

Matthew R Parsek

List of Publications by Year in descending order

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136
papers

29,402
citations

9786

73
h-index

15732

125
g-index

177
all docs

177
docs citations

177
times ranked

21423
citing authors

#	ARTICLE	IF	CITATIONS
1	The Involvement of Cell-to-Cell Signals in the Development of a Bacterial Biofilm. <i>Science</i> , 1998, 280, 295-298.	12.6	3,019
2	Bacterial competition: surviving and thriving in the microbial jungle. <i>Nature Reviews Microbiology</i> , 2010, 8, 15-25.	28.6	2,085
3	Quorum-sensing signals indicate that cystic fibrosis lungs are infected with bacterial biofilms. <i>Nature</i> , 2000, 407, 762-764.	27.8	1,372
4	Bacterial Biofilms: An Emerging Link to Disease Pathogenesis. <i>Annual Review of Microbiology</i> , 2003, 57, 677-701.	7.3	1,362
5	Regulation of Gene Expression by Cell-to-Cell Communication: Acyl-Homoserine Lactone Quorum Sensing. <i>Annual Review of Genetics</i> , 2001, 35, 439-468.	7.6	1,251
6	Gene expression in <i>Pseudomonas aeruginosa</i> biofilms. <i>Nature</i> , 2001, 413, 860-864.	27.8	1,037
7	Sociomicrobiology: the connections between quorum sensing and biofilms. <i>Trends in Microbiology</i> , 2005, 13, 27-33.	7.7	991
8	A component of innate immunity prevents bacterial biofilm development. <i>Nature</i> , 2002, 417, 552-555.	27.8	923
9	Inhibition of quorum sensing in <i>Pseudomonas aeruginosa</i> biofilm bacteria by a halogenated furanone compound. <i>Microbiology (United Kingdom)</i> , 2002, 148, 87-102.	1.8	919
10	Heavy Metal Resistance of Biofilm and Planktonic <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2003, 69, 2313-2320.	3.1	598
11	Alginate Overproduction Affects <i>Pseudomonas aeruginosa</i> Biofilm Structure and Function. <i>Journal of Bacteriology</i> , 2001, 183, 5395-5401.	2.2	584
12	<i>Pseudomonas aeruginosa</i> Anaerobic Respiration in Biofilms. <i>Developmental Cell</i> , 2002, 3, 593-603.	7.0	528
13	Assembly and Development of the <i>Pseudomonas aeruginosa</i> Biofilm Matrix. <i>PLoS Pathogens</i> , 2009, 5, e1000354.	4.7	515
14	The impact of quorum sensing and swarming motility on <i>Pseudomonas aeruginosa</i> biofilm formation is nutritionally conditional. <i>Molecular Microbiology</i> , 2006, 62, 1264-1277.	2.5	498
15	Pel is a cationic exopolysaccharide that cross-links extracellular DNA in the <i>Pseudomonas aeruginosa</i> biofilm matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11353-11358.	7.1	485
16	<i>Pseudomonas aeruginosa</i> uses a cyclic c-di-GMP-regulated adhesin to reinforce the biofilm extracellular matrix. <i>Molecular Microbiology</i> , 2010, 75, 827-842.	2.5	450
17	The Pel and Psl polysaccharides provide <i>Pseudomonas aeruginosa</i> structural redundancy within the biofilm matrix. <i>Environmental Microbiology</i> , 2012, 14, 1913-1928.	3.8	447
18	The Exopolysaccharide Alginate Protects <i>Pseudomonas aeruginosa</i> Biofilm Bacteria from IFN- γ -Mediated Macrophage Killing. <i>Journal of Immunology</i> , 2005, 175, 7512-7518.	0.8	441

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19	The Pel Polysaccharide Can Serve a Structural and Protective Role in the Biofilm Matrix of <i>Pseudomonas aeruginosa</i> . <i>PLoS Pathogens</i> , 2011, 7, e1001264.	4.7	428
20	Alginate is not a significant component of the extracellular polysaccharide matrix of PA14 and PAO1 <i>Pseudomonas aeruginosa</i> biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7907-7912.	7.1	395
21	Precision-engineering the <i>Pseudomonas aeruginosa</i> genome with two-step allelic exchange. <i>Nature Protocols</i> , 2015, 10, 1820-1841.	12.0	381
22	Identification of <i>psl</i> , a Locus Encoding a Potential Exopolysaccharide That Is Essential for <i>Pseudomonas aeruginosa</i> PAO1 Biofilm Formation. <i>Journal of Bacteriology</i> , 2004, 186, 4466-4475.	2.2	372
23	<i>Pseudomonas aeruginosa</i> Rugose Small-Colony Variants Have Adaptations That Likely Promote Persistence in the Cystic Fibrosis Lung. <i>Journal of Bacteriology</i> , 2009, 191, 3492-3503.	2.2	372
24	The extracellular matrix protects <i>Pseudomonas aeruginosa</i> biofilms by limiting the penetration of tobramycin. <i>Environmental Microbiology</i> , 2013, 15, 2865-2878.	3.8	357
25	Analysis of <i>Pseudomonas aeruginosa</i> Conditional Psl Variants Reveals Roles for the Psl Polysaccharide in Adhesion and Maintaining Biofilm Structure Postattachment. <i>Journal of Bacteriology</i> , 2006, 188, 8213-8221.	2.2	349
26	Genetic and biochemical analyses of the <i>Pseudomonas aeruginosa</i> Psl exopolysaccharide reveal overlapping roles for polysaccharide synthesis enzymes in Psl and LPS production. <i>Molecular Microbiology</i> , 2009, 73, 622-638.	2.5	326
27	Psl trails guide exploration and microcolony formation in <i>Pseudomonas aeruginosa</i> biofilms. <i>Nature</i> , 2013, 497, 388-391.	27.8	308
28	Survival and Growth in the Presence of Elevated Copper: Transcriptional Profiling of Copper-Stressed <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2006, 188, 7242-7256.	2.2	270
29	Self-produced exopolysaccharide is a signal that stimulates biofilm formation in <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20632-20636.	7.1	265
30	Statistical Analysis of <i>Pseudomonas aeruginosa</i> Biofilm Development: Impact of Mutations in Genes Involved in Twitching Motility, Cell-to-Cell Signaling, and Stationary-Phase Sigma Factor Expression. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2008-2017.	3.1	259
31	<i>Pseudomonas aeruginosa</i> biofilm matrix polysaccharide Psl is regulated transcriptionally by RpoS and posttranscriptionally by RsmA. <i>Molecular Microbiology</i> , 2010, 78, 158-172.	2.5	252
32	Characterization of Colony Morphology Variants Isolated from <i>Pseudomonas aeruginosa</i> Biofilms. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4809-4821.	3.1	250
33	The FleQ protein from <i>Pseudomonas aeruginosa</i> functions as both a repressor and an activator to control gene expression from the <i>pel</i> operon promoter in response to c-di-GMP. <i>Nucleic Acids Research</i> , 2012, 40, 7207-7218.	14.5	244
34	Fluorescence-Based Reporter for Gauging Cyclic Di-GMP Levels in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 5060-5069.	3.1	234
35	Experimental reproducibility in flow-chamber biofilms. <i>Microbiology (United Kingdom)</i> , 2000, 146, 2409-2415.	1.8	224
36	Regulation of Quorum Sensing by RpoS in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2000, 182, 4356-4360.	2.2	213

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37	Exopolysaccharide biosynthetic glycoside hydrolases can be utilized to disrupt and prevent <i>Pseudomonas aeruginosa</i> biofilms. <i>Science Advances</i> , 2016, 2, e1501632.	10.3	201
38	<i>Pseudomonas aeruginosa</i> Psl polysaccharide reduces neutrophil phagocytosis and the oxidative response by limiting complement-mediated opsonization. <i>Cellular Microbiology</i> , 2012, 14, 95-106.	2.1	193
39	Quorum sensing and motility mediate interactions between <i>Pseudomonas aeruginosa</i> and <i>Agrobacterium tumefaciens</i> in biofilm cocultures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3828-3833.	7.1	187
40	Mucin- <i>Pseudomonas aeruginosa</i> interactions promote biofilm formation and antibiotic resistance. <i>Molecular Microbiology</i> , 2006, 59, 142-151.	2.5	173
41	<i>Pseudomonas aeruginosa</i> Psl is a Galactose- and Mannose-Rich Exopolysaccharide. <i>Journal of Bacteriology</i> , 2007, 189, 8353-8356.	2.2	159
42	<i>Pseudomonas aeruginosa</i> utilizes host polyunsaturated phosphatidylethanolamines to trigger theft-ferroptosis in bronchial epithelium. <i>Journal of Clinical Investigation</i> , 2018, 128, 4639-4653.	8.2	159
43	The effect of the chemical, biological, and physical environment on quorum sensing in structured microbial communities. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 371-380.	3.7	149
44	ChIP-Seq and RNA-Seq Reveal an AmrZ-Mediated Mechanism for Cyclic di-GMP Synthesis and Biofilm Development by <i>Pseudomonas aeruginosa</i> . <i>PLoS Pathogens</i> , 2014, 10, e1003984.	4.7	149
45	Probing Prokaryotic Social Behaviors with Bacterial "Lobster Traps". <i>MBio</i> , 2010, 1, .	4.1	137
46	Quorum-Sensing Control of Antibiotic Synthesis in <i>Burkholderia thailandensis</i> . <i>Journal of Bacteriology</i> , 2009, 191, 3909-3918.	2.2	129
47	Does <i>Pseudomonas aeruginosa</i> use intercellular signalling to build biofilm communities?. <i>Cellular Microbiology</i> , 2006, 8, 1841-1849.	2.1	127
48	The promise and peril of transcriptional profiling in biofilm communities. <i>Current Opinion in Microbiology</i> , 2007, 10, 292-296.	5.1	121
49	Going local: technologies for exploring bacterial microenvironments. <i>Nature Reviews Microbiology</i> , 2013, 11, 337-348.	28.6	116
50	Phosphorus Limitation Enhances Biofilm Formation of the Plant Pathogen <i>Agrobacterium tumefaciens</i> through the PhoR-PhoB Regulatory System. <i>Journal of Bacteriology</i> , 2004, 186, 4492-4501.	2.2	113
51	Chromosomal antioxidant genes have metal ion-specific roles as determinants of bacterial metal tolerance. <i>Environmental Microbiology</i> , 2009, 11, 2491-2509.	3.8	112
52	New insight into the early stages of biofilm formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4317-4319.	7.1	112
53	The <i>Pseudomonas aeruginosa</i> lectin LecB binds to the exopolysaccharide Psl and stabilizes the biofilm matrix. <i>Nature Communications</i> , 2019, 10, 2183.	12.8	112
54	Detection, purification, and structural elucidation of the acylhomoserine lactone inducer of <i>Vibrio fischeri</i> luminescence and other related molecules. <i>Methods in Enzymology</i> , 2000, 305, 288-301.	1.0	103

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55	Extracellular DNA Impedes the Transport of Vancomycin in <i>Staphylococcus epidermidis</i> Biofilms Preexposed to Subinhibitory Concentrations of Vancomycin. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 7273-7282.	3.2	102
56	[3] Quorum sensing signals in development of <i>Pseudomonas aeruginosa</i> biofilms. <i>Methods in Enzymology</i> , 1999, 310, 43-55.	1.0	101
57	Structure of the Cytoplasmic Region of PelD, a Degenerate Diguanylate Cyclase Receptor That Regulates Exopolysaccharide Production in <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 23582-23593.	3.4	101
58	Oligoribonuclease is a central feature of cyclic diguanylate signaling in <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11359-11364.	7.1	99
59	Acylhomoserine Lactone Synthase Activity of the <i>Vibrio fischeri</i> AinS Protein. <i>Journal of Bacteriology</i> , 1999, 181, 5766-5770.	2.2	99
60	Influence of the Hydrodynamic Environment on Quorum Sensing in <i>Pseudomonas aeruginosa</i> Biofilms. <i>Journal of Bacteriology</i> , 2007, 189, 8357-8360.	2.2	98
61	A unique regulator controls the activation threshold of quorum-regulated genes in <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7916-7921.	7.1	98
62	Heterogeneity in surface sensing suggests a division of labor in <i>Pseudomonas aeruginosa</i> populations. <i>ELife</i> , 2019, 8, .	6.0	96
63	The contribution of cell-cell signaling and motility to bacterial biofilm formation. <i>MRS Bulletin</i> , 2011, 36, 367-373.	3.5	95
64	Synthesis of multiple <i>Pseudomonas aeruginosa</i> biofilm matrix exopolysaccharides is posttranscriptionally regulated. <i>Environmental Microbiology</i> , 2012, 14, 1995-2005.	3.8	94
65	<i>Pseudomonas aeruginosa</i> aggregates in cystic fibrosis sputum produce exopolysaccharides that likely impede current therapies. <i>Cell Reports</i> , 2021, 34, 108782.	6.4	92
66	Analysis of random and site-directed mutations in rhlI, a <i>Pseudomonas aeruginosa</i> gene encoding an acylhomoserine lactone synthase. <i>Molecular Microbiology</i> , 1997, 26, 301-310.	2.5	91
67	PelA Deacetylase Activity Is Required for Pel Polysaccharide Synthesis in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2013, 195, 2329-2339.	2.2	90
68	<i>Pseudomonas aeruginosa</i> rugose small-colony variants evade host clearance, are hyper-inflammatory, and persist in multiple host environments. <i>PLoS Pathogens</i> , 2018, 14, e1006842.	4.7	89
69	Microbial glycoside hydrolases as antibiofilm agents with cross-kingdom activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7124-7129.	7.1	88
70	An Update on the Sociomicrobiology of Quorum Sensing in Gram-Negative Biofilm Development. <i>Pathogens</i> , 2017, 6, 51.	2.8	87
71	Subinhibitory Concentrations of Azithromycin Decrease Nontypeable <i>Haemophilus influenzae</i> Biofilm Formation and Diminish Established Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 137-145.	3.2	86
72	<i>Staphylococcus aureus</i> Protein A Mediates Interspecies Interactions at the Cell Surface of <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2016, 7, .	4.1	86

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73	Pattern formation in <i>Pseudomonas aeruginosa</i> biofilms. <i>Current Opinion in Microbiology</i> , 2008, 11, 560-566.	5.1	84
74	Confocal Laser Scanning Microscopy for Analysis of <i>Pseudomonas aeruginosa</i> Biofilm Architecture and Matrix Localization. <i>Frontiers in Microbiology</i> , 2019, 10, 677.	3.5	81
75	Direct Evaluation of <i>Pseudomonas aeruginosa</i> Biofilm Mediators in a Chronic Infection Model. <i>Infection and Immunity</i> , 2011, 79, 3087-3095.	2.2	79
76	CdrA Interactions within the <i>Pseudomonas aeruginosa</i> Biofilm Matrix Safeguard It from Proteolysis and Promote Cellular Packing. <i>MBio</i> , 2018, 9, .	4.1	76
77	<i>Drosophila</i> are protected from <i>Pseudomonas aeruginosa</i> lethality by transgenic expression of paraoxonase-1. <i>Journal of Clinical Investigation</i> , 2008, 118, 3123-3131.	8.2	74
78	The Cyclic AMP-Vfr Signaling Pathway in <i>Pseudomonas aeruginosa</i> Is Inhibited by Cyclic Di-GMP. <i>Journal of Bacteriology</i> , 2015, 197, 2190-2200.	2.2	73
79	A spider web strategy of type IV pili-mediated migration to build a fibre-like Psl polysaccharide matrix in <i>Pseudomonas aeruginosa</i> biofilms. <i>Environmental Microbiology</i> , 2013, 15, 2238-2253.	3.8	70
80	Elasticity-mediated nematic-like bacterial organization in model extracellular DNA matrix. <i>Physical Review E</i> , 2008, 78, 030701.	2.1	69
81	A Biofilm Matrix-Associated Protease Inhibitor Protects <i>Pseudomonas aeruginosa</i> from Proteolytic Attack. <i>MBio</i> , 2018, 9, .	4.1	63
82	Treatment with the <i>Pseudomonas aeruginosa</i> Glycoside Hydrolase PslG Combats Wound Infection by Improving Antibiotic Efficacy and Host Innate Immune Activity. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	61
83	Spatial Patterns of Carbonate Biomineralization in Biofilms. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7403-7410.	3.1	59
84	Mixed Communities of Mucoïd and Nonmucoïd <i>Pseudomonas aeruginosa</i> Exhibit Enhanced Resistance to Host Antimicrobials. <i>MBio</i> , 2018, 9, .	4.1	59
85	Quorum Sensing Protects <i>Pseudomonas aeruginosa</i> against Cheating by Other Species in a Laboratory Coculture Model. <i>Journal of Bacteriology</i> , 2015, 197, 3154-3159.	2.2	58
86	The Versatile <i>Pseudomonas aeruginosa</i> Biofilm Matrix Protein CdrA Promotes Aggregation through Different Extracellular Exopolysaccharide Interactions. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	53
87	Elevated exopolysaccharide levels in <i>Pseudomonas aeruginosa</i> flagellar mutants have implications for biofilm growth and chronic infections. <i>PLoS Genetics</i> , 2020, 16, e1008848.	3.5	52
88	Biofilms 2009: New Perspectives at the Heart of Surface-Associated Microbial Communities. <i>Journal of Bacteriology</i> , 2010, 192, 2941-2949.	2.2	50
89	PelA and PelB proteins form a modification and secretion complex essential for Pel polysaccharide-dependent biofilm formation in <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 19411-19422.	3.4	47
90	Social Cooperativity of Bacteria during Reversible Surface Attachment in Young Biofilms: a Quantitative Comparison of <i>Pseudomonas aeruginosa</i> PA14 and PAO1. <i>MBio</i> , 2020, 11, .	4.1	47

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91	Blue laser light inhibits biofilm formation in vitro and in vivo by inducing oxidative stress. <i>Npj Biofilms and Microbiomes</i> , 2019, 5, 29.	6.4	40
92	Quorum Sensing Influences <i>Burkholderia thailandensis</i> Biofilm Development and Matrix Production. <i>Journal of Bacteriology</i> , 2016, 198, 2643-2650.	2.2	39
93	The <i>cabABC</i> Operon Essential for Biofilm and Rugose Colony Development in <i>Vibrio vulnificus</i> . <i>PLoS Pathogens</i> , 2015, 11, e1005192.	4.7	37
94	Transcriptional Repression Mediated by LysR-Type Regulator CatR Bound at Multiple Binding Sites. <i>Journal of Bacteriology</i> , 1998, 180, 2367-2372.	2.2	37
95	Bacterial Extracellular Polysaccharides in Biofilm Formation and Function. , 0, , 223-247.		36
96	[4] Acylated homoserine lactone detection in <i>Pseudomonas aeruginosa</i> Biofilms by radiolabel assay. <i>Methods in Enzymology</i> , 2001, 336, 41-47.	1.0	35
97	Bacterial cyclic diguanylate signaling networks sense temperature. <i>Nature Communications</i> , 2021, 12, 1986.	12.8	35
98	The Wsp system of <i>Pseudomonas aeruginosa</i> links surface sensing and cell envelope stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117633119.	7.1	33
99	Oligomeric lipoprotein PelC guides Pel polysaccharide export across the outer membrane of <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2892-2897.	7.1	31
100	Role of <i>psl</i> Genes in Antibiotic Tolerance of Adherent <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	29
101	Pel Polysaccharide Biosynthesis Requires an Inner Membrane Complex Comprised of PelD, PelE, PelF, and PelG. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	29
102	Adhesins Involved in Attachment to Abiotic Surfaces by Gram-Negative Bacteria. , 0, , 163-199.		27
103	Surface-associated microbes continue to surprise us in their sophisticated strategies for assembling biofilm communities. <i>F1000prime Reports</i> , 2014, 6, 26.	5.9	24
104	Transcriptome Analysis of Acetyl-Homoserine Lactone-Based Quorum Sensing Regulation in <i>Yersinia pestis</i> . <i>PLoS ONE</i> , 2013, 8, e62337.	2.5	24
105	<i>In Situ</i> Biomineralization and Particle Deposition Distinctively Mediate Biofilm Susceptibility to Chlorine. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2886-2892.	3.1	23
106	The Pel polysaccharide is predominantly composed of a dimeric repeat of β -1,4 linked galactosamine and N-acetylgalactosamine. <i>Communications Biology</i> , 2022, 5, .	4.4	20
107	LC/MS/MS-Based Quantitative Assay for the Secondary Messenger Molecule, c-di-GMP. <i>Methods in Molecular Biology</i> , 2014, 1149, 271-279.	0.9	19
108	Different Methods for Culturing Biofilms In Vitro. , 2011, , 251-266.		18

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109	Cerebrospinal Fluid Shunt Infection: Emerging Paradigms in Pathogenesis that Affect Prevention and Treatment. <i>Journal of Pediatrics</i> , 2019, 206, 13-19.	1.8	18
110	Systematic Analysis of c-di-GMP Signaling Mechanisms and Biological Functions in <i>Dickeya zeae</i> EC1. <i>MBio</i> , 2020, 11, .	4.1	18
111	The role of Psl in the failure to eradicate <i>Pseudomonas aeruginosa</i> biofilms in children with cystic fibrosis. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 63.	6.4	18
112	Mucoid <i>Pseudomonas aeruginosa</i> Can Produce Calcium-Gelled Biofilms Independent of the Matrix Components Psl and CdrA. <i>Journal of Bacteriology</i> , 2022, 204, e0056821.	2.2	18
113	Antimicrobial Tolerance in Biofilms. , 0, , 269-285.		17
114	Controlling the Connections of Cells to the Biofilm Matrix. <i>Journal of Bacteriology</i> , 2016, 198, 12-14.	2.2	14
115	Division of Labor in Biofilms: the Ecology of Cell Differentiation. , 0, , 67-97.		13
116	c-di-GMP and its Effects on Biofilm Formation and Dispersion: a <i>Pseudomonas Aeruginosa</i> Review. , 0, , 301-317.		13
117	Biofilm Development. , 0, , 51-66.		12
118	Expression, purification, crystallization and preliminary X-ray analysis of <i>Pseudomonas aeruginosa</i> PelD. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 181-184.	0.7	11
119	L-Arabinose Transport and Metabolism in <i>Salmonella</i> Influences Biofilm Formation. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 698146.	3.9	11
120	Targeting Quorum Sensing for Treatment of Chronic Bacterial Biofilm Infections. <i>Laboratory Medicine</i> , 2002, 33, 295-306.	1.2	10
121	Biofilm Matrix Proteins. , 0, , 201-222.		10
122	PelX is a UDP-N-acetylglucosamine C4-epimerase involved in Pel polysaccharide-dependent biofilm formation. <i>Journal of Biological Chemistry</i> , 2020, 295, 11949-11962.	3.4	10
123	Mannose Conjugated Polymer Targeting <i>P. Aeruginosa</i> Biofilms. <i>ACS Infectious Diseases</i> , 2020, 6, 2866-2871.	3.8	9
124	Genomic and Functional Dissections of <i>Dickeya zeae</i> Shed Light on the Role of Type III Secretion System and Cell Wall-Degrading Enzymes to Host Range and Virulence. <i>Microbiology Spectrum</i> , 2022, 10, e0159021.	3.0	8
125	The <i>Pseudomonas aeruginosa</i> homeostasis enzyme AlgL clears the periplasmic space of accumulated alginate during polymer biosynthesis. <i>Journal of Biological Chemistry</i> , 2022, 298, 101560.	3.4	8
126	Effects of an autoinducer analogue on antibiotic tolerance in <i>Pseudomonas aeruginosa</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 2230-2240.	3.0	6

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127	New Technologies for Studying Biofilms. , 2015, , 1-32.		5
128	Biofilm Formation by <i>Cryptococcus neoformans</i> . , 2015, , 135-147.		4
129	Bilingual bacteria. <i>Nature</i> , 2007, 450, 805-807.	27.8	3
130	Interbacterial Antagonism Mediated by a Released Polysaccharide. <i>Journal of Bacteriology</i> , 2022, 204, e0007622.	2.2	3
131	Bacterial Adaptation in Structured Environments: Lessons from Darwin's Finches. <i>Trends in Microbiology</i> , 2021, 29, 5-7.	7.7	1
132	Molecular Mechanisms of Quorum Sensing. , 0, , 361-384.		0
133	Chemical Biology Strategies for Biofilm Control. , 0, , 363-372.		0
134	Analysis of <i>Pseudomonas aeruginosa</i> c-di-GMP High and Low Subpopulations Using Flow-assisted Cell Sorting (FACS) and Quantitative Reverse Transcriptase PCR (qRT-PCR). <i>Bio-protocol</i> , 2021, 11, e3891.	0.4	0
135	Choosing the Right Lifestyle: Regulation of Developmental Pathways by Cyclic Di-GMP. , 0, , 97-119.		0
136	Factors That Impact <i>Pseudomonas aeruginosa</i> Biofilm Structure and Function. , 0, , 1-20.		0