Scott A Rice

List of Publications by Year in Descending Order

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	Novel Phage Lysin Abp013 against .. *Antibiotics*, **2022**, 11,	4.9	2
203	Adaptation to an amoeba host leads to isolates with attenuated virulence.. *Applied and Environmental Microbiology*, **2022**, aem0232221	4.8	0
202	inPhocus: Current State and Challenges of Phage Research in Singapore. *Phage*, **2022**, 3, 6-11	1.8	
201	Loss of the acetate switch in enhances predation defence against. *Applied and Environmental Microbiology*, **2021**, AEM0166521	4.8	2
200	Bacterial signaling and signal responses as key factors in water and wastewater treatment. *Journal of Water Process Engineering*, **2021**, 44, 102434	6.7	2
199	Adaptation to an amoeba host drives selection of virulence-associated traits in Vibrio cholerae. *ISME Journal*, **2021**,	11.9	3
198	Functional metagenomic analysis of quorum sensing signaling in a nitrifying community. *Npj Biofilms and Microbiomes*, **2021**, 7, 79	8.2	2
197	Microbial predation accelerates granulation and modulates microbial community composition. *BMC Microbiology*, **2021**, 21, 91	4.5	2
196	The biofilm matrix scaffold of Pseudomonas aeruginosa contains G-quadruplex extracellular DNA structures. *Npj Biofilms and Microbiomes*, **2021**, 7, 27	8.2	4
195	N-Acyl Homoserine Lactone-Mediated Quorum Sensing Regulates Species Interactions in Multispecies Biofilm Communities. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 646991	5.9	1
194	Graphene Oxide Mimics Biological Signaling Cue to Rescue Starving Bacteria. *Advanced Functional Materials*, **2021**, 31, 2102328	15.6	3
193	Development of antibiotic resistance in the ocular Pseudomonas aeruginosa clone ST308 over twenty years. *Experimental Eye Research*, **2021**, 205, 108504	3.7	0
192	Development of a quorum quenching-column to control biofouling in reverse osmosis water treatment processes. *Journal of Industrial and Engineering Chemistry*, **2021**, 94, 188-194	6.3	3
191	Thioether-linked dihydropyrrol-2-one analogues as PqsR antagonists against antibiotic resistant Pseudomonas aeruginosa. *Bioorganic and Medicinal Chemistry*, **2021**, 31, 115967	3.4	3
190	The Repressor C Protein, Pf4r, Controls Superinfection of PAO1 by the Pf4 Filamentous Phage and Regulates Host Gene Expression. *Viruses*, **2021**, 13,	6.2	2
189	Carbon starvation of Pseudomonas aeruginosa biofilms selects for dispersal insensitive mutants. *BMC Microbiology*, **2021**, 21, 255	4.5	2
188	Evolution of biofilm-forming pathogenic bacteria in the presence of nanoparticles and antibiotic: adaptation phenomena and cross-resistance. *Journal of Nanobiotechnology*, **2021**, 19, 291	9.4	8

187	Interactions of plasma-activated water with biofilms: inactivation, dispersal effects and mechanisms of action. *Npj Biofilms and Microbiomes*, **2021**, 7, 11	8.2	25
186	Acquired fluoroquinolone resistance genes in corneal isolates of Pseudomonas aeruginosa. *Infection, Genetics and Evolution*, **2020**, 85, 104574	4.5	5
185	Convection and the Extracellular Matrix Dictate Inter- and Intra-Biofilm Quorum Sensing Communication in Environmental Systems. *Environmental Science & Technology*, **2020**, 54, 6730-6740	10.3	6
184	Adapts to Antimicrobial Conjugated Oligoelectrolytes by Lipid Rearrangement and Differential Expression of Membrane Stress Response Genes. *Frontiers in Microbiology*, **2020**, 11, 155	5.7	2
183	Green biolubricant infused slippery surfaces to combat marine biofouling. *Journal of Colloid and Interface Science*, **2020**, 568, 185-197	9.3	25
182	Weak acids as an alternative anti-microbial therapy. *Biofilm*, **2020**, 2, 100019	5.9	19
181	Effect of probiotics on multi-resistant organism colonisation in persons with spinal cord injury: secondary outcome of ProSCIUTTU, a randomised placebo-controlled trial. *Spinal Cord*, **2020**, 58, 755-767	2.7	2
180	Microbially influenced corrosion—any progress?. *Corrosion Science*, **2020**, 170, 108641	6.8	70
179	Discovery of Cephalosporin-3SDiazeniumdiolates That Show Dual Antibacterial and Antibiofilm Effects against Clinical Cystic Fibrosis Isolates and Efficacy in a Murine Respiratory Infection Model. *ACS Infectious Diseases*, **2020**, 6, 1460-1479	5.5	6
178	The SiaABC threonine phosphorylation pathway controls biofilm formation in response to carbon availability in Pseudomonas aeruginosa. *PLoS ONE*, **2020**, 15, e0241019	3.7	2
177	Influence of High Intensity Focused Ultrasound on the Microstructure and c-di-GMP Signaling of Biofilms. *Frontiers in Microbiology*, **2020**, 11, 599407	5.7	2
176	Heritable nanosilver resistance in priority pathogen: a unique genetic adaptation and comparison with ionic silver and antibiotics. *Nanoscale*, **2020**, 12, 2384-2392	7.7	14
175	Laboratory and Field Testing Assessment of Next Generation Biocide-Free, Fouling-Resistant Slippery Coatings. *ACS Applied Polymer Materials*, **2020**, 2, 5147-5162	4.3	4
174	Influence of interspecies interactions on the spatial organization of dual species bacterial communities. *Biofilm*, **2020**, 2, 100035	5.9	4
173	Design, Synthesis and Biological Evaluation of Novel Anthraniloyl-AMP Mimics as PQS Biosynthesis Inhibitors Against Resistance. *Molecules*, **2020**, 25,	4.8	5
172	Nitrite production by ammonia-oxidizing bacteria mediates chloramine decay and resistance in a mixed-species community. *Microbial Biotechnology*, **2020**, 13, 1847-1859	6.3	4
171	Antibiotic Resistance Characteristics of Isolated from Keratitis in Australia and India. *Antibiotics*, **2020**, 9,	4.9	13
170	Biofilm formation inhibition and dispersal of multi-species communities containing ammonia-oxidising bacteria. *Npj Biofilms and Microbiomes*, **2019**, 5, 22	8.2	11

169	High bacterial diversity in nearshore and oceanic biofilms and their influence on larval settlement by Hydroides elegans (Polychaeta). *Environmental Microbiology*, **2019**, 21, 3472	5.2	13
168	Remote control of biofouling by heating PDMS/MnZn ferrite nanocomposites with an alternating magnetic field. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 2713-2720	3.5	0
167	A comparative study on nitric oxide and hypochlorite as a membrane cleaning agent to minimise biofilm growth in a membrane bioreactor (MBR) process. *Biochemical Engineering Journal*, **2019**, 148, 9-15	4.2	7
166	Accessory genome of the multi-drug resistant ocular isolate of Pseudomonas aeruginosa PA34. *PLoS ONE*, **2019**, 14, e0215038	3.7	5
165	Dihydropyrrolones as bacterial quorum sensing inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2019**, 29, 1054-1059	2.9	16
164	Single microcolony diffusion analysis in biofilms. *Npj Biofilms and Microbiomes*, **2019**, 5, 35	8.2	19
163	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. *Spinal Cord*, **2019**, 57, 550-561	2.7	11
162	Nitric Oxide and Iron Signaling Cues Have Opposing Effects on Biofilm Development in Pseudomonas aeruginosa. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	9
161	Nanosilver and the microbiological activity of the particulate solids versus the leached soluble silver. *Nanotoxicology*, **2018**, 12, 263-273	5.3	16
160	A programmable lipid-polymer hybrid nanoparticle system for localized, sustained antibiotic delivery to Gram-positive and Gram-negative bacterial biofilms. *Nanoscale Horizons*, **2018**, 3, 305-311	10.8	18
159	Biofouling control in reverse osmosis by nitric oxide treatment and its impact on the bacterial community. *Journal of Membrane Science*, **2018**, 550, 313-321	9.6	13
158	Nitric Oxide-Mediated Induction of Dispersal in Pseudomonas aeruginosa Biofilms Is Inhibited by Flavohemoglobin Production and Is Enhanced by Imidazole. *Antimicrobial Agents and Chemotherapy* , **2018**, 62,	5.9	11
157	Quantitative imaging and spectroscopic technologies for microbiology. *FEMS Microbiology Letters*, **2018**, 365,	2.9	8
156	Nucleotide sequence analysis of NPS-1 β-lactamase and a novel integron (In1427)-carrying transposon in an MDR Pseudomonas aeruginosa keratitis strain. *Journal of Antimicrobial Chemotherapy*, **2018**, 73, 1724-1726	5.1	7
155	Mesoscopic Energy Minimization Drives Pseudomonas aeruginosa Biofilm Morphologies and Consequent Stratification of Antibiotic Activity Based on Cell Metabolism. *Antimicrobial Agents and Chemotherapy*, **2018**, 62,	5.9	4
154	Design and Synthesis of Lactams Derived from Mucochloric and Mucobromic Acids as Quorum Sensing Inhibitors. *Molecules*, **2018**, 23,	4.8	11
153	Membrane adaptation limitations in underlie sensitivity and the inability to develop significant resistance to conjugated oligoelectrolytes.. *RSC Advances*, **2018**, 8, 10284-10293	3.7	10
152	Draft Genome Sequence of Enterobacter sp. Strain EA-1, an Electrochemically Active Microorganism Isolated from Tropical Sediment. *Genome Announcements*, **2018**, 6,		2

151	Cinnamaldehyde disrupts biofilm formation and swarming motility of Pseudomonas aeruginosa. *Microbiology (United Kingdom)*, **2018**, 164, 1087-1097	2.9	24
150	Insights into Biofilm Dispersal Regulation from the Crystal Structure of the PAS-GGDEF-EAL Region of RbdA from Pseudomonas aeruginosa. *Journal of Bacteriology*, **2018**, 200,	3.5	22
149	Matrix Polysaccharides and SiaD Diguanylate Cyclase Alter Community Structure and Competitiveness of during Dual-Species Biofilm Development with. *MBio*, **2018**, 9,	7.8	17
148	Engineering a light-responsive, quorum quenching biofilm to mitigate biofouling on water purification membranes. *Science Advances*, **2018**, 4, eaau1459	14.3	35
147	Association between possession of ExoU and antibiotic resistance in Pseudomonas aeruginosa. *PLoS ONE*, **2018**, 13, e0204936	3.7	24
146	Comparative genomics of clinical strains of Pseudomonas aeruginosa strains isolated from different geographic sites. *Scientific Reports*, **2018**, 8, 15668	4.9	28
145	Mixed community biofilms and microbially influenced corrosion. *Microbiology Australia*, **2018**, 39, 152	0.8	5
144	Quorum quenching bacteria can be used to inhibit the biofouling of reverse osmosis membranes. *Water Research*, **2017**, 112, 29-37	12.5	49
143	Real Time, Spatial, and Temporal Mapping of the Distribution of c-di-GMP during Biofilm Development. *Journal of Biological Chemistry*, **2017**, 292, 477-487	5.4	17
142	Using Diphenylphosphoryl Azide (DPPA) for the Facile Synthesis of Biodegradable Antiseptic Random Copolypeptides. *Macromolecular Rapid Communications*, **2017**, 38, 1600601	4.8	5
141	Furoxan Nitric Oxide Donors Disperse Pseudomonas aeruginosa Biofilms, Accelerate Growth, and Repress Pyoverdine Production. *ACS Chemical Biology*, **2017**, 12, 2097-2106	4.9	14
140	Measurement of oxygen concentrations in bacterial biofilms using transient state monitoring by single plane illumination microscopy. *Biomedical Physics and Engineering Express*, **2017**, 3, 035020	1.5	11
139	Predation by Bdellovibrio bacteriovorus significantly reduces viability and alters the microbial community composition of activated sludge flocs and granules. *FEMS Microbiology Ecology*, **2017**, 93,	4.3	29
138	Widespread and Indiscriminate Nanosilver Use: Genuine Potential for Microbial Resistance. *ACS Nano*, **2017**, 11, 3438-3445	16.7	54
137	Nanoparticles of Short Cationic Peptidopolysaccharide Self-Assembled by Hydrogen Bonding with Antibacterial Effect against Multidrug-Resistant Bacteria. *ACS Applied Materials & Interfaces*, **2017**, 9, 38288-38303	9.5	53
136	Ectopic colonization of oral bacteria in the intestine drives T1 cell induction and inflammation. *Science*, **2017**, 358, 359-365	33.3	341
135	Urinary catheter-associated microbiota change in accordance with treatment and infection status. *PLoS ONE*, **2017**, 12, e0177633	3.7	24
134	Succession of biofilm communities responsible for biofouling of membrane bio-reactors (MBRs). *PLoS ONE*, **2017**, 12, e0179855	3.7	27

133	Probing the internal micromechanical properties of biofilms by Brillouin imaging. *Npj Biofilms and Microbiomes*, **2017**, 3, 20	8.2	24
132	Low-Dose Nitric Oxide as Targeted Anti-biofilm Adjunctive Therapy to Treat Chronic Pseudomonas aeruginosa Infection in Cystic Fibrosis. *Molecular Therapy*, **2017**, 25, 2104-2116	11.7	106
131	Investigation of the microbial communities colonizing prepainted steel used for roofing and walling. *MicrobiologyOpen*, **2017**, 6, e00425	3.4	4
130	Interactions between microbial community members. *Environmental Microbiology Reports*, **2017**, 9, 471-473	3.7	
129	Mechanistic action of weak acid drugs on biofilms. *Scientific Reports*, **2017**, 7, 4783	4.9	28
128	Onset of Microbial Influenced Corrosion (MIC) in Stainless Steel Exposed to Mixed Species Biofilms from Equatorial Seawater. *Journal of the Electrochemical Society*, **2017**, 164, C532-C538	3.9	13
127	All together now: experimental multispecies biofilm model systems. *Environmental Microbiology*, **2017**, 19, 42-53	5.2	55
126	Next-generation studies of microbial biofilm communities. *Microbial Biotechnology*, **2016**, 9, 677-80	6.3	23
125	Mechanical properties of the superficial biofilm layer determine the architecture of biofilms. *Soft Matter*, **2016**, 12, 5718-26	3.6	38
124	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. *BMC Urology*, **2016**, 16, 18	2.2	15
123	Expression stability of 13 housekeeping genes during carbon starvation of Pseudomonas aeruginosa. *Journal of Microbiological Methods*, **2016**, 127, 182-187	2.8	15
122	Modulating Antimicrobial Activity and Mammalian Cell Biocompatibility with Glucosamine-Functionalized Star Polymers. *Biomacromolecules*, **2016**, 17, 1170-8	6.9	58
121	Effect of microbial community structure on organic removal and biofouling in membrane adsorption bioreactor used in seawater pretreatment. *Chemical Engineering Journal*, **2016**, 294, 30-39	14.7	13
120	Effects of Surface Composition on the Aerosolisation and Dissolution of Inhaled Antibiotic Combination Powders Consisting of Colistin and Rifampicin. *AAPS Journal*, **2016**, 18, 372-84	3.7	36
119	Co-delivery of nitric oxide and antibiotic using polymeric nanoparticles. *Chemical Science*, **2016**, 7, 1016-1027	9.4	125
118	Interspecific diversity reduces and functionally substitutes for intraspecific variation in biofilm communities. *ISME Journal*, **2016**, 10, 846-57	11.9	34
117	Design, synthesis and evaluation of N-aryl-glyoxamide derivatives as structurally novel bacterial quorum sensing inhibitors. *Organic and Biomolecular Chemistry*, **2016**, 14, 680-693	3.9	25
116	SiaA/D Interconnects c-di-GMP and RsmA Signaling to Coordinate Cellular Aggregation of Pseudomonas aeruginosa in Response to Environmental Conditions. *Frontiers in Microbiology*, **2016**, 7, 179	5.7	22

115	Isolation of Bdellovibrio bacteriovorus from a tropical wastewater treatment plant and predation of mixed species biofilms assembled by the native community members. *Environmental Microbiology*, **2016**, 18, 3923-3931	5.2	27
114	In-situ monitoring of biofouling on reverse osmosis membranes: Detection and mechanistic study using electrical impedance spectroscopy. *Journal of Membrane Science*, **2016**, 518, 229-242	9.6	37
113	Mechanical signatures of microbial biofilms in micropillar-embedded growth chambers. *Soft Matter*, **2016**, 12, 5224-32	3.6	6
112	Evaluation of hindered amine light stabilisers and their N -chlorinated derivatives as antibacterial and antifungal additives for thermoset surface coatings. *Progress in Organic Coatings*, **2016**, 99, 330-336	4.8	6
111	Understanding, Monitoring, and Controlling Biofilm Growth in Drinking Water Distribution Systems. *Environmental Science & Technology*, **2016**, 50, 8954-76	10.3	172
110	Biofilms: an emergent form of bacterial life. *Nature Reviews Microbiology*, **2016**, 14, 563-75	22.2	2223
109	CO-Releasing Polymers Exert Antimicrobial Activity. *Biomacromolecules*, **2015**, 16, 2776-86	6.9	59
108	Enhanced Shewanella biofilm promotes bioelectricity generation. *Biotechnology and Bioengineering* , **2015**, 112, 2051-9	4.9	95
107	Nitric oxide treatment for the control of reverse osmosis membrane biofouling. *Applied and Environmental Microbiology*, **2015**, 81, 2515-24	4.8	40
106	Dose-response algorithms for water-borne Pseudomonas aeruginosa folliculitis. *Epidemiology and Infection*, **2015**, 143, 1524-37	4.3	6
105	Synthesis, quorum sensing inhibition and docking studies of 1,5-dihydropyrrol-2-ones. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7366-77	3.4	17
104	The application of nitric oxide to control biofouling of membrane bioreactors. *Microbial Biotechnology*, **2015**, 8, 549-60	6.3	11
103	Hybrids of acylated homoserine lactone and nitric oxide donors as inhibitors of quorum sensing and virulence factors in Pseudomonas aeruginosa. *Organic and Biomolecular Chemistry*, **2015**, 13, 9850-61	3.9	13
102	Indole-based novel small molecules for the modulation of bacterial signalling pathways. *Organic and Biomolecular Chemistry*, **2015**, 13, 925-37	3.9	36
101	Dispersal from Microbial Biofilms. *Microbiology Spectrum*, **2015**, 3,	8.9	12
100	In Situ Mapping of the Mechanical Properties of Biofilms by Particle-tracking Microrheology. *Journal of Visualized Experiments*, **2015**, e53093	1.6	2
99	Dispersal from Microbial Biofilms **2015**, 343-362		2
98	Pseudomonas aeruginosa PAO1 exopolysaccharides are important for mixed species biofilm community development and stress tolerance. *Frontiers in Microbiology*, **2015**, 6, 851	5.7	49

97	Voltammetric profiling of redox-active metabolites expressed by Pseudomonas aeruginosa for diagnostic purposes. *Chemical Communications*, **2015**, 51, 3789-92	5.8	44
96	Quorum sensing-regulated chitin metabolism provides grazing resistance to Vibrio cholerae biofilms. *ISME Journal*, **2015**, 9, 1812-20	11.9	43
95	Community quorum sensing signalling and quenching: microbial granular biofilm assembly. *Npj Biofilms and Microbiomes*, **2015**, 1, 15006	8.2	105
94	Characterization of the archaeal community fouling a membrane bioreactor. *Journal of Environmental Sciences*, **2015**, 29, 115-23	6.4	10
93	Enhancing Bidirectional Electron Transfer of Shewanella oneidensis by a Synthetic Flavin Pathway. *ACS Synthetic Biology*, **2015**, 4, 815-23	5.7	143
92	Solvent optimization for bacterial extracellular matrices: a solution for the insoluble. *RSC Advances*, **2015**, 5, 7469-7478	3.7	10
91	Induction of resistance to S. aureus in an environmental marine biofilm grown in Sydney Harbor, NSW, Australia. *World Journal of Microbiology and Biotechnology*, **2015**, 31, 353-8	4.4	2
90	SBig things in small packages: the genetics of filamentous phage and effects on fitness of their hostS *FEMS Microbiology Reviews*, **2015**, 39, 465-87	15.1	76
89	Novel Inhaled Combination Powder Containing Amorphous Colistin and Crystalline Rifapentine with Enhanced Antimicrobial Activities against Planktonic Cells and Biofilm of Pseudomonas aeruginosa for Respiratory Infections. *Molecular Pharmaceutics*, **2015**, 12, 2594-603	5.6	18
88	Analysis of microbial community composition in a lab-scale membrane distillation bioreactor. *Journal of Applied Microbiology*, **2015**, 118, 940-53	4.7	16
87	Nitric oxide: a key mediator of biofilm dispersal with applications in infectious diseases. *Current Pharmaceutical Design*, **2015**, 21, 31-42	3.3	151
86	Biofilm development and enhanced stress resistance of a model, mixed-species community biofilm. *ISME Journal*, **2014**, 8, 894-907	11.9	208
85	Pseudomonas aeruginosa dose response and bathing water infection. *Epidemiology and Infection*, **2014**, 142, 449-62	4.3	23
84	Bacterial Communication Systems **2014**, 171-188		2
83	The role of quorum sensing signalling in EPS production and the assembly of a sludge community into aerobic granules. *ISME Journal*, **2014**, 8, 1186-97	11.9	245
82	Characterization of biofouling in a lab-scale forward osmosis membrane bioreactor (FOMBR). *Water Research*, **2014**, 58, 141-51	12.5	82
81	The roles of Pseudomonas aeruginosa extracellular polysaccharides in biofouling of reverse osmosis membranes and nitric oxide induced dispersal. *Journal of Membrane Science*, **2014**, 466, 161-172	9.6	23
80	Long-term effect on membrane fouling in a new membrane bioreactor as a pretreatment to seawater desalination. *Bioresource Technology*, **2014**, 165, 60-8	11	22

79	Biofouling in reverse osmosis processes: The roles of flux, crossflow velocity and concentration polarization in biofilm development. *Journal of Membrane Science*, **2014**, 467, 116-125	9.6	33
78	Strain-specific parallel evolution drives short-term diversification during Pseudomonas aeruginosa biofilm formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E1419-27	11.5	61
77	The correlation between biofilm biopolymer composition and membrane fouling in submerged membrane bioreactors. *Biofouling*, **2014**, 30, 1093-110	3.3	20
76	Environmental cues and genes involved in establishment of the superinfective Pf4 phage of Pseudomonas aeruginosa. *Frontiers in Microbiology*, **2014**, 5, 654	5.7	18
75	Dynamic remodeling of microbial biofilms by functionally distinct exopolysaccharides. *MBio*, **2014**, 5, e01536-14	7.8	106
74	Quorum sensing inhibitory activities of surface immobilized antibacterial dihydropyrrolones via click chemistry. *Biomaterials*, **2014**, 35, 2336-45	15.6	31
73	Design, synthesis, and evaluation of fimbrolide-nitric oxide donor hybrids as antimicrobial agents. *Journal of Medicinal Chemistry*, **2013**, 56, 9517-29	8.3	37
72	Dynamics of biofilm formation under different nutrient levels and the effect on biofouling of a reverse osmosis membrane system. *Biofouling*, **2013**, 29, 319-30	3.3	37
71	Optimal dosing regimen of nitric oxide donor compounds for the reduction of Pseudomonas aeruginosa biofilm and isolates from wastewater membranes. *Biofouling*, **2013**, 29, 203-12	3.3	49
70	Synthesis of cephalosporin-3Sdiazeniumdiolates: biofilm dispersing NO-donor prodrugs activated by Ēlactamase. *Chemical Communications*, **2013**, 49, 4791-3	5.8	41
69	A rapid bioluminescence-based test of assimilable organic carbon for seawater. *Desalination*, **2013**, 317, 160-165	10.3	27
68	Microbial activity in biofilter used as a pretreatment for seawater desalination. *Desalination*, **2013**, 309, 254-260	10.3	52
67	Identification of five structurally unrelated quorum-sensing inhibitors of Pseudomonas aeruginosa from a natural-derivative database. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 5629-41	5.9	78
66	Bis-(3S5$)-cyclic dimeric GMP regulates antimicrobial peptide resistance in Pseudomonas aeruginosa. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 2066-75	5.9	73
65	Draft Genome Sequence of Klebsiella pneumoniae Strain KP-1. *Genome Announcements*, **2013**, 1,		6
64	Draft genome sequence of the chronic, nonclonal cystic fibrosis isolate Pseudomonas aeruginosa strain 18A. *Genome Announcements*, **2013**, 1, e0000113		3
63	Mannitol enhances antibiotic sensitivity of persister bacteria in Pseudomonas aeruginosa biofilms. *PLoS ONE*, **2013**, 8, e84220	3.7	113
62	Dynamic modelling of cell death during biofilm development. *Journal of Theoretical Biology*, **2012**, 295, 23-36	2.3	42

61	The impact of flux and spacers on biofilm development on reverse osmosis membranes. *Journal of Membrane Science*, **2012**, 405-406, 219-232	9.6	68
60	Minimal increase in genetic diversity enhances predation resistance. *Molecular Ecology*, **2012**, 21, 1741-53	3.7	19
59	Biofilm dispersal cells of a cystic fibrosis Pseudomonas aeruginosa isolate exhibit variability in functional traits likely to contribute to persistent infection. *FEMS Immunology and Medical Microbiology*, **2012**, 66, 251-64		23
58	Cephalosporin-3?-diazeniumdiolates: Targeted NO-Donor Prodrugs for Dispersing Bacterial Biofilms. *Angewandte Chemie*, **2012**, 124, 9191-9194	3.6	9
57	Cephalosporin-3Sdiazeniumdiolates: targeted NO-donor prodrugs for dispersing bacterial biofilms. *Angewandte Chemie - International Edition*, **2012**, 51, 9057-60	16.4	116
56	The presence and role of bacterial quorum sensing in activated sludge. *Microbial Biotechnology*, **2012**, 5, 621-33	6.3	92
55	Glucose starvation-induced dispersal of Pseudomonas aeruginosa biofilms is cAMP and energy dependent. *PLoS ONE*, **2012**, 7, e42874	3.7	52
54	A risk assessment of Pseudomonas aeruginosa in swimming pools: a review. *Journal of Water and Health*, **2012**, 10, 181-96	2.2	27
53	Immobilization of antibacterial dihydropyrrol-2-ones on functional polymer supports to prevent bacterial infections in vivo. *Antimicrobial Agents and Chemotherapy*, **2012**, 56, 1138-41	5.9	14
52	Should we stay or should we go: mechanisms and ecological consequences for biofilm dispersal. *Nature Reviews Microbiology*, **2011**, 10, 39-50	22.2	550
51	Interfaces between bacterial and eukaryotic "neuroecology". *Integrative and Comparative Biology*, **2011**, 51, 794-806	2.8	18
50	Characterisation and in vitro activities of surface attached dihydropyrrol-2-ones against Gram-negative and Gram-positive bacteria. *Biofouling*, **2010**, 26, 913-21	3.3	20
49	Pseudomonas aeruginosa PAO1 preferentially grows as aggregates in liquid batch cultures and disperses upon starvation. *PLoS ONE*, **2009**, 4, e5513	3.7	135
48	The genomic basis of trophic strategy in marine bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 15527-33	11.5	472
47	Nitric oxide signaling in Pseudomonas aeruginosa biofilms mediates phosphodiesterase activity, decreased cyclic di-GMP levels, and enhanced dispersal. *Journal of Bacteriology*, **2009**, 191, 7333-42	3.5	364
46	Nitric oxide-mediated dispersal in single- and multi-species biofilms of clinically and industrially relevant microorganisms. *Microbial Biotechnology*, **2009**, 2, 370-8	6.3	200
45	The biofilm life cycle and virulence of Pseudomonas aeruginosa are dependent on a filamentous prophage. *ISME Journal*, **2009**, 3, 271-82	11.9	216
44	Role of quorum sensing by Pseudomonas aeruginosa in microbial keratitis and cystic fibrosis. *Microbiology (United Kingdom)*, **2008**, 154, 2184-2194	2.9	62

43	Detection and inhibition of bacterial cell-cell communication. *Methods in Molecular Biology*, **2008**, 431, 55-68	1.4	3
42	Bacterial quorum sensing and interference by naturally occurring biomimics. *Analytical and Bioanalytical Chemistry*, **2007**, 387, 445-53	4.4	77
41	Biofilm differentiation and dispersal in mucoid Pseudomonas aeruginosa isolates from patients with cystic fibrosis. *Microbiology (United Kingdom)*, **2007**, 153, 3264-3274	2.9	85
40	Quorum-sensing regulation of adhesion in Serratia marcescens MG1 is surface dependent. *Journal of Bacteriology*, **2007**, 189, 2702-11	3.5	83
39	Phenotypic diversification and adaptation of Serratia marcescens MG1 biofilm-derived morphotypes. *Journal of Bacteriology*, **2007**, 189, 119-30	3.5	52
38	The role of quorum sensing and the effect of environmental conditions on biofilm formation by strains of Vibrio vulnificus. *Biofouling*, **2006**, 22, 161-172	3.3	22
37	Involvement of nitric oxide in biofilm dispersal of Pseudomonas aeruginosa. *Journal of Bacteriology*, **2006**, 188, 7344-53	3.5	576
36	The role of quorum sensing mediated developmental traits in the resistance of Serratia marcescens biofilms against protozoan grazing. *Environmental Microbiology*, **2006**, 8, 1017-25	5.2	50
35	Grazing resistance of Pseudomonas aeruginosa biofilms depends on type of protective mechanism, developmental stage and protozoan feeding mode. *Environmental Microbiology*, **2005**, 7, 1593-601	5.2	104
34	Modeling the effect of acylated homoserine lactone antagonists in Pseudomonas aeruginosa. *BioSystems*, **2005**, 80, 201-13	1.9	32
33	Theoretical study of molecular determinants involved in signal binding to the TraR protein of Agrobacterium tumefaciens. *Molecules*, **2005**, 10, 1263-71	4.8	7
32	Biofilm formation and sloughing in Serratia marcescens are controlled by quorum sensing and nutrient cues. *Journal of Bacteriology*, **2005**, 187, 3477-85	3.5	210
31	The use of quorum-sensing blockers as therapeutic agents for the control of biofilm-associated infections. *Current Opinion in Investigational Drugs*, **2005**, 6, 178-84		37
30	Pseudomonas aeruginosa with lasI quorum-sensing deficiency during corneal infection. *Investigative Ophthalmology and Visual Science*, **2004**, 45, 1897-903		91
29	Quorum sensing-controlled biofilm development in Serratia liquefaciens MG1. *Journal of Bacteriology*, **2004**, 186, 692-8	3.5	188
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2	Pseudomonas aeruginosaisolates co-incubated withAcanthamoeba castellaniiexhibit phenotypes similar to chronic cystic fibrosis isolates		3
1	The biofilm matrix scaffold of Pseudomonas species contains non-canonically base paired extracellular DNA and RNA		3