Robert J C Mclean

List of Publications by Year
in descending order

93	4,649	101384	106150
papers	citations	36 h-index	65 g-index

98	98	98	4498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Longitudinal characterization of multispecies microbial populations recovered from spaceflight potable water. Npj Biofilms and Microbiomes, 2021, 7, 70.	2.9	9
2	Prebiotic, immuno-stimulating and gut microbiota-modulating effects of Lycium barbarum polysaccharide. Biomedicine and Pharmacotherapy, 2020, 121, 109591.	2.5	105
3	Potential Influences of Bacterial Cell Surfaces and Nano-Sized Cell Fragments on Struvite Biomineralization. Crystals, 2020, 10, 706.	1.0	3
4	Potential biofilm control strategies for extended spaceflight missions. Biofilm, 2020, 2, 100026.	1.5	45
5	Recombinant N-acyl homoserine lactone-Lactonase AiiAQSI-1 Attenuates Aeromonas hydrophila Virulence Factors, Biofilm Formation and Reduces Mortality in Crucian Carp. Marine Drugs, 2019, 17, 499.	2.2	14
6	Use of Whole-Cell Bioassays for Screening Quorum Signaling, Quorum Interference, and Biofilm Dispersion. Methods in Molecular Biology, 2018, 1673, 3-24.	0.4	5
7	Microbiology of the Built Environment in Spacecraft Used for Human Flight. Methods in Microbiology, 2018, , 3-26.	0.4	9
8	Indole production provides limited benefit to Escherichia coli during co-culture with Enterococcus faecalis. Archives of Microbiology, 2017, 199, 145-153.	1.0	6
9	Cadmium ion inhibition of quorum signalling in Chromobacterium violaceum. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overl	0.7	6
10	Effect of feed-gas humidity on nitrogen atmospheric-pressure plasma jet for biological applications. Technology and Health Care, 2016, 24, 943-948.	0.5	1
11	Quorum Signal Inhibitors and Their Potential Use against Fish Diseases. Journal of Aquatic Animal Health, 2016, 28, 91-96.	0.6	11
12	Beneficial biofilms. AIMS Bioengineering, 2015, 2, 437-448.	0.6	11
13	Normal bacterial flora may inhibit Candida albicans biofilm formation by Autoinducer-2. Frontiers in Cellular and Infection Microbiology, 2014, 4, 117.	1.8	7
14	Effect of Bacteriophage Infection in Combination with Tobramycin on the Emergence of Resistance in Escherichia coli and Pseudomonas aeruginosa Biofilms. Viruses, 2014, 6, 3778-3786.	1.5	102
15	A multi-disciplinary, multi-institutional approach to teaching Ethical, Social, Health, Safety, and Environmental Issues in Nanotechnology. , 2014, , .		0
16	Nickel and cadmium ions inhibit quorum sensing and biofilm formation without affecting viability in Burkholderia multivorans. International Biodeterioration and Biodegradation, 2014, 91, 82-87.	1.9	51
17	Bacterial Signaling Ecology and Potential Applications During Aquatic Biofilm Construction. Microbial Ecology, 2014, 68, 24-34.	1.4	10
18	Indole inhibition of N-acylated homoserine lactone-mediated quorum signalling is widespread in Gram-negative bacteria. Microbiology (United Kingdom), 2014, 160, 2464-2473.	0.7	37

#	Article	IF	Citations
19	Carbon and clay nanoparticles induce minimal stress responses in gram negative bacteria and eukaryotic fish cells. Environmental Toxicology, 2014, 29, 961-968.	2.1	20
20	Nanostructures and Nanobacteria. , 2014, , 1-10.		0
21	Fostering Ethical, Social, Environmental, Health, and Safety Awareness in Tomorrowâ€™s Engineers and Technologists. , 2014, , .		0
22	Enhancing Metagenomics Investigations of Microbial Interactions with Biofilm Technology. International Journal of Molecular Sciences, 2013, 14, 22246-22257.	1.8	17
23	Identifying Bacterial Menu Choices from the Host Buffet during Infections. Journal of Bacteriology, 2013, 195, 4989-4990.	1.0	1
24	Indole Production Promotes Escherichia coli Mixed-Culture Growth with Pseudomonas aeruginosa by Inhibiting Quorum Signaling. Applied and Environmental Microbiology, 2012, 78, 411-419.	1.4	105
25	Training the Biofilm Generationâ€"a Tribute to J. W. Costerton. Journal of Bacteriology, 2012, 194, 6706-6711.	1.0	33
26	Bacteriophage Ecology in Escherichia coli and Pseudomonas aeruginosa Mixed-Biofilm Communities. Applied and Environmental Microbiology, 2011, 77, 821-829.	1.4	71
27	Bioassays of Quorum Sensing Compounds Using Agrobacterium tumefaciens and Chromobacterium violaceum. Methods in Molecular Biology, 2011, 692, 3-19.	0.4	52
28	A previously uncharacterized gene, yjfO (bsmA), influences Escherichia coli biofilm formation and stress response. Microbiology (United Kingdom), 2010, 156, 139-147.	0.7	35
29	Quorum sensing: implications on Rhamnolipid biosurfactant production. Biotechnology and Genetic Engineering Reviews, 2010, 27, 159-184.	2.4	131
30	Potential for Largemouth Bass Virus to Associate with and Gain Protection from Bacterial Biofilms. Journal of Aquatic Animal Health, 2010, 22, 95-101.	0.6	5
31	Training the next scientific generation â€“ A tribute to Terrance J. Beveridge. Geobiology, 2008, 6, 190-195.	1.1	0
32	Gramâ€negative outer membrane vesicles: beyond the cell surface. Geobiology, 2008, 6, 214-219.	1.1	122
33	Detection In Vitro of Quorum-Sensing Molecules and Their Inhibitors. Springer Series on Biofilms, 2008, , 39-50.	0.0	7
34	Rheinheimera tangshanensis sp. nov., a rice root-associated bacterium. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 2420-2424.	0.8	42
35	Preparing for Biofilm Studies in the Field. Current Protocols in Microbiology, 2008, 10, Unit 1B.4.1-1B.1.14.	6.5	1
36	Rheinheimera texasensis sp. nov., a halointolerant freshwater oligotroph. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 2376-2380.	0.8	47

#	Article	IF	Citations
37	Characterization of Bacteria in Mixed Biofilm Communities Using Denaturing Gradient Gel Electrophoresis (DGGE). , 2007, Chapter 1, 1E.1.1-1E.1.17.		6
38	Dietary phytochemicals as quorum sensing inhibitors. FÃ¬toterapÃ¬Ã¢, 2007, 78, 302-310.	1.1	293
39	Molecular modeling, synthesis, and screening of new bacterial quorumsensing antagonists. Journal of Microbiology and Biotechnology, 2007, 17, 1598-606.	0.9	10
40	Evidence of autoinducer activity in naturally occurring biofilms. FEMS Microbiology Letters, 2006, 154, 259-263.	0.7	249
41	Microbial survival in space shuttle crash. Icarus, 2006, 181, 323-325.	1.1	13
42	HETEROTROPHIC LIMESTONE-ADHERENT BIOFILM ISOLATES FROM THE EDWARDS AQUIFER, TEXAS. Southwestern Naturalist, 2006, 51, 299-309.	0.1	7
43	Cell-Cell Influences on Bacterial Community Development in Aquatic Biofilms. Applied and Environmental Microbiology, 2005, 71, 8987-8990.	1.4	27
44	A simple screening protocol for the identification of quorum signal antagonists. Journal of Microbiological Methods, 2004, 58, 351-360.	0.7	289
45	NoteThe stringent response genesrelAandspoTare important forEscherichia colibiofilms under slow-growth conditions. Canadian Journal of Microbiology, 2002, 48, 675-680.	0.8	64
46	Bacteriophage T4 multiplication in a glucose-limited Escherichia coli biofilm. Canadian Journal of Microbiology, 2001, 47, 680-684.	0.8	64
47	[16] Phenotype characterization of genetically defined microorganisms and growth of bacteriophage in biofilms. Methods in Enzymology, 2001, 336, 163-174.	0.4	10
48	Effects of community composition and growth rate on aquifer biofilm bacteria and their susceptibility to betadine disinfection. Environmental Microbiology, 2001, 3, 43-52.	1.8	55
49	Bacterial biofilm formation under microgravity conditions. FEMS Microbiology Letters, 2001, 195, 115-119.	0.7	88
50	Bacteriophage T4 multiplication in a glucose-limited Escherichia coli biofilm. Canadian Journal of Microbiology, 2001, 47, 680-684.	0.8	42
51	Alternative origins for nannobacteria-like objects in calcite. Geology, 1999, 27, 347.	2.0	99
52	[20] Laboratory techniques for studying biofilm growth, physiology, and gene expression in flowing systems and porous media. Methods in Enzymology, 1999, 310, 248-264.	0.4	17
53	Influence of metal ions and temperature on the conformation of Escherichia coli K1 capsular polysaccharide. , 1999, 12, 47-52.		6
54	The development of bacterial biofilms on indwelling urethral catheters. World Journal of Urology, 1999, 17, 345-350.	1.2	183

#	Article	IF	Citations
55	PROTEUS MIRABILIS VIABILITY AFTER LITHOTRIPSY OF STRUVITE CALCULI. Journal of Urology, 1999, 162, 1666-1669.	0.2	22
56	Partial leaching as an aid to slurry nebulization for the analysis of soils by ICP-MS with flow injection and mixed-gas plasmas. Canadian Journal of Chemistry, 1999, 77, 409-415.	0.6	11
57	Impact of rpoS Deletion on Escherichia coli Biofilms. Applied and Environmental Microbiology, 1999, 65, 4285-4287.	1.4	162
58	Biofilms on Indwelling Urethral Catheters Produce Quorum-Sensing Signal Molecules In Situ and In Vitro. Applied and Environmental Microbiology, 1998, 64, 3486-3490.	1.4	213
59	Enhancement of leaf fossilization potential by bacterial biofilms. Geology, 1997, 25, 1119.	2.0	64
60	An inexpensive chemostat apparatus for the study of microbial biofilms. Journal of Microbiological Methods, 1997, 30, 125-132.	0.7	28
61	Formation of nesquehonite and other minerals as a consequence of biofilm dehydration. World Journal of Microbiology and Biotechnology, 1997, 13, 25-28.	1.7	12
62	Microbial metal-binding mechanisms and their relation to nuclear waste disposal. Canadian Journal of Microbiology, 1996, 42, 392-400.	0.8	85
63	Expression of a nonagglutinating fimbria by Proteus mirabilis. Infection and Immunity, 1995, 63, 1127-1129.	1.0	36
64	Repeated use of Bacillus subtilis cell walls for copper binding. World Journal of Microbiology and Biotechnology, 1994, 10, 472-474.	1.7	15
65	Glycosaminoglycans and struvite calculi. World Journal of Urology, 1994, 12, 49-51.	1.2	24
66	Surface texturing of multilayer Ag/Cu films by sputter-etching. Vacuum, 1994, 45, 121-125.	1.6	3
67	Biofilms, Naturally Occurring Communities of Immobilized Cells. , 1994, , 289-335.		2
68	Bacterial biofilms: Influence on the pathogenesis, diagnosis and treatment of urinary tract infections. Journal of Antimicrobial Chemotherapy, 1994, 33, 31-41.	1.3	150
69	Unique ability of the Proteus mirabilis capsule to enhance mineral growth in infectious urinary calculi. Infection and Immunity, 1994, 62, 2998-3003.	1.0	100
70	Citrate and urease-induced crystallization in synthetic and human urine. Urological Research, 1993, 21, 109-115.	1.5	34
71	Antibacterial activity of multilayer silverâ€“copper surface films on catheter material. Canadian Journal of Microbiology, 1993, 39, 895-899.	0.8	107
72	Capsule structure of Proteus mirabilis (ATCC 49565). Journal of Bacteriology, 1992, 174, 2172-2177.	1.0	62

#	Article	IF	Citations
73	Modelling biofilm-associated urinary tract infections in animals. International Biodeterioration and Biodegradation, 1992, 30, 201-216.	1.9	4
74	In vitro Inhibition of Struvite Crystal Growth by Acetohydroxamic Acid. British Journal of Urology, 1992, 70, 355-359.	0.1	21
75	Influence of oxidation state on iron binding by Bacillus licheniformis capsule. Applied and Environmental Microbiology, 1992, 58, 405-408.	1.4	38
76	Bacterial colonization behaviour: A new virulence strategy in urinary infections?. Medical Hypotheses, 1991, 36, 269-272.	0.8	7
77	Pyrophosphate inhibition of Proteus mirabilis-induced struvite crystallization in vitro. Clinica Chimica Acta, 1991, 200, 107-117.	0.5	27
78	Proteus Mirabilis Biofilm Protection Against Struvite Crystal Dissolution and its Implications in Struvite Urolithiasis. Journal of Urology, 1991, 146, 1138-1142.	0.2	53
79	Influence of Chondroitin Sulfate, Heparin Sulfate, and Citrate on Proteus Mirabilis-Induced Struvite Crystallization in Vitro. Journal of Urology, 1990, 144, 1267-1271.	0.2	37
80	A simple technique for studying struvite crystal growth in vitro. Urological Research, 1990, 18, 39-43.	1.5	31
81	Effect of extracorporeal shock wave lithotripsy on bacterial viability. Urological Research, 1990, 18, 425-427.	1.5	17
82	The influence of bacteria on struvite crystal habit and its importance in urinary stone formation. Journal of Crystal Growth, 1990, 104, 475-484.	0.7	74
83	Metal-Binding Characteristics of the Gamma-Glutamyl Capsular Polymer of Bacillus licheniformis ATCC 9945. Applied and Environmental Microbiology, 1990, 56, 3671-3677.	1.4	131
84	Preparing for Biofilm Studies in the Field. Current Protocols in Molecular Biology, 1990, 10, 1B.4.1.	2.9	0
85	Observations of the Ultrastructure of Infected Kidney Stones. Journal of Medical Microbiology, 1989, 29, 1-7.	0.7	32
86	The characterization and ultrastructure of two new strains of Butyrivibrio. Canadian Journal of Microbiology, 1989, 35, 274-282.	0.8	5
87	The Ecology and Pathogenicity of Urease-Producing Bacteria in the Urinary Tract. CRC Critical Reviews in Microbiology, 1988, 16, 37-79.	4.8	159
88	An Ecological Study of Infected Urinary Stone Genesis in an Animal Model. British Journal of Urology, 1987, 59, 21-30.	0.1	64
89	Histochemical and biochemical urease localization in the periplasm and outer membrane of two Proteus mirabilis strains. Canadian Journal of Microbiology, 1986, 32, 772-778.	0.8	36
90	Cytochemical Localization of Urease in a Rumen Staphylococcus sp. by Electron Microscopy. Applied and Environmental Microbiology, 1985, 49, 253-255.	1.4	31

#	Article	IF	Citations
91	An in vitro ultrastructural study of infectious kidney stone genesis. Infection and Immunity, 1985, 49, 805-811.	1.0	65
92	LOCALIZATION OF RUMEN WALL-ADHERENT UREOLYTIC BACTERIA. Canadian Journal of Animal Science, 1984, 64, 60-61.	0.7	4
93	Evidence of autoinducer activity in naturally occurring biofilms. , 0, .		10