

Scott A Rice

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6934487/scott-a-rice-publications-by-citations.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

204
papers

13,204
citations

52
h-index

112
g-index

227
ext. papers

16,161
ext. citations

5.8
avg. IF

6.44
L-index

#	Paper	IF	Citations
204	Biofilms: an emergent form of bacterial life. <i>Nature Reviews Microbiology</i> , 2016 , 14, 563-75	22.2	2223
203	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	2.9	785
202	Involvement of nitric oxide in biofilm dispersal of <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2006 , 188, 7344-53	3.5	576
201	Should we stay or should we go: mechanisms and ecological consequences for biofilm dispersal. <i>Nature Reviews Microbiology</i> , 2011 , 10, 39-50	22.2	550
200	The genomic basis of trophic strategy in marine bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 15527-33	11.5	472
199	Quorum-sensing cross talk: isolation and chemical characterization of cyclic dipeptides from <i>Pseudomonas aeruginosa</i> and other gram-negative bacteria. <i>Molecular Microbiology</i> , 1999 , 33, 1254-66	4.1	421
198	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, 7333-42	3.5	364
197	Ectopic colonization of oral bacteria in the intestine drives T1 cell induction and inflammation. <i>Science</i> , 2017 , 358, 359-365	33.3	341
196	The role of quorum sensing signalling in EPS production and the assembly of a sludge community into aerobic granules. <i>ISME Journal</i> , 2014 , 8, 1186-97	11.9	245
195	The biofilm life cycle and virulence of <i>Pseudomonas aeruginosa</i> are dependent on a filamentous prophage. <i>ISME Journal</i> , 2009 , 3, 271-82	11.9	216
194	Biofilm formation and sloughing in <i>Serratia marcescens</i> are controlled by quorum sensing and nutrient cues. <i>Journal of Bacteriology</i> , 2005 , 187, 3477-85	3.5	210
193	Biofilm development and enhanced stress resistance of a model, mixed-species community biofilm. <i>ISME Journal</i> , 2014 , 8, 894-907	11.9	208
192	Nitric oxide-mediated dispersal in single- and multi-species biofilms of clinically and industrially relevant microorganisms. <i>Microbial Biotechnology</i> , 2009 , 2, 370-8	6.3	200
191	Nonculturability: adaptation or debilitation?. <i>FEMS Microbiology Ecology</i> , 1998 , 25, 1-9	4.3	190
190	Quorum sensing-controlled biofilm development in <i>Serratia liquefaciens</i> MG1. <i>Journal of Bacteriology</i> , 2004 , 186, 692-8	3.5	188
189	Inhibition of luminescence and virulence in the black tiger prawn (<i>Penaeus monodon</i>) pathogen <i>Vibrio harveyi</i> by intercellular signal antagonists. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 2079-84	4.8	182
188	Understanding, Monitoring, and Controlling Biofilm Growth in Drinking Water Distribution Systems. <i>Environmental Science & Technology</i> , 2016 , 50, 8954-76	10.3	172

187	Nitric oxide: a key mediator of biofilm dispersal with applications in infectious diseases. <i>Current Pharmaceutical Design</i> , 2015 , 21, 31-42	3.3	151
186	Microcolonies, quorum sensing and cytotoxicity determine the survival of <i>Pseudomonas aeruginosa</i> biofilms exposed to protozoan grazing. <i>Environmental Microbiology</i> , 2004 , 6, 218-26	5.2	147
185	Enhancing Bidirectional Electron Transfer of <i>Shewanella oneidensis</i> by a Synthetic Flavin Pathway. <i>ACS Synthetic Biology</i> , 2015 , 4, 815-23	5.7	143
184	<i>Pseudomonas aeruginosa</i> PAO1 preferentially grows as aggregates in liquid batch cultures and disperses upon starvation. <i>PLoS ONE</i> , 2009 , 4, e5513	3.7	135
183	Co-delivery of nitric oxide and antibiotic using polymeric nanoparticles. <i>Chemical Science</i> , 2016 , 7, 1016-1027	10.7	125
182	Cephalosporin-3Sdiazoniumdiolates: targeted NO-donor prodrugs for dispersing bacterial biofilms. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9057-60	16.4	116
181	Mannitol enhances antibiotic sensitivity of persister bacteria in <i>Pseudomonas aeruginosa</i> biofilms. <i>PLoS ONE</i> , 2013 , 8, e84220	3.7	113
180	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	11.7	106
179	Dynamic remodeling of microbial biofilms by functionally distinct exopolysaccharides. <i>MBio</i> , 2014 , 5, e01536-14	7.8	106
178	Community quorum sensing signalling and quenching: microbial granular biofilm assembly. <i>Npj Biofilms and Microbiomes</i> , 2015 , 1, 15006	8.2	105
177	Grazing resistance of <i>Pseudomonas aeruginosa</i> biofilms depends on type of protective mechanism, developmental stage and protozoan feeding mode. <i>Environmental Microbiology</i> , 2005 , 7, 1593-601	5.2	104
176	Enhanced <i>Shewanella</i> biofilm promotes bioelectricity generation. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2051-9	4.9	95
175	The presence and role of bacterial quorum sensing in activated sludge. <i>Microbial Biotechnology</i> , 2012 , 5, 621-33	6.3	92
174	<i>Pseudomonas aeruginosa</i> with lasI quorum-sensing deficiency during corneal infection. <i>Investigative Ophthalmology and Visual Science</i> , 2004 , 45, 1897-903		91
173	Modification of in vivo and in vitro T- and B-cell-mediated immune responses by the <i>Pseudomonas aeruginosa</i> quorum-sensing molecule N-(3-oxododecanoyl)-L-homoserine lactone. <i>Infection and Immunity</i> , 2003 , 71, 4421-31	3.7	91
172	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	2.9	85
171	Quorum-sensing regulation of adhesion in <i>Serratia marcescens</i> MG1 is surface dependent. <i>Journal of Bacteriology</i> , 2007 , 189, 2702-11	3.5	83
170	Characterization of biofouling in a lab-scale forward osmosis membrane bioreactor (FOMBR). <i>Water Research</i> , 2014 , 58, 141-51	12.5	82

169	Identification of five structurally unrelated quorum-sensing inhibitors of <i>Pseudomonas aeruginosa</i> from a natural-derivative database. <i>Antimicrobial Agents and Chemotherapy</i> , 2013 , 57, 5629-41	5.9	78
168	Bacterial quorum sensing and interference by naturally occurring biomimics. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 445-53	4.4	77
167	Big things in small packages: the genetics of filamentous phage and effects on fitness of their hosts <i>FEMS Microbiology Reviews</i> , 2015 , 39, 465-87	15.1	76
166	SmcR-dependent regulation of adaptive phenotypes in <i>Vibrio vulnificus</i> . <i>Journal of Bacteriology</i> , 2001 , 183, 758-62	3.5	75
165	Bis-(3S5S)-cyclic dimeric GMP regulates antimicrobial peptide resistance in <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2013 , 57, 2066-75	5.9	73
164	Microbially influenced corrosion: Any progress?. <i>Corrosion Science</i> , 2020 , 170, 108641	6.8	70
163	The alternative sigma factor RpoN regulates the quorum sensing gene <i>rhlI</i> in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 2003 , 220, 187-95	2.9	69
162	The impact of flux and spacers on biofilm development on reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2012 , 405-406, 219-232	9.6	68
161	Role of quorum sensing by <i>Pseudomonas aeruginosa</i> in microbial keratitis and cystic fibrosis. <i>Microbiology (United Kingdom)</i> , 2008 , 154, 2184-2194	2.9	62
160	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	11.5	61
159	CO-Releasing Polymers Exert Antimicrobial Activity. <i>Biomacromolecules</i> , 2015 , 16, 2776-86	6.9	59
158	Modulating Antimicrobial Activity and Mammalian Cell Biocompatibility with Glucosamine-Functionalized Star Polymers. <i>Biomacromolecules</i> , 2016 , 17, 1170-8	6.9	58
157	All together now: experimental multispecies biofilm model systems. <i>Environmental Microbiology</i> , 2017 , 19, 42-53	5.2	55
156	Widespread and Indiscriminate Nanosilver Use: Genuine Potential for Microbial Resistance. <i>ACS Nano</i> , 2017 , 11, 3438-3445	16.7	54
155	Nanoparticles of Short Cationic Peptidopolysaccharide Self-Assembled by Hydrogen Bonding with Antibacterial Effect against Multidrug-Resistant Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38288-38303	9.5	53
154	Glucose starvation-induced dispersal of <i>Pseudomonas aeruginosa</i> biofilms is cAMP and energy dependent. <i>PLoS ONE</i> , 2012 , 7, e42874	3.7	52
153	Microbial activity in biofilter used as a pretreatment for seawater desalination. <i>Desalination</i> , 2013 , 309, 254-260	10.3	52
152	Phenotypic diversification and adaptation of <i>Serratia marcescens</i> MG1 biofilm-derived morphotypes. <i>Journal of Bacteriology</i> , 2007 , 189, 119-30	3.5	52

151	Signal-mediated cross-talk regulates stress adaptation in <i>Vibrio</i> species. <i>Microbiology (United Kingdom)</i> , 2003 , 149, 1923-1933	2.9	51
150	The role of quorum sensing mediated developmental traits in the resistance of <i>Serratia marcescens</i> biofilms against protozoan grazing. <i>Environmental Microbiology</i> , 2006 , 8, 1017-25	5.2	50
149	Quorum quenching bacteria can be used to inhibit the biofouling of reverse osmosis membranes. <i>Water Research</i> , 2017 , 112, 29-37	12.5	49
148	Optimal dosing regimen of nitric oxide donor compounds for the reduction of <i>Pseudomonas aeruginosa</i> biofilm and isolates from wastewater membranes. <i>Biofouling</i> , 2013 , 29, 203-12	3.3	49
147	<i>Pseudomonas aeruginosa</i> PAO1 exopolysaccharides are important for mixed species biofilm community development and stress tolerance. <i>Frontiers in Microbiology</i> , 2015 , 6, 851	5.7	49
146	Defences against oxidative stress during starvation in bacteria. <i>Antonie Van Leeuwenhoek</i> , 2002 , 81, 3-13	3.1	48
145	The marine pathogen <i>Vibrio vulnificus</i> encodes a putative homologue of the <i>Vibrio harveyi</i> regulatory gene, luxR: a genetic and phylogenetic comparison. <i>Gene</i> , 2000 , 248, 213-21	3.8	45
144	Voltammetric profiling of redox-active metabolites expressed by <i>Pseudomonas aeruginosa</i> for diagnostic purposes. <i>Chemical Communications</i> , 2015 , 51, 3789-92	5.8	44
143	Quorum sensing-regulated chitin metabolism provides grazing resistance to <i>Vibrio cholerae</i> biofilms. <i>ISME Journal</i> , 2015 , 9, 1812-20	11.9	43
142	Kinetics of the AHL regulatory system in a model biofilm system: how many bacteria constitute a "quorum"? <i>Journal of Molecular Biology</i> , 2001 , 309, 631-40	6.5	43
141	Dynamic modelling of cell death during biofilm development. <i>Journal of Theoretical Biology</i> , 2012 , 295, 23-36	2.3	42
140	Synthesis of cephalosporin-3Sdiazoniumdiolates: biofilm dispersing NO-donor prodrugs activated by β -lactamase. <i>Chemical Communications</i> , 2013 , 49, 4791-3	5.8	41
139	Nitric oxide treatment for the control of reverse osmosis membrane biofouling. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 2515-24	4.8	40
138	The role of regulators in the expression of quorum-sensing signals in <i>Pseudomonas aeruginosa</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2003 , 6, 88-100	0.9	40
137	Diversity of retron elements in a population of rhizobia and other gram-negative bacteria. <i>Journal of Bacteriology</i> , 1993 , 175, 4250-4	3.5	39
136	Mechanical properties of the superficial biofilm layer determine the architecture of biofilms. <i>Soft Matter</i> , 2016 , 12, 5718-26	3.6	38
135	Design, synthesis, and evaluation of fimbrolide-nitric oxide donor hybrids as antimicrobial agents. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 9517-29	8.3	37
134	Dynamics of biofilm formation under different nutrient levels and the effect on biofouling of a reverse osmosis membrane system. <i>Biofouling</i> , 2013 , 29, 319-30	3.3	37

133	In-situ monitoring of biofouling on reverse osmosis membranes: Detection and mechanistic study using electrical impedance spectroscopy. <i>Journal of Membrane Science</i> , 2016 , 518, 229-242	9.6	37
132	Bacterial signals and antagonists: the interaction between bacteria and higher organisms. <i>Journal of Molecular Microbiology and Biotechnology</i> , 1999 , 1, 23-31	0.9	37
131	The use of quorum-sensing blockers as therapeutic agents for the control of biofilm-associated infections. <i>Current Opinion in Investigational Drugs</i> , 2005 , 6, 178-84		37
130	Indole-based novel small molecules for the modulation of bacterial signalling pathways. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 925-37	3.9	36
129	Effects of Surface Composition on the Aerosolisation and Dissolution of Inhaled Antibiotic Combination Powders Consisting of Colistin and Rifampicin. <i>AAPS Journal</i> , 2016 , 18, 372-84	3.7	36
128	Engineering a light-responsive, quorum quenching biofilm to mitigate biofouling on water purification membranes. <i>Science Advances</i> , 2018 , 4, eaau1459	14.3	35
127	Interspecific diversity reduces and functionally substitutes for intraspecific variation in biofilm communities. <i>ISME Journal</i> , 2016 , 10, 846-57	11.9	34
126	Biofouling in reverse osmosis processes: The roles of flux, crossflow velocity and concentration polarization in biofilm development. <i>Journal of Membrane Science</i> , 2014 , 467, 116-125	9.6	33
125	Modeling the effect of acylated homoserine lactone antagonists in <i>Pseudomonas aeruginosa</i> . <i>BioSystems</i> , 2005 , 80, 201-13	1.9	32
124	Quorum sensing inhibitory activities of surface immobilized antibacterial dihydropyrrolones via click chemistry. <i>Biomaterials</i> , 2014 , 35, 2336-45	15.6	31
123	Predation by <i>Bdellovibrio bacteriovorus</i> significantly reduces viability and alters the microbial community composition of activated sludge flocs and granules. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	29
122	Phylogenetic comparison of retron elements among the myxobacteria: evidence for vertical inheritance. <i>Journal of Bacteriology</i> , 1995 , 177, 37-45	3.5	29
121	Mechanistic action of weak acid drugs on biofilms. <i>Scientific Reports</i> , 2017 , 7, 4783	4.9	28
120	Comparative genomics of clinical strains of <i>Pseudomonas aeruginosa</i> strains isolated from different geographic sites. <i>Scientific Reports</i> , 2018 , 8, 15668	4.9	28
119	Succession of biofilm communities responsible for biofouling of membrane bio-reactors (MBRs). <i>PLoS ONE</i> , 2017 , 12, e0179855	3.7	27
118	A rapid bioluminescence-based test of assimilable organic carbon for seawater. <i>Desalination</i> , 2013 , 317, 160-165	10.3	27
117	A risk assessment of <i>Pseudomonas aeruginosa</i> in swimming pools: a review. <i>Journal of Water and Health</i> , 2012 , 10, 181-96	2.2	27
116	Isolation of <i>Bdellovibrio bacteriovorus</i> from a tropical wastewater treatment plant and predation of mixed species biofilms assembled by the native community members. <i>Environmental Microbiology</i> , 2016 , 18, 3923-3931	5.2	27

115	Vibrio vulnificus: a physiological and genetic approach to the viable but nonculturable response. <i>Journal of Infection and Chemotherapy</i> , 2000 , 6, 115-20	2.2	26
114	Green biolubricant infused slippery surfaces to combat marine biofouling. <i>Journal of Colloid and Interface Science</i> , 2020 , 568, 185-197	9.3	25
113	Design, synthesis and evaluation of N-aryl-glyoxamide derivatives as structurally novel bacterial quorum sensing inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 680-693	3.9	25
112	Interactions of plasma-activated water with biofilms: inactivation, dispersal effects and mechanisms of action. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 11	8.2	25
111	Urinary catheter-associated microbiota change in accordance with treatment and infection status. <i>PLoS ONE</i> , 2017 , 12, e0177633	3.7	24
110	Probing the internal micromechanical properties of biofilms by Brillouin imaging. <i>Npj Biofilms and Microbiomes</i> , 2017 , 3, 20	8.2	24
109	Cinnamaldehyde disrupts biofilm formation and swarming motility of Pseudomonas aeruginosa. <i>Microbiology (United Kingdom)</i> , 2018 , 164, 1087-1097	2.9	24
108	Association between possession of ExoU and antibiotic resistance in Pseudomonas aeruginosa. <i>PLoS ONE</i> , 2018 , 13, e0204936	3.7	24
107	Next-generation studies of microbial biofilm communities. <i>Microbial Biotechnology</i> , 2016 , 9, 677-80	6.3	23
106	Pseudomonas aeruginosa dose response and bathing water infection. <i>Epidemiology and Infection</i> , 2014 , 142, 449-62	4.3	23
105	The roles of Pseudomonas aeruginosa extracellular polysaccharides in biofouling of reverse osmosis membranes and nitric oxide induced dispersal. <i>Journal of Membrane Science</i> , 2014 , 466, 161-172 ^{9.6}		23
104	Biofilm dispersal cells of a cystic fibrosis Pseudomonas aeruginosa isolate exhibit variability in functional traits likely to contribute to persistent infection. <i>FEMS Immunology and Medical Microbiology</i> , 2012 , 66, 251-64		23
103	Long-term effect on membrane fouling in a new membrane bioreactor as a pretreatment to seawater desalination. <i>Bioresource Technology</i> , 2014 , 165, 60-8	11	22
102	The role of quorum sensing and the effect of environmental conditions on biofilm formation by strains of Vibrio vulnificus. <i>Biofouling</i> , 2006 , 22, 161-172	3.3	22
101	SiaA/D Interconnects c-di-GMP and RsmA Signaling to Coordinate Cellular Aggregation of Pseudomonas aeruginosa in Response to Environmental Conditions. <i>Frontiers in Microbiology</i> , 2016 , 7, 179	5.7	22
100	Insights into Biofilm Dispersal Regulation from the Crystal Structure of the PAS-GGDEF-EAL Region of RbdA from Pseudomonas aeruginosa. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	22
99	The correlation between biofilm biopolymer composition and membrane fouling in submerged membrane bioreactors. <i>Biofouling</i> , 2014 , 30, 1093-110	3.3	20
98	Characterisation and in vitro activities of surface attached dihydropyrrrol-2-ones against Gram-negative and Gram-positive bacteria. <i>Biofouling</i> , 2010 , 26, 913-21	3.3	20

97	Starvation Response of the Marine Barophile CNPT-3. <i>Applied and Environmental Microbiology</i> , 1992 , 58, 2432-7	4.8	20
96	Weak acids as an alternative anti-microbial therapy. <i>Biofilm</i> , 2020 , 2, 100019	5.9	19
95	Single microcolony diffusion analysis in biofilms. <i>Npj Biofilms and Microbiomes</i> , 2019 , 5, 35	8.2	19
94	Minimal increase in genetic diversity enhances predation resistance. <i>Molecular Ecology</i> , 2012 , 21, 1741-53	3.7	19
93	A programmable lipid-polymer hybrid nanoparticle system for localized, sustained antibiotic delivery to Gram-positive and Gram-negative bacterial biofilms. <i>Nanoscale Horizons</i> , 2018 , 3, 305-311	10.8	18
92	Novel Inhaled Combination Powder Containing Amorphous Colistin and Crystalline Rifapentine with Enhanced Antimicrobial Activities against Planktonic Cells and Biofilm of <i>Pseudomonas aeruginosa</i> for Respiratory Infections. <i>Molecular Pharmaceutics</i> , 2015 , 12, 2594-603	5.6	18
91	Environmental cues and genes involved in establishment of the superinfective Pf4 phage of <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2014 , 5, 654	5.7	18
90	Interfaces between bacterial and eukaryotic "neuroecology". <i>Integrative and Comparative Biology</i> , 2011 , 51, 794-806	2.8	18
89	Real Time, Spatial, and Temporal Mapping of the Distribution of c-di-GMP during Biofilm Development. <i>Journal of Biological Chemistry</i> , 2017 , 292, 477-487	5.4	17
88	Synthesis, quorum sensing inhibition and docking studies of 1,5-dihydropyrrol-2-ones. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 7366-77	3.4	17
87	Matrix Polysaccharides and SiaD Diguanylate Cyclase Alter Community Structure and Competitiveness of during Dual-Species Biofilm Development with. <i>MBio</i> , 2018 , 9,	7.8	17
86	Dihydropyrrolones as bacterial quorum sensing inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 1054-1059	2.9	16
85	Nanosilver and the microbiological activity of the particulate solids versus the leached soluble silver. <i>Nanotoxicology</i> , 2018 , 12, 263-273	5.3	16
84	Analysis of microbial community composition in a lab-scale membrane distillation bioreactor. <i>Journal of Applied Microbiology</i> , 2015 , 118, 940-53	4.7	16
83	Probiotics [LGG-BB12 or RC14-GR1] versus placebo as prophylaxis for urinary tract infection in persons with spinal cord injury [ProSCIUTTU]: a study protocol for a randomised controlled trial. <i>BMC Urology</i> , 2016 , 16, 18	2.2	15
82	Expression stability of 13 housekeeping genes during carbon starvation of <i>Pseudomonas aeruginosa</i> . <i>Journal of Microbiological Methods</i> , 2016 , 127, 182-187	2.8	15
81	Nonculturability: adaptation or debilitation?		15
80	Furoxan Nitric Oxide Donors Disperse <i>Pseudomonas aeruginosa</i> Biofilms, Accelerate Growth, and Repress Pyoverdine Production. <i>ACS Chemical Biology</i> , 2017 , 12, 2097-2106	4.9	14

79	Immobilization of antibacterial dihydropyrrol-2-ones on functional polymer supports to prevent bacterial infections in vivo. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 1138-41	5.9	14
78	Heritable nanosilver resistance in priority pathogen: a unique genetic adaptation and comparison with ionic silver and antibiotics. <i>Nanoscale</i> , 2020 , 12, 2384-2392	7.7	14
77	High bacterial diversity in nearshore and oceanic biofilms and their influence on larval settlement by <i>Hydroides elegans</i> (Polychaeta). <i>Environmental Microbiology</i> , 2019 , 21, 3472	5.2	13
76	Hybrids of acylated homoserine lactone and nitric oxide donors as inhibitors of quorum sensing and virulence factors in <i>Pseudomonas aeruginosa</i> . <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 9850-61	3.9	13
75	Biofouling control in reverse osmosis by nitric oxide treatment and its impact on the bacterial community. <i>Journal of Membrane Science</i> , 2018 , 550, 313-321	9.6	13
74	Effect of microbial community structure on organic removal and biofouling in membrane adsorption bioreactor used in seawater pretreatment. <i>Chemical Engineering Journal</i> , 2016 , 294, 30-39	14.7	13
73	Onset of Microbial Influenced Corrosion (MIC) in Stainless Steel Exposed to Mixed Species Biofilms from Equatorial Seawater. <i>Journal of the Electrochemical Society</i> , 2017 , 164, C532-C538	3.9	13
72	Repetitive sequences found in the chromosome of the myxobacterium <i>Nannocystis exedens</i> are similar to msDNA: a possible retrotransposition event in bacteria. <i>Molecular Microbiology</i> , 1997 , 23, 813-823	4.1	13
71	Antibiotic Resistance Characteristics of Isolated from Keratitis in Australia and India. <i>Antibiotics</i> , 2020 , 9,	4.9	13
70	Dispersal from Microbial Biofilms. <i>Microbiology Spectrum</i> , 2015 , 3,	8.9	12
69	Measurement of oxygen concentrations in bacterial biofilms using transient state monitoring by single plane illumination microscopy. <i>Biomedical Physics and Engineering Express</i> , 2017 , 3, 035020	1.5	11
68	Biofilm formation inhibition and dispersal of multi-species communities containing ammonia-oxidising bacteria. <i>Npj Biofilms and Microbiomes</i> , 2019 , 5, 22	8.2	11
67	The application of nitric oxide to control biofouling of membrane bioreactors. <i>Microbial Biotechnology</i> , 2015 , 8, 549-60	6.3	11
66	Nitric Oxide-Mediated Induction of Dispersal in <i>Pseudomonas aeruginosa</i> Biofilms Is Inhibited by Flavohemoglobin Production and Is Enhanced by Imidazole. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	11
65	Design and Synthesis of Lactams Derived from Mucochloric and Mucobromic Acids as Quorum Sensing Inhibitors. <i>Molecules</i> , 2018 , 23,	4.8	11
64	Probiotics [LGG-BB12 or RC14-GR1] versus placebo as prophylaxis for urinary tract infection in persons with spinal cord injury [ProSCIUTTU]: a randomised controlled trial. <i>Spinal Cord</i> , 2019 , 57, 550-561	2.7	11
63	Membrane adaptation limitations in underlie sensitivity and the inability to develop significant resistance to conjugated oligoelectrolytes.. <i>RSC Advances</i> , 2018 , 8, 10284-10293	3.7	10
62	Characterization of the archaeal community fouling a membrane bioreactor. <i>Journal of Environmental Sciences</i> , 2015 , 29, 115-23	6.4	10

61	Solvent optimization for bacterial extracellular matrices: a solution for the insoluble. <i>RSC Advances</i> , 2015 , 5, 7469-7478	3.7	10
60	Bacterial reverse transcriptase and msDNA. <i>Virus Genes</i> , 1995 , 11, 95-104	2.3	10
59	Cephalosporin-3?-diazoniumdiolates: Targeted NO-Donor Prodrugs for Dispersing Bacterial Biofilms. <i>Angewandte Chemie</i> , 2012 , 124, 9191-9194	3.6	9
58	Nitric Oxide and Iron Signaling Cues Have Opposing Effects on Biofilm Development in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	9
57	Quantitative imaging and spectroscopic technologies for microbiology. <i>FEMS Microbiology Letters</i> , 2018 , 365,	2.9	8
56	<i>Pseudomonas aeruginosa</i> : A Model for Biofilm Formation 215-253		8
55	Evolution of biofilm-forming pathogenic bacteria in the presence of nanoparticles and antibiotic: adaptation phenomena and cross-resistance. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 291	9.4	8
54	A comparative study on nitric oxide and hypochlorite as a membrane cleaning agent to minimise biofilm growth in a membrane bioreactor (MBR) process. <i>Biochemical Engineering Journal</i> , 2019 , 148, 9-15	4.2	7
53	Nucleotide sequence analysis of NPS-1 β -lactamase and a novel integron (In1427)-carrying transposon in an MDR <i>Pseudomonas aeruginosa</i> keratitis strain. <i>Journal of Antimicrobial Chemotherapy</i> , 2018 , 73, 1724-1726	5.1	7
52	Theoretical study of molecular determinants involved in signal binding to the TraR protein of <i>Agrobacterium tumefaciens</i> . <i>Molecules</i> , 2005 , 10, 1263-71	4.8	7
51	Dose-response algorithms for water-borne <i>Pseudomonas aeruginosa</i> folliculitis. <i>Epidemiology and Infection</i> , 2015 , 143, 1524-37	4.3	6
50	Convection and the Extracellular Matrix Dictate Inter- and Intra-Biofilm Quorum Sensing Communication in Environmental Systems. <i>Environmental Science & Technology</i> , 2020 , 54, 6730-6740	10.3	6
49	Discovery of Cephalosporin-3SDiazoniumdiolates That Show Dual Antibacterial and Antibiofilm Effects against Clinical Cystic Fibrosis Isolates and Efficacy in a Murine Respiratory Infection Model. <i>ACS Infectious Diseases</i> , 2020 , 6, 1460-1479	5.5	6
48	Draft Genome Sequence of <i>Klebsiella pneumoniae</i> Strain KP-1. <i>Genome Announcements</i> , 2013 , 1,		6
47	A partial copy of msDNA from a new retron element is likely a retrotransposed DNA found in the myxobacterium <i>Nannocystis exedens</i> . <i>Gene</i> , 2002 , 299, 251-61	3.8	6
46	Mechanical signatures of microbial biofilms in micropillar-embedded growth chambers. <i>Soft Matter</i> , 2016 , 12, 5224-32	3.6	6
45	Evaluation of hindered amine light stabilisers and their N -chlorinated derivatives as antibacterial and antifungal additives for thermoset surface coatings. <i>Progress in Organic Coatings</i> , 2016 , 99, 330-336	4.8	6
44	Using Diphenylphosphoryl Azide (DPPA) for the Facile Synthesis of Biodegradable Antiseptic Random Copolypeptides. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1600601	4.8	5

43	Accessory genome of the multi-drug resistant ocular isolate of <i>Pseudomonas aeruginosa</i> PA34. <i>PLoS ONE</i> , 2019 , 14, e0215038	3.7	5
42	Acquired fluoroquinolone resistance genes in corneal isolates of <i>Pseudomonas aeruginosa</i> . <i>Infection, Genetics and Evolution</i> , 2020 , 85, 104574	4.5	5
41	Genetic and chemical tools for investigating signaling processes in biofilms. <i>Methods in Enzymology</i> , 2001 , 336, 108-28	1.7	5
40	Design, Synthesis and Biological Evaluation of Novel Anthraniloyl-AMP Mimics as PQS Biosynthesis Inhibitors Against Resistance. <i>Molecules</i> , 2020 , 25,	4.8	5
39	Mixed community biofilms and microbially influenced corrosion. <i>Microbiology Australia</i> , 2018 , 39, 152	0.8	5
38	Mesosopic Energy Minimization Drives <i>Pseudomonas aeruginosa</i> Biofilm Morphologies and Consequent Stratification of Antibiotic Activity Based on Cell Metabolism. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	4
37	Investigation of the microbial communities colonizing prepainted steel used for roofing and walling. <i>MicrobiologyOpen</i> , 2017 , 6, e00425	3.4	4
36	Laboratory and Field Testing Assessment of Next Generation Biocide-Free, Fouling-Resistant Slippery Coatings. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 5147-5162	4.3	4
35	Influence of interspecies interactions on the spatial organization of dual species bacterial communities. <i>Biofilm</i> , 2020 , 2, 100035	5.9	4
34	Nitrite production by ammonia-oxidizing bacteria mediates chloramine decay and resistance in a mixed-species community. <i>Microbial Biotechnology</i> , 2020 , 13, 1847-1859	6.3	4
33	The biofilm matrix scaffold of <i>Pseudomonas aeruginosa</i> contains G-quadruplex extracellular DNA structures. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 27	8.2	4
32	Draft genome sequence of the chronic, nonclonal cystic fibrosis isolate <i>Pseudomonas aeruginosa</i> strain 18A. <i>Genome Announcements</i> , 2013 , 1, e0000113		3
31	Adaptation to an amoeba host drives selection of virulence-associated traits in <i>Vibrio cholerae</i> . <i>ISME Journal</i> , 2021 ,	11.9	3
30	Detection and inhibition of bacterial cell-cell communication. <i>Methods in Molecular Biology</i> , 2008 , 431, 55-68	1.4	3
29	<i>Pseudomonas aeruginosa</i> isolates co-incubated with <i>Acanthamoeba castellanii</i> exhibit phenotypes similar to chronic cystic fibrosis isolates		3
28	The biofilm matrix scaffold of <i>Pseudomonas</i> species contains non-canonically base paired extracellular DNA and RNA		3
27	Graphene Oxide Mimics Biological Signaling Cue to Rescue Starving Bacteria. <i>Advanced Functional Materials</i> , 2021 , 31, 2102328	15.6	3
26	Development of a quorum quenching-column to control biofouling in reverse osmosis water treatment processes. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 94, 188-194	6.3	3

25	Thioether-linked dihydropyrrol-2-one analogues as PqsR antagonists against antibiotic resistant <i>Pseudomonas aeruginosa</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2021 , 31, 115967	3.4	3
24	Adapts to Antimicrobial Conjugated Oligoelectrolytes by Lipid Rearrangement and Differential Expression of Membrane Stress Response Genes. <i>Frontiers in Microbiology</i> , 2020 , 11, 155	5.7	2
23	Effect of probiotics on multi-resistant organism colonisation in persons with spinal cord injury: secondary outcome of ProSCIUTTU, a randomised placebo-controlled trial. <i>Spinal Cord</i> , 2020 , 58, 755-767	7.7	2
22	Draft Genome Sequence of <i>Enterobacter</i> sp. Strain EA-1, an Electrochemically Active Microorganism Isolated from Tropical Sediment. <i>Genome Announcements</i> , 2018 , 6,		2
21	Bacterial Communication Systems 2014 , 171-188		2
20	In Situ Mapping of the Mechanical Properties of Biofilms by Particle-tracking Microrheology. <i>Journal of Visualized Experiments</i> , 2015 , e53093	1.6	2
19	Dispersal from Microbial Biofilms 2015 , 343-362		2
18	Induction of resistance to <i>S. aureus</i> in an environmental marine biofilm grown in Sydney Harbor, NSW, Australia. <i>World Journal of Microbiology and Biotechnology</i> , 2015 , 31, 353-8	4.4	2
17	Novel Phage Lysin Abp013 against .. <i>Antibiotics</i> , 2022 , 11,	4.9	2
16	The SiaABC threonine phosphorylation pathway controls biofilm formation in response to carbon availability in <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2020 , 15, e0241019	3.7	2
15	Loss of the acetate switch in enhances predation defence against. <i>Applied and Environmental Microbiology</i> , 2021 , AEM0166521	4.8	2
14	Bacterial signaling and signal responses as key factors in water and wastewater treatment. <i>Journal of Water Process Engineering</i> , 2021 , 44, 102434	6.7	2
13	Influence of High Intensity Focused Ultrasound on the Microstructure and c-di-GMP Signaling of Biofilms. <i>Frontiers in Microbiology</i> , 2020 , 11, 599407	5.7	2
12	Functional metagenomic analysis of quorum sensing signaling in a nitrifying community. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 79	8.2	2
11	Microbial predation accelerates granulation and modulates microbial community composition. <i>BMC Microbiology</i> , 2021 , 21, 91	4.5	2
10	The Repressor C Protein, Pf4r, Controls Superinfection of PAO1 by the Pf4 Filamentous Phage and Regulates Host Gene Expression. <i>Viruses</i> , 2021 , 13,	6.2	2
9	Carbon starvation of <i>Pseudomonas aeruginosa</i> biofilms selects for dispersal insensitive mutants. <i>BMC Microbiology</i> , 2021 , 21, 255	4.5	2
8	Cyclic-di-GMP is required for corneal infection by <i>Pseudomonas aeruginosa</i> and modulates host immunity		1

7	Bacterial Reverse Transcriptase and msDNA 1996 , 23-32		1
6	N-Acyl Homoserine Lactone-Mediated Quorum Sensing Regulates Species Interactions in Multispecies Biofilm Communities. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021 , 11, 646991	5.9	1
5	Remote control of biofouling by heating PDMS/MnZn ferrite nanocomposites with an alternating magnetic field. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 2713-2720	3.5	0
4	Adaptation to an amoeba host leads to isolates with attenuated virulence.. <i>Applied and Environmental Microbiology</i> , 2022 , aem0232221	4.8	0
3	Development of antibiotic resistance in the ocular <i>Pseudomonas aeruginosa</i> clone ST308 over twenty years. <i>Experimental Eye Research</i> , 2021 , 205, 108504	3.7	0
2	Interactions between microbial community members. <i>Environmental Microbiology Reports</i> , 2017 , 9, 471-473	3.7	0
1	inPhocus: Current State and Challenges of Phage Research in Singapore. <i>Phage</i> , 2022 , 3, 6-11	1.8	