Joe J Harrison

List of Publications by Citations

46 papers	4,958 citations	30 h-index	48 g-index
48 ext. papers	6,040 ext. citations	7.7 avg, IF	5.64 L-index

#	Paper	IF	Citations
46	Antimicrobial activity of metals: mechanisms, molecular targets and applications. *Nature Reviews Microbiology*, **2013**, 11, 371-84	22.2	1440
45	Multimetal resistance and tolerance in microbial biofilms. *Nature Reviews Microbiology*, **2007**, 5, 928-38	22.2	446
44	The extracellular matrix protects Pseudomonas aeruginosa biofilms by limiting the penetration of tobramycin. *Environmental Microbiology*, **2013**, 15, 2865-78	5.2	244
43	Psl trails guide exploration and microcolony formation in Pseudomonas aeruginosa biofilms. *Nature* , **2013**, 497, 388-391	50.4	229
42	Precision-engineering the Pseudomonas aeruginosa genome with two-step allelic exchange. *Nature Protocols*, **2015**, 10, 1820-41	18.8	200
41	Microtiter susceptibility testing of microbes growing on peg lids: a miniaturized biofilm model for high-throughput screening. *Nature Protocols*, **2010**, 5, 1236-54	18.8	190
40	Biofilm susceptibility to metal toxicity. *Environmental Microbiology*, **2004**, 6, 1220-7	5.2	169
39	Persister cells, the biofilm matrix and tolerance to metal cations in biofilm and planktonic Pseudomonas aeruginosa. *Environmental Microbiology*, **2005**, 7, 981-94	5.2	160
38	The chromosomal toxin gene yafQ is a determinant of multidrug tolerance for Escherichia coli growing in a biofilm. *Antimicrobial Agents and Chemotherapy*, **2009**, 53, 2253-8	5.9	148
37	Copper and quaternary ammonium cations exert synergistic bactericidal and antibiofilm activity against Pseudomonas aeruginosa. *Antimicrobial Agents and Chemotherapy*, **2008**, 52, 2870-81	5.9	121
36	The bacterial response to the chalcogen metalloids Se and Te. *Advances in Microbial Physiology*, **2008**, 53, 1-72	4.4	117
35	The stringent response controls catalases in Pseudomonas aeruginosa and is required for hydrogen peroxide and antibiotic tolerance. *Journal of Bacteriology*, **2013**, 195, 2011-20	3.5	112
34	The use of microscopy and three-dimensional visualization to evaluate the structure of microbial biofilms cultivated in the Calgary Biofilm Device. *Biological Procedures Online*, **2006**, 8, 194-215	8.3	104
33	ChIP-Seq and RNA-Seq reveal an AmrZ-mediated mechanism for cyclic di-GMP synthesis and biofilm development by Pseudomonas aeruginosa. *PLoS Pathogens*, **2014**, 10, e1003984	7.6	103
32	Persister cells mediate tolerance to metal oxyanions in Escherichia coli. *Microbiology (United Kingdom)*, **2005**, 151, 3181-3195	2.9	97
31	Giardia duodenalis induces pathogenic dysbiosis of human intestinal microbiota biofilms. *International Journal for Parasitology*, **2017**, 47, 311-326	4.3	94
30	Clinical utilization of genomics data produced by the international Pseudomonas aeruginosa consortium. *Frontiers in Microbiology*, **2015**, 6, 1036	5.7	94

29	High-throughput metal susceptibility testing of microbial biofilms. *BMC Microbiology*, **2005**, 5, 53	4.5	82
28	Chromosomal antioxidant genes have metal ion-specific roles as determinants of bacterial metal tolerance. *Environmental Microbiology*, **2009**, 11, 2491-509	5.2	80
27	Oligoribonuclease is a central feature of cyclic diguanylate signaling in Pseudomonas aeruginosa. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11359-64	11.5	77
26	Metal resistance in Candida biofilms. *FEMS Microbiology Ecology*, **2006**, 55, 479-91	4.3	68
25	Pseudomonas fluorescensXview of the periodic table. *Environmental Microbiology*, **2008**, 10, 238-50	5.2	55
24	The Cyclic AMP-Vfr Signaling Pathway in Pseudomonas aeruginosa Is Inhibited by Cyclic Di-GMP. *Journal of Bacteriology*, **2015**, 197, 2190-200	3.5	50
23	The GacS sensor kinase controls phenotypic reversion of small colony variants isolated from biofilms of Pseudomonas aeruginosa PA14. *FEMS Microbiology Ecology*, **2007**, 59, 32-46	4.3	47
22	Metal ions may suppress or enhance cellular differentiation in Candida albicans and Candida tropicalis biofilms. *Applied and Environmental Microbiology*, **2007**, 73, 4940-9	4.8	46
21	Differences in biofilm and planktonic cell mediated reduction of metalloid oxyanions. *FEMS Microbiology Letters*, **2004**, 235, 357-362	2.9	41
20	Evolved Aztreonam Resistance Is Multifactorial and Can Produce Hypervirulence in. *MBio*, **2017**, 8,	7.8	40
19	A Biofilm Matrix-Associated Protease Inhibitor Protects Pseudomonas aeruginosa from Proteolytic Attack. *MBio*, **2018**, 9,	7.8	39
18	Phenotypic and metabolic profiling of colony morphology variants evolved from Pseudomonas fluorescens biofilms. *Environmental Microbiology*, **2010**, 12, 1565-77	5.2	37
17	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. *Biofilm*, **2020**, 2, 100010	5.9	31
16	A subpopulation of Candida albicans and Candida tropicalis biofilm cells are highly tolerant to chelating agents. *FEMS Microbiology Letters*, **2007**, 272, 172-81	2.9	29
15	Elevated exopolysaccharide levels in Pseudomonas aeruginosa flagellar mutants have implications for biofilm growth and chronic infections. *PLoS Genetics*, **2020**, 16, e1008848	6	24
14	PelA and PelB proteins form a modification and secretion complex essential for Pel polysaccharide-dependent biofilm formation in. *Journal of Biological Chemistry*, **2017**, 292, 19411-19422	5.4	22
13	Bacterial fitness in chronic wounds appears to be mediated by the capacity for high-density growth, not virulence or biofilm functions. *PLoS Pathogens*, **2019**, 15, e1007511	7.6	20
12	Oligomeric lipoprotein PelC guides Pel polysaccharide export across the outer membrane of. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 2892-2897	11.5	17

11	In-Frame and Unmarked Gene Deletions in Burkholderia cenocepacia via an Allelic Exchange System Compatible with Gateway Technology. *Applied and Environmental Microbiology*, **2015**, 81, 3623-30	4.8	13
10	Different Methods for Culturing Biofilms In Vitro **2011**, 251-266		13
9	Pel Polysaccharide Biosynthesis Requires an Inner Membrane Complex Comprised of PelD, PelE, PelF, and PelG. *Journal of Bacteriology*, **2020**, 202,	3.5	12
8	Effects of the twin-arginine translocase on the structure and antimicrobial susceptibility of Escherichia coli biofilms. *Canadian Journal of Microbiology*, **2005**, 51, 671-83	3.2	12
7	Differences in biofilm and planktonic cell mediated reduction of metalloid oxyanions. *FEMS Microbiology Letters*, **2004**, 235, 357-62	2.9	12
6	Bacterial cyclic diguanylate signaling networks sense temperature. *Nature Communications*, **2021**, 12, 1986	17.4	8
5	PelX is a UDP--acetylglucosamine C4-epimerase involved in Pel polysaccharide-dependent biofilm formation. *Journal of Biological Chemistry*, **2020**, 295, 11949-11962	5.4	6
4	Sensory perception in bacterial cyclic diguanylate signal transduction. *Journal of Bacteriology*, **2021**, JB0043321	3.5	4
3	Sensory Domains That Control Cyclic di-GMP-Modulating Proteins: A Critical Frontier in Bacterial Signal Transduction **2020**, 137-158		4
2	Measuring Cyclic Diguanylate (c-di-GMP)-Specific Phosphodiesterase Activity Using the MANT-c-di-GMP Assay. *Methods in Molecular Biology*, **2017**, 1657, 263-278	1.4	1
1	Natural killer cells kill extracellular Pseudomonas aeruginosa using contact-dependent release of granzymes B and H.. *PLoS Pathogens*, **2022**, 18, e1010325	7.6	0