4	118
61	To Build a Biofilm. Journal of Bacteriology, 2003, 185, 2687-2689.	1.0	116
62	Systematic Analysis of Diguanylate Cyclases That Promote Biofilm Formation by Pseudomonas fluorescens Pf0-1. Journal of Bacteriology, 2011, 193, 4685-4698.	1.0	113
63	Roles for flagellar stators in biofilm formation by Pseudomonas aeruginosa. Research in Microbiology, 2007, 158, 471-477.	1.0	112
64	Biofilm formation by Pseudomonas fluorescens WCS365: a role for LapD. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	0.7	111
65	The Pseudomonas aeruginosa Secreted Protein PA2934 Decreases Apical Membrane Expression of the Cystic Fibrosis Transmembrane Conductance Regulator. Infection and Immunity, 2007, 75, 3902-3912.	1.0	107
66	â€œIt Takes a Villageâ€: Mechanisms Underlying Antimicrobial Recalcitrance of Polymicrobial Biofilms. Journal of Bacteriology, 2019, 202, .	1.0	107
67	Cyclic Di-GMP-Mediated Repression of Swarming Motility by Pseudomonas aeruginosa PA14 Requires the MotAB Stator. Journal of Bacteriology, 2015, 197, 420-430.	1.0	101
68	A Pseudomonas aeruginosa Toxin that Hijacks the Host Ubiquitin Proteolytic System. PLoS Pathogens, 2011, 7, e1001325.	2.1	96
69	PilZ Domain Protein FlgZ Mediates Cyclic Di-GMP-Dependent Swarming Motility Control in Pseudomonas aeruginosa. Journal of Bacteriology, 2016, 198, 1837-1846.	1.0	96
70	Deletion Mutant Library for Investigation of Functional Outputs of Cyclic Diguanylate Metabolism in Pseudomonas aeruginosa PA14. Applied and Environmental Microbiology, 2014, 80, 3384-3393.	1.4	89
71	Isolation and Characterization of a Generalized Transducing Phage for Pseudomonas aeruginosa Strains PAO1 and PA14. Journal of Bacteriology, 2004, 186, 3270-3273.	1.0	86
72	Structural Features of the Pseudomonas fluorescens Biofilm Adhesin LapA Required for LapG-Dependent Cleavage, Biofilm Formation, and Cell Surface Localization. Journal of Bacteriology, 2014, 196, 2775-2788.	1.0	83

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73	A Symphony of Cyclases: Specificity in Diguanylate Cyclase Signaling. Annual Review of Microbiology, 2017, 71, 179-195.	2.9	82
74	Plate-Based Assay for Swarming Motility in Pseudomonas aeruginosa. Methods in Molecular Biology, 2014, 1149, 67-72.	0.4	82
75	Aminoglycoside resistance of Pseudomonas aeruginosa biofilms modulated by extracellular polysaccharide. International Microbiology, 2010, 13, 207-12.	1.1	82
76	Genetic Evidence for an Alternative Citrate-Dependent Biofilm Formation Pathway in <i>Staphylococcus aureus</i> That Is Dependent on Fibronectin Binding Proteins and the GraRS Two-Component Regulatory System. Infection and Immunity, 2008, 76, 2469-2477.	1.0	70
77	Contribution of Physical Interactions to Signaling Specificity between a Diguanylate Cyclase and Its Effector. MBio, 2015, 6, e01978-15.	1.8	65
78	Pseudomonas aeruginosa Increases the Sensitivity of Biofilm-Grown Staphylococcus aureus to Membrane-Targeting Antiseptics and Antibiotics. MBio, 2019, 10, .	1.8	63
79	In vitro evaluation of tobramycin and aztreonam versus Pseudomonas aeruginosa biofilms on cystic fibrosis-derived human airway epithelial cells. Journal of Antimicrobial Chemotherapy, 2012, 67, 2673-2681.	1.3	60
80	LapG, Required for Modulating Biofilm Formation by Pseudomonasfluorescens Pf0-1, Is a Calcium-Dependent Protease. Journal of Bacteriology, 2012, 194, 4406-4414.	1.0	60
81	Single-Cell and Single-Molecule Analysis Deciphers the Localization, Adhesion, and Mechanics of the Biofilm Adhesin LapA. ACS Chemical Biology, 2014, 9, 485-494.	1.6	60
82	Altered Stool Microbiota of Infants with Cystic Fibrosis Shows a Reduction in Genera Associated with Immune Programming from Birth. Journal of Bacteriology, 2019, 201, .	1.0	60
83	Interspecies interactions induce exploratory motility in Pseudomonas aeruginosa. ELife, 2019, 8, .	2.8	56
84	Sugar fatty acid esters inhibit biofilm formation by food-borne pathogenic bacteria. International Journal of Food Microbiology, 2010, 138, 176-180.	2.1	55
85	Di-Adenosine Tetraphosphate (Ap4A) Metabolism Impacts Biofilm Formation by<i>Pseudomonas fluorescens</i>via Modulation of c-di-GMP-Dependent Pathways. Journal of Bacteriology, 2010, 192, 3011-3023.	1.0	55
86	A Multimodal Strategy Used by a Large c-di-GMP Network. Journal of Bacteriology, 2018, 200, .	1.0	52
87	Flagellar Stators Stimulate c-di-GMP Production by Pseudomonas aeruginosa. Journal of Bacteriology, 2019, 201, .	1.0	52
88	Atomic force and super-resolution microscopy support a role for LapA as a cell-surface biofilm adhesin of Pseudomonas fluorescens. Research in Microbiology, 2012, 163, 685-691.	1.0	50
89	Pouring Salt on a Wound: Pseudomonas aeruginosa Virulence Factors Alter Na+ and Cl- Flux in the Lung. Journal of Bacteriology, 2013, 195, 4013-4019.	1.0	50
90	Cystic Fibrosis Airway Microbiome: Overturning the Old, Opening the Way for the New. Journal of Bacteriology, 2018, 200, .	1.0	49

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91	Structural Characterization of a Conserved, Calcium-Dependent Periplasmic Protease from Legionella pneumophila. Journal of Bacteriology, 2012, 194, 4415-4425.	1.0	48
92	Clustered Regularly Interspaced Short Palindromic Repeat-Dependent, Biofilm-Specific Death of Pseudomonas aeruginosa Mediated by Increased Expression of Phage-Related Genes. MBio, 2015, 6, e00129-15.	1.8	48
93	Social Cooperativity of Bacteria during Reversible Surface Attachment in Young Biofilms: a Quantitative Comparison of Pseudomonas aeruginosa PA14 and PAO1. MBio, 2020, 11, .	1.8	47
94	The microbiome in pediatric cystic fibrosis patients: the role of shared environment suggests a window of intervention. Microbiome, 2014, 2, 14.	4.9	46
95	Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. Physical Biology, 2021, 18, 051501.	0.8	46
96	Bacterial Biofilms and Ocular Infections. Ocular Surface, 2005, 3, 73-80.	2.2	45
97	Diphosphonium Ionic Liquids as Broad-Spectrum Antimicrobial Agents. Cornea, 2012, 31, 810-816.	0.9	45
98	The Inhibitory Site of a Diguanylate Cyclase Is a Necessary Element for Interaction and Signaling with an Effector Protein. Journal of Bacteriology, 2016, 198, 1595-1603.	1.0	44
99	Cyclic Di-GMP-Regulated Periplasmic Proteolysis of a Pseudomonas aeruginosa Type Vb Secretion System Substrate. Journal of Bacteriology, 2016, 198, 66-76.	1.0	44
100	An N-Terminal Retention Module Anchors the Giant Adhesin LapA of Pseudomonas fluorescens at the Cell Surface: a Novel Subfamily of Type I Secretion Systems. Journal of Bacteriology, 2018, 200, .	1.0	44
101	Type 1 Does the Two-Step: Type 1 Secretion Substrates with a Functional Periplasmic Intermediate. Journal of Bacteriology, 2018, 200, .	1.0	44
102	The Gut-Lung Axis in Cystic Fibrosis. Journal of Bacteriology, 2021, 203, e0031121.	1.0	44
103	Bacteria, Rev Your Engines: Stator Dynamics Regulate Flagellar Motility. Journal of Bacteriology, 2017, 199, .	1.0	42
104	Exogenous Alginate Protects Staphylococcus aureus from Killing by Pseudomonas aeruginosa. Journal of Bacteriology, 2020, 202, .	1.0	42
105	Mechanistic insight into the conserved allosteric regulation of periplasmic proteolysis by the signaling molecule cyclic-di-GMP. ELife, 2014, 3, e03650.	2.8	41
106	All together now: Integrating biofilm research across disciplines. MRS Bulletin, 2011, 36, 339-342.	1.7	40
107	From Input to Output: The Lap/c-di-GMP Biofilm Regulatory Circuit. Annual Review of Microbiology, 2020, 74, 607-631.	2.9	39
108	Cif Is Negatively Regulated by the TetR Family Repressor CifR. Infection and Immunity, 2008, 76, 3197-3206.	1.0	37

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109	Cyanide Toxicity to Burkholderia cenocepacia Is Modulated by Polymicrobial Communities and Environmental Factors. Frontiers in Microbiology, 2016, 7, 725.	1.5	37
110	Ligand-Mediated Biofilm Formation via Enhanced Physical Interaction between a Diguanylate Cyclase and Its Receptor. MBio, 2018, 9, .	1.8	36
111	Role of Cyclic Di-GMP and Exopolysaccharide in Type IV Pilus Dynamics. Journal of Bacteriology, 2017, 199, .	1.0	32
112	An Antipersister Strategy for Treatment of Chronic Pseudomonas aeruginosa Infections. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	32
113	Single-Molecule Analysis of <i>Pseudomonas fluorescens</i> Footprints. ACS Nano, 2014, 8, 1690-1698.	7.3	31
114	Friendly Fire: Biological Functions and Consequences of Chromosomal Targeting by CRISPR-Cas Systems. Journal of Bacteriology, 2016, 198, 1481-1486.	1.0	31
115	The microbiota regulates susceptibility to Fas-mediated acute hepatic injury. Laboratory Investigation, 2014, 94, 938-949.	1.7	30
116	Metabolic Modeling of Cystic Fibrosis Airway Communities Predicts Mechanisms of Pathogen Dominance. MSystems, 2019, 4, .	1.7	30
117	Iron Homeostasis during Cystic Fibrosis Pulmonary Exacerbation. Clinical and Translational Science, 2012, 5, 368-373.	1.5	29
118	Tobramycin-Treated Pseudomonas aeruginosa PA14 Enhances Streptococcus constellatus 7155 Biofilm Formation in a Cystic Fibrosis Model System. Journal of Bacteriology, 2016, 198, 237-247.	1.0	29
119	Interaction between the type 4 pili machinery and a diguanylate cyclase fine-tune c-di-GMP levels during early biofilm formation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	29
120	Does the Î”F508-CFTR mutation induce a proinflammatory response in human airway epithelial cells?. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 303, L509-L518.	1.3	28
121	Iron supplementation does not worsen respiratory health or alter the sputum microbiome in cystic fibrosis. Journal of Cystic Fibrosis, 2014, 13, 311-318.	0.3	28
122	Flagellum-Mediated Biofilm Defense Mechanisms of <i>Pseudomonas aeruginosa</i> against Host-Derived Lactoferrin. Infection and Immunity, 2009, 77, 4559-4566.	1.0	27
123	Model Systems to Study the Chronic, Polymicrobial Infections in Cystic Fibrosis: Current Approaches and Exploring Future Directions. MBio, 2021, 12, e0176321.	1.8	26
124	Investigating the Link Between Imipenem Resistance and Biofilm Formation by Pseudomonas aeruginosa. Microbial Ecology, 2014, 68, 111-120.	1.4	25
125	Ethanol Decreases Pseudomonas aeruginosa Flagellar Motility through the Regulation of Flagellar Stators. Journal of Bacteriology, 2019, 201, .	1.0	25
126	<i>Pseudomonas aeruginosa</i> Uses c-di-GMP Phosphodiesterases RmcA and MorA To Regulate Biofilm Maintenance. MBio, 2021, 12, .	1.8	25

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127	Epoxide-Mediated Differential Packaging of Cif and Other Virulence Factors into Outer Membrane Vesicles. Journal of Bacteriology, 2014, 196, 3633-3642.	1.0	24
128	The Yin and Yang of <i>Streptococcus</i> Lung Infections in Cystic Fibrosis: a Model for Studying Polymicrobial Interactions. Journal of Bacteriology, 2019, 201, .	1.0	24
129	High-Speed â€œ4Dâ€•Computational Microscopy of Bacterial Surface Motility. ACS Nano, 2017, 11, 9340-9351.	7.3	23
130	Age and environmental exposures influence the fecal bacteriome of young children with cystic fibrosis. Pediatric Pulmonology, 2020, 55, 1661-1670.	1.0	22
131	Architecture of cellâ€"cell junctions in situ reveals a mechanism for bacterial biofilm inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	22
132	Rapid expansion and extinction of antibiotic resistance mutations during treatment of acute bacterial respiratory infections. Nature Communications, 2022, 13, 1231.	5.8	22
133	Pseudomonas aeruginosa PA14 Enhances the Efficacy of Norfloxacin against Staphylococcus aureus Newman Biofilms. Journal of Bacteriology, 2020, 202, .	1.0	20
134	Requirements for Pseudomonas aeruginosa Type I-F CRISPR-Cas Adaptation Determined Using a Biofilm Enrichment Assay. Journal of Bacteriology, 2016, 198, 3080-3090.	1.0	19
135	Classic Spotlight: How the Gram Stain Works. Journal of Bacteriology, 2016, 198, 3128-3128.	1.0	18
136	MapA, a Second Large RTX Adhesin Conserved across the Pseudomonads, Contributes to Biofilm Formation by Pseudomonas fluorescens. Journal of Bacteriology, 2020, 202, .	1.0	18
137	Metabolites as Intercellular Signals for Regulation of Community-Level Traits. , 0, , 105-129.		18
138	Glycocluster Tetrahydroxamic Acids Exhibiting Unprecedented Inhibition of <i>Pseudomonas aeruginosa</i> Biofilms. Journal of Medicinal Chemistry, 2019, 62, 7722-7738.	2.9	17
139	Epoxide-Mediated CifR Repression of <i>cif</i> Gene Expression Utilizes Two Binding Sites in Pseudomonas aeruginosa. Journal of Bacteriology, 2012, 194, 5315-5324.	1.0	16
140	Mannitol Does Not Enhance Tobramycin Killing of Pseudomonas aeruginosa in a Cystic Fibrosis Model System of Biofilm Formation. PLoS ONE, 2015, 10, e0141192.	1.1	16
141	Pseudomonas aeruginosa Can Inhibit Growth of Streptococcal Species via Siderophore Production. Journal of Bacteriology, 2019, 201, .	1.0	15
142	Force-Induced Changes of PilY1 Drive Surface Sensing by Pseudomonas aeruginosa. MBio, 2022, 13, e0375421.	1.8	15
143	c-di-GMP and its Effects on Biofilm Formation and Dispersion: a<i>Pseudomonas Aeruginosa</i>Review. , 0, , 301-317.		13
144	Classic Spotlight: Plate Counting You Can Count On. Journal of Bacteriology, 2016, 198, 3127-3127.	1.0	13

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145	How Pseudomonas aeruginosa Regulates Surface Behaviors. Microbe Magazine, 2008, 3, 65-71.	0.4	13
146	Biofilm Maintenance as an Active Process: Evidence that Biofilms Work Hard to Stay Put. Journal of Bacteriology, 2022, 204, e0058721.	1.0	13
147	Availability of Zinc Impacts Interactions between Streptococcus sanguinis and Pseudomonas aeruginosa in Coculture. Journal of Bacteriology, 2020, 202, .	1.0	12
148	One versus Many: Polymicrobial Communities and the Cystic Fibrosis Airway. MBio, 2021, 12, .	1.8	11
149	Mild Cystic Fibrosis Lung Disease Is Associated with Bacterial Community Stability. Microbiology Spectrum, 2021, 9, e0002921.	1.2	10
150	Co-opting the Lap System of <i>Pseudomonas fluorescens</i> To Reversibly Customize Bacterial Cell Surfaces. ACS Synthetic Biology, 2018, 7, 2612-2617.	1.9	8
151	The Diguanylate Cyclase YfiN of Pseudomonas aeruginosa Regulates Biofilm Maintenance in Response to Peroxide. Journal of Bacteriology, 2022, 204, JB0039621.	1.0	8
152	Gross transcriptomic analysis of Pseudomonas putida for diagnosing environmental shifts. Microbial Biotechnology, 2020, 13, 263-273.	2.0	7
153	Metabolic Modeling to Interrogate Microbial Disease: A Tale for Experimentalists. Frontiers in Molecular Biosciences, 2021, 8, 634479.	1.6	7
154	Differential Surface Competition and Biofilm Invasion Strategies of Pseudomonas aeruginosa PA14 and PAO1. Journal of Bacteriology, 2021, 203, e0026521.	1.0	7
155	Classic Spotlight: Quorum Sensing and the Multicellular Life of Unicellular Organisms. Journal of Bacteriology, 2016, 198, 601-601.	1.0	6
156	Bordetella bronchiseptica Diguanylate Cyclase BdcA Regulates Motility and Is Important for the Establishment of Respiratory Infection in Mice. Journal of Bacteriology, 2019, 201, .	1.0	6
157	Lying in Wait: Modeling the Control of Bacterial Infections via Antibiotic-Induced Proviruses. MSystems, 2019, 4, .	1.7	5
158	Nonmotile Subpopulations of <i>Pseudomonas aeruginosa</i> Repress Flagellar Motility in Motile Cells through a Type IV Pilus- and Pel-Dependent Mechanism. Journal of Bacteriology, 2022, 204, e0052821.	1.0	5
159	Broadcasting of amplitude- and frequency-modulated c-di-GMP signals facilitates cooperative surface commitment in bacterial lineages. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	4
160	Classic Spotlight: Bacteroides thetaiotaomicron, Starch Utilization, and the Birth of the Microbiome Era. Journal of Bacteriology, 2016, 198, 2763-2763.	1.0	3
161	Classic Spotlight: Before They Were Biofilms. Journal of Bacteriology, 2016, 198, 5-5.	1.0	3
162	Environmental Control of Cyclic Di-GMP Signaling in Pseudomonas fluorescens: from Signal to Output. , 2014, , 282-290.		1

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163	2021 Jack Kenney Award for Outstanding Service. Journal of Bacteriology, 2022, 204, e0052321.	1.0	1
164	Classic Spotlight: Cyclic Di-GMP, the Molecule That Makes the Bacterial World Stop Going â€²Round. Journal of Bacteriology, 2016, 198, 1553-1553.	1.0	0
165	Special Meeting Sections for the 7th ASM Conference on Biofilms. Journal of Bacteriology, 2016, 198, 2551-2551.	1.0	0
166	Special Meeting Sections. Journal of Bacteriology, 2016, 198, i.	1.0	0
167	Special Meeting Sections for the 6th ASM Conference on Beneficial Microbes. Journal of Bacteriology, 2017, 199, .	1.0	0
168	Special Meeting Sections for the ASM Conference on Mechanisms of Interbacterial Cooperation and Competition. Journal of Bacteriology, 2017, 199, .	1.0	0
169	Special Sections for the 6th ASM Conference on Cell-Cell Communication in Bacteria. Journal of Bacteriology, 2018, 200, .	1.0	0
170	Special Meeting Issue for the 8th ASM Conference on Biofilms. Journal of Bacteriology, 2019, 201, .	1.0	0
171	Pseudomonas aeruginosa toxin reduces MHC class I antigen presentation. FASEB Journal, 2008, 22, 860.9.	0.2	0
172	Pseudomonas aeruginosa toxin (Cif) induces lysosomal degradation of CFTR. FASEB Journal, 2009, 23, 998.17.	0.2	0
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