

Jeremy S Webb

List of Publications by Year in descending order

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74
papers

7,957
citations

81900

39
h-index

76900

74
g-index

79
all docs

79
docs citations

79
times ranked

8472
citing authors

#	ARTICLE	IF	CITATIONS
1	A characterization of DNA release in <i>Pseudomonas aeruginosa</i> cultures and biofilms. <i>Molecular Microbiology</i> , 2006, 59, 1114-1128.	2.5	851
2	Involvement of Nitric Oxide in Biofilm Dispersal of <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2006, 188, 7344-7353.	2.2	666
3	Enhanced Biofilm Formation and Increased Resistance to Antimicrobial Agents and Bacterial Invasion Are Caused by Synergistic Interactions in Multispecies Biofilms. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3916-3923.	3.1	572
4	Cell Death in <i>Pseudomonas aeruginosa</i> Biofilm Development. <i>Journal of Bacteriology</i> , 2003, 185, 4585-4592.	2.2	526
5	Nitric Oxide Signaling in <i>Pseudomonas aeruginosa</i> Biofilms Mediates Phosphodiesterase Activity, Decreased Cyclic Di-GMP Levels, and Enhanced Dispersal. <i>Journal of Bacteriology</i> , 2009, 191, 7333-7342.	2.2	432
6	The biofilm life cycle and virulence of <i>Pseudomonas aeruginosa</i> are dependent on a filamentous prophage. <i>ISME Journal</i> , 2009, 3, 271-282.	9.8	296
7	Bacterial biofilms: prokaryotic adventures in multicellularity. <i>Current Opinion in Microbiology</i> , 2003, 6, 578-585.	5.1	251
8	Competitive Interactions in Mixed-Species Biofilms Containing the Marine Bacterium <i>Pseudoalteromonas tunicata</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 1729-1736.	3.1	251
9	Bacteriophage and Phenotypic Variation in <i>Pseudomonas aeruginosa</i> Biofilm Development. <i>Journal of Bacteriology</i> , 2004, 186, 8066-8073.	2.2	245
10	Nitric oxide-mediated dispersal in single- and multi-species biofilms of clinically and industrially relevant microorganisms. <i>Microbial Biotechnology</i> , 2009, 2, 370-378.	4.2	240
11	Marine Biofilm Bacteria Evade Eukaryotic Predation by Targeted Chemical Defense. <i>PLoS ONE</i> , 2008, 3, e2744.	2.5	176
12	<i>Pseudomonas aeruginosa</i> PAO1 Preferentially Grows as Aggregates in Liquid Batch Cultures and Disperses upon Starvation. <i>PLoS ONE</i> , 2009, 4, e5513.	2.5	175
13	Fungal Colonization and Biodeterioration of Plasticized Polyvinyl Chloride. <i>Applied and Environmental Microbiology</i> , 2000, 66, 3194-3200.	3.1	164
14	An improved bind-n-seq strategy to determine protein-DNA interactions validated using the bacterial transcriptional regulator YipR. <i>BMC Microbiology</i> , 2020, 20, 1.	3.3	162
15	Low Densities of Epiphytic Bacteria from the Marine Alga <i>Ulva australis</i> Inhibit Settlement of Fouling Organisms. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7844-7852.	3.1	152
16	Low-Dose Nitric Oxide as Targeted Anti-biofilm Adjunctive Therapy to Treat Chronic <i>Pseudomonas aeruginosa</i> Infection in Cystic Fibrosis. <i>Molecular Therapy</i> , 2017, 25, 2104-2116.	8.2	149
17	Cephalosporin-diazoniumdiolates: Targeted NO-Donor Prodrugs for Dispersing Bacterial Biofilms. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9057-9060.	13.8	137
18	The role of polyhydroxyalkanoate biosynthesis by <i>Pseudomonas aeruginosa</i> in rhamnolipid and alginate production as well as stress tolerance and biofilm formation. <i>Microbiology (United Kingdom)</i> , 2006, 150, 57-65.	10.6	135

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19	Biofilm Development and Cell Death in the Marine Bacterium <i>Pseudoalteromonas tunicata</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 3232-3238.	3.1	120
20	Hydrogen Peroxide Linked to Lysine Oxidase Activity Facilitates Biofilm Differentiation and Dispersal in Several Gram-Negative Bacteria. <i>Journal of Bacteriology</i> , 2008, 190, 5493-5501.	2.2	119
21	<i>Pseudomonas aeruginosa</i> infection in cystic fibrosis: pathophysiological mechanisms and therapeutic approaches. <i>Expert Review of Respiratory Medicine</i> , 2016, 10, 685-697.	2.5	114
22	Microbial Colonization and Competition on the Marine Alga <i>Ulva australis</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 5547-5555.	3.1	110
23	Role of Mutation in <i>Pseudomonas aeruginosa</i> Biofilm Development. <i>PLoS ONE</i> , 2009, 4, e6289.	2.5	99
24	Biofilm differentiation and dispersal in mucoid <i>Pseudomonas aeruginosa</i> isolates from patients with cystic fibrosis. <i>Microbiology (United Kingdom)</i> , 2007, 153, 3264-3274.	1.8	96
25	Proteomic, Microarray, and Signature-Tagged Mutagenesis Analyses of Anaerobic <i>Pseudomonas aeruginosa</i> at pH 6.5, Likely Representing Chronic, Late-Stage Cystic Fibrosis Airway Conditions. <i>Journal of Bacteriology</i> , 2008, 190, 2739-2758.	2.2	86
26	Economic significance of biofilms: a multidisciplinary and cross-sectoral challenge. <i>Npj Biofilms and Microbiomes</i> , 2022, 8, .	6.4	86
27	The alternative sigma factor RpoN regulates the quorum sensing gene <i>hlln</i> in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 2003, 220, 187-195.	1.8	85
28	Current and future therapies for <i>Pseudomonas aeruginosa</i> infection in patients with cystic fibrosis. <i>FEMS Microbiology Letters</i> , 2017, 364, .	1.8	85
29	Enhanced Benzaldehyde Tolerance in <i>Zymomonas mobilis</i> Biofilms and the Potential of Biofilm Applications in Fine-Chemical Production. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1639-1644.	3.1	82
30	Strain-specific parallel evolution drives short-term diversification during <i>Pseudomonas aeruginosa</i> biofilm formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1419-27.	7.1	81
31	Expression of the <i>psl</i> Operon in <i>Pseudomonas aeruginosa</i> PAO1 Biofilms: <i>PslA</i> Performs an Essential Function in Biofilm Formation. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4407-4413.	3.1	78
32	Ecological Advantages of Autolysis during the Development and Dispersal of <i>Pseudoalteromonas tunicata</i> Biofilms. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5414-5420.	3.1	77
33	Plasticizers Increase Adhesion of the Deteriogenic Fungus <i>Aureobasidium pullulans</i> to Polyvinyl Chloride. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3575-3581.	3.1	68
34	Ultrasound-mediated therapies for the treatment of biofilms in chronic wounds: a review of present knowledge. <i>Microbial Biotechnology</i> , 2020, 13, 613-628.	4.2	53
35	Transcriptome analyses and biofilm-forming characteristics of a clonal <i>Pseudomonas aeruginosa</i> from the cystic fibrosis lung. <i>Journal of Medical Microbiology</i> , 2008, 57, 1454-1465.	1.8	50
36	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. <i>Biofilm</i> , 2020, 2, 100010.	3.8	50

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37	Dynamic modelling of cell death during biofilm development. <i>Journal of Theoretical Biology</i> , 2012, 295, 23-36.	1.7	48
38	Removal of Dental Biofilms with an Ultrasonically Activated Water Stream. <i>Journal of Dental Research</i> , 2015, 94, 1303-1309.	5.2	43
39	Pronounced Metabolic Changes in Adaptation to Biofilm Growth by <i>Streptococcus pneumoniae</i> . <i>PLoS ONE</i> , 2014, 9, e107015.	2.5	42
40	Gene expression characteristics of a cystic fibrosis epidemic strain of <i>Pseudomonas aeruginosa</i> during biofilm and planktonic growth. <i>FEMS Microbiology Letters</i> , 2009, 292, 107-114.	1.8	40
41	Green Fluorescent Protein as a Novel Indicator of Antimicrobial Susceptibility in <i>Aureobasidium pullulans</i> . <i>Applied and Environmental Microbiology</i> , 2001, 67, 5614-5620.	3.1	39
42	Intracellular residency of <i>Staphylococcus aureus</i> within mast cells in nasal polyps: A novel observation. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 1648-1651.e5.	2.9	39
43	Rhizosphere Bacterial Communities Differ According to Fertilizer Regimes and Cabbage (Brassica) Tj ETQq1 1 0.784314 rgBT /Overl 1620.	3.5	38
44	Cephalosporin nitric oxide-donor prodrug DEA-C3D disperses biofilms formed by clinical cystic fibrosis isolates of <i>Pseudomonas aeruginosa</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 117-125.	3.0	35
45	Correlation of ultrasound bladder vibrometry assessment of bladder compliance with urodynamic study results. <i>PLoS ONE</i> , 2017, 12, e0179598.	2.5	32
46	A mannose-sensitive haemagglutinin (MSHA)-like pilus promotes attachment of <i>Pseudoalteromonas tunicata</i> cells to the surface of the green alga <i>Ulva australis</i> . <i>Microbiology (United Kingdom)</i> , 2006, 152, 2875-2883.	1.8	31
47	An integrated model system to gain mechanistic insights into biofilm-associated antimicrobial resistance in <i>Pseudomonas aeruginosa</i> MPAO1. <i>Npj Biofilms and Microbiomes</i> , 2020, 6, 46.	6.4	31
48	Optimization of nitric oxide donors for investigating biofilm dispersal response in <i>Pseudomonas aeruginosa</i> clinical isolates. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8859-8869.	3.6	29
49	Biofilm dispersal cells of a cystic fibrosis <i>Pseudomonas aeruginosa</i> isolate exhibit variability in functional traits likely to contribute to persistent infection. <i>FEMS Immunology and Medical Microbiology</i> , 2012, 66, 251-264.	2.7	27
50	Low Concentrations of Nitric Oxide Modulate <i>Streptococcus pneumoniae</i> Biofilm Metabolism and Antibiotic Tolerance. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 2456-2466.	3.2	27
51	Risk of Red Queen dynamics in pneumococcal vaccine strategy. <i>Trends in Microbiology</i> , 2011, 19, 377-381.	7.7	26
52	Cephalosporin-3- β -Diazoniumdiolate NO Donor Prodrug PYRRO-C3D Enhances Azithromycin Susceptibility of Nontypeable <i>Haemophilus influenzae</i> Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	26
53	Differential impact on motility and biofilm dispersal of closely related phosphodiesterases in <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2020, 10, 6232.	3.3	26
54	Ability of <i>Pseudoalteromonas tunicata</i> to colonize natural biofilms and its effect on microbial community structure. <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	2.7	24

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55	Cephalosporin-NO-donor prodrug PYRRO-C3D shows β -lactam - mediated activity against <i>Streptococcus pneumoniae</i> biofilms. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 65, 43-49.	2.7	21
56	Dimerisation induced formation of the active site and the identification of three metal sites in EAL-phosphodiesterases. <i>Scientific Reports</i> , 2017, 7, 42166.	3.3	20
57	Can Simpson's paradox explain co-operation in <i>Pseudomonas aeruginosa</i> biofilms?. <i>FEMS Immunology and Medical Microbiology</i> , 2012, 65, 226-235.	2.7	19
58	Prevention of <i>Propionibacterium acnes</i> biofilm formation in prosthetic infections in vitro. <i>Journal of Shoulder and Elbow Surgery</i> , 2017, 26, 553-563.	2.6	19
59	Discovery of Cephalosporin-3 β -Diazeniumdiolates That Show Dual Antibacterial and Antibiofilm Effects against <i>Pseudomonas aeruginosa</i> Clinical Cystic Fibrosis Isolates and Efficacy in a Murine Respiratory Infection Model. <i>ACS Infectious Diseases</i> , 2020, 6, 1460-1479.	3.8	18
60	Role of the flagellar hook in the structural development and antibiotic tolerance of <i>Pseudomonas aeruginosa</i> biofilms. <i>ISME Journal</i> , 2022, 16, 1176-1186.	9.8	18
61	Multi-Excitation Raman Spectroscopy for Label-Free, Strain-Level Characterization of Bacterial Pathogens in Artificial Sputum Media. <i>Analytical Chemistry</i> , 2022, 94, 669-677.	6.5	13
62	Acoustoelasticity Analysis of Transient Waves for Non-Invasive In Vivo Assessment of Urinary Bladder. <i>Scientific Reports</i> , 2019, 9, 2441.	3.3	10
63	A novel application of Gini coefficient for the quantitative measurement of bacterial aggregation. <i>Scientific Reports</i> , 2019, 9, 19002.	3.3	9
64	Influence of surfaces on sulphidogenic bacteria. <i>Biofouling</i> , 1996, 10, 95-109.	2.2	8
65	Parallel Evolution in <i>Streptococcus pneumoniae</i> Biofilms. <i>Genome Biology and Evolution</i> , 2016, 8, 1316-1326.	2.5	8
66	Comparative Genomics of Carriage and Disease Isolates of <i>Streptococcus pneumoniae</i> Serotype 22F Reveals Lineage-Specific Divergence and Niche Adaptation. <i>Genome Biology and Evolution</i> , 2016, 8, 1243-1251.	2.5	8
67	Down-Regulation of DNA Mismatch Repair Enhances Initiation and Growth of Neuroblastoma and Brain Tumour Multicellular Spheroids. <i>PLoS ONE</i> , 2011, 6, e28123.	2.5	7
68	Evaluation of a Bioengineered Honey and Its Synthetic Equivalent as Novel <i>Staphylococcus aureus</i> Biofilm-Targeted Topical Therapies in Chronic Rhinosinusitis. <i>American Journal of Rhinology and Allergy</i> , 2020, 34, 80-86.	2.0	6
69	An in vitro biofilm model system to facilitate study of microbial communities of the human oral cavity. <i>Letters in Applied Microbiology</i> , 2022, 74, 302-310.	2.2	6
70	Pulsed vibro-acoustic method for assessment of osteoporosis & osteopenia: A feasibility study on human subjects. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 97, 187-197.	3.1	5
71	Microbial epidemiology and carriage studies for the evaluation of vaccines. <i>Journal of Medical Microbiology</i> , 2019, 68, 1408-1418.	1.8	4
72	Phylogenetic Analysis with Prediction of Cofactor or Ligand Binding for <i>Pseudomonas aeruginosa</i> PAS and Cache Domains. <i>Microbiology Spectrum</i> , 2021, 9, e0102621.	3.0	4

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73	Diagnosis and treatment of biofilm infections in children. <i>Current Opinion in Infectious Diseases</i> , 2019, 32, 505-509.	3.1	2
74	Structure and Regulation of EAL Domain Proteins. , 2020, , 27-48.		0