Mark A Webber

List of Publications by Year
in descending order

85	7,909	87723 38	58464 82
papers	citations	h-index	g-index

101	101	101	11614
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular mechanisms of antibiotic resistance. Nature Reviews Microbiology, 2015, 13, 42-51.	13.6	2,836
2	Fluoroquinolone resistance: mechanisms, impact on bacteria, and role in evolutionary success. Trends in Microbiology, 2014, 22, 438-445.	3.5	725
3	Rapid draft sequencing and real-time nanopore sequencing in a hospital outbreak of Salmonella. Genome Biology, 2015, 16, 114.	3.8	271
4	The AcrAB-TolC efflux system of Salmonella enterica serovar Typhimurium plays a role in pathogenesis. Cellular Microbiology, 2006, 8, 847-856.	1.1	205
5	Complete Genome Sequence and Comparative Metabolic Profiling of the Prototypical Enteroaggregative Escherichia coli Strain 042. PLoS ONE, 2010, 5, e8801.	1.1	165
6	Loss of or inhibition of all multidrug resistance efflux pumps of Salmonella enterica serovar Typhimurium results in impaired ability to form a biofilm. Journal of Antimicrobial Chemotherapy, 2012, 67, 2409-2417.	1.3	158
7	The Antibacterial Activity of Acetic Acid against Biofilm-Producing Pathogens of Relevance to Burns Patients. PLoS ONE, 2015, 10, e0136190.	1.1	142
8	Prolonged treatment of Salmonella enterica serovar Typhimurium with commercial disinfectants selects for multiple antibiotic resistance, increased efflux and reduced invasiveness. Journal of Antimicrobial Chemotherapy, 2007, 60, 947-955.	1.3	139
9	A 96-well plate fluorescence assay for assessment of cellular permeability and active efflux in Salmonella enterica serovar Typhimurium and Escherichia coli. Journal of Antimicrobial Chemotherapy, 2010, 65, 1655-1663.	1.3	135
10	Inhibition of multidrug efflux as a strategy to prevent biofilm formation. Journal of Antimicrobial Chemotherapy, 2014, 69, 673-681.	1.3	133
11	Antibacterial Activity of Blue Light against Nosocomial Wound Pathogens Growing Planktonically and as Mature Biofilms. Applied and Environmental Microbiology, 2016, 82, 4006-4016.	1.4	120
12	Parallel evolutionary pathways to antibiotic resistance selected by biocide exposure. Journal of Antimicrobial Chemotherapy, 2015, 70, 2241-2248.	1.3	116
13	The Acinetobacter baumannii Two-Component System AdeRS Regulates Genes Required for Multidrug Efflux, Biofilm Formation, and Virulence in a Strain-Specific Manner. MBio, 2016, 7, e00430-16.	1.8	115
14	Novel approaches to the treatment of bacterial biofilm infections. British Journal of Pharmacology, 2017, 174, 2237-2246.	2.7	112
15	Absence of Mutations in marRAB or soxRS in acrB -Overexpressing Fluoroquinolone-Resistant Clinical and Veterinary Isolates of Escherichia coli. Antimicrobial Agents and Chemotherapy, 2001, 45, 1550-1552.	1.4	108
16	The Global Consequence of Disruption of the AcrAB-TolC Efflux Pump in Salmonella enterica Includes Reduced Expression of SPI-1 and Other Attributes Required To Infect the Host. Journal of Bacteriology, 2009, 191, 4276-4285.	1.0	107
17	Quinolone resistance in Escherichia coli. Veterinary Research, 2001, 32, 275-284.	1.1	102
18	Phenotypic and Proteomic Characterization of Multiply Antibiotic-Resistant Variants of Salmonella enterica Serovar Typhimurium Selected Following Exposure to Disinfectants. Applied and Environmental Microbiology, 2008, 74, 1508-1516.	1.4	98

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19	Triclosan resistance in Salmonella enterica serovar Typhimurium. Journal of Antimicrobial Chemotherapy, 2008, 62, 83-91.	1.3	94
20	CoronaHiT: high-throughput sequencing of SARS-CoV-2 genomes. Genome Medicine, 2021, 13, 21.	3.6	94
21	Complete Sequence and Molecular Epidemiology of IncK Epidemic Plasmid Encodingbla_{CTX-M-14}. Emerging Infectious Diseases, 2011, 17, 645-652.	2.0	91
22	SadA, a Trimeric Autotransporter from Salmonella enterica Serovar Typhimurium, Can Promote Biofilm Formation and Provides Limited Protection against Infection. Infection and Immunity, 2011, 79, 4342-4352.	1.0	79
23	Increased Usage of Antiseptics Is Associated with Reduced Susceptibility in Clinical Isolates of Staphylococcus aureus. MBio, 2018, 9, .	1.8	76
24	Multiple transmissible genes encoding fluoroquinolone and third-generation cephalosporin resistance co-located in non-typhoidal Salmonella isolated from food-producing animals in China. International Journal of Antimicrobial Agents, 2014, 43, 242-247.	1.1	74
25	Clinically Relevant Mutant DNA Gyrase Alters Supercoiling, Changes the Transcriptome, and Confers Multidrug Resistance. MBio, 2013, 4, .	1.8	73
26	Laboratory adapted <scp>E</scp>scherichia coli<scp>K</scp>â€12 becomes a pathogen of <scp>C</scp>aenorhabditis elegans upon restoration of <scp>O</scp> antigen biosynthesis. Molecular Microbiology, 2013, 87, 939-950.	1.2	72
27	Mechanisms of Resistance in Nontyphoidal Salmonella enterica Strains Exhibiting a Nonclassical Quinolone Resistance Phenotype. Antimicrobial Agents and Chemotherapy, 2009, 53, 3832-3836.	1.4	68
28	Antimicrobial dressings: Comparison of the ability of a panel of dressings to prevent biofilm formation by key burn wound pathogens. Burns, 2015, 41, 1683-1694.	1.1	67
29	Adding functionality with additive manufacturing: Fabrication of titanium-based antibiotic eluting implants. Materials Science and Engineering C, 2016, 64, 407-415.	3.8	67
30	Exposure of Escherichia coli and Salmonella enterica serovar Typhimurium to triclosan induces a species-specific response, including drug detoxification. Journal of Antimicrobial Chemotherapy, 2009, 64, 973-985.	1.3	65
31	Exposure of Salmonella enterica Serovar Typhimurium to High Level Biocide Challenge Can Select Multidrug Resistant Mutants in a Single Step. PLoS ONE, 2011, 6, e22833.	1.1	65
32	Clinically Relevant Plasmid-Host Interactions Indicate that Transcriptional and Not Genomic Modifications Ameliorate Fitness Costs of Klebsiella pneumoniae Carbapenemase-Carrying Plasmids. MBio, 2018, 9, .	1.8	64
33	Contribution of Mutation at Amino Acid 45 of AcrR to acrB Expression and Ciprofloxacin Resistance in Clinical and Veterinary Escherichia coli Isolates. Antimicrobial Agents and Chemotherapy, 2005, 49, 4390-4392.	1.4	60
34	Persistence of Transferable Extended-Spectrum-Î²-Lactamase Resistance in the Absence of Antibiotic Pressure. Antimicrobial Agents and Chemotherapy, 2012, 56, 4703-4706.	1.4	58
35	Resistance and Tolerance to Tropodithietic Acid, an Antimicrobial in Aquaculture, Is Hard To Select. Antimicrobial Agents and Chemotherapy, 2011, 55, 1332-1337.	1.4	55
36	Antimicrobial peptide coatings for hydroxyapatite: electrostatic and covalent attachment of antimicrobial peptides to surfaces. Journal of the Royal Society Interface, 2017, 14, 20160657.	1.5	45

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37	Exposure of Salmonella biofilms to antibiotic concentrations rapidly selects resistance with collateral tradeoffs. Npj Biofilms and Microbiomes, 2021, 7, 3.	2.9	42
38	Proteomic analysis of triclosan resistance in Salmonella enterica serovar Typhimurium. Journal of Antimicrobial Chemotherapy, 2008, 62, 92-97.	1.3	41
39	Inactivation or inhibition of AcrAB-TolC increases resistance of carbapenemase-producing Enterobacteriaceae to carbapenems. Journal of Antimicrobial Chemotherapy, 2016, 71, 1510-1519.	1.3	40
40	Surface Finish has a Critical Influence on Biofilm Formation and Mammalian Cell Attachment to Additively Manufactured Prosthetics. ACS Biomaterials Science and Engineering, 2017, 3, 1616-1626.	2.6	40
41	Identification of binding residues between periplasmic adapter protein (PAP) and RND efflux pumps explains PAP-pump promiscuity and roles in antimicrobial resistance. PLoS Pathogens, 2019, 15, e1008101.	2.1	32
42	MarA, RamA, and SoxS as Mediators of the Stress Response: Survival at a Cost. Frontiers in Microbiology, 2020, 11, 828.	1.5	32
43	TraDIS-Xpress: a high-resolution whole-genome assay identifies novel mechanisms of triclosan action and resistance. Genome Research, 2020, 30, 239-249.	2.4	32
44	Large-scale sequencing of SARS-CoV-2 genomes from one region allows detailed epidemiology and enables local outbreak management. Microbial Genomics, 2021, 7, .	1.0	31
45	Prevalence of decreased susceptibility to triclosan in Salmonella enterica isolates from animals and humans and association with multiple drug resistance. International Journal of Antimicrobial Agents, 2010, 36, 247-251.	1.1	30
46	Functional genomics to identify the factors contributing to successful persistence and global spread of an antibiotic resistance plasmid. BMC Microbiology, 2014, 14, 168.	1.3	27
47	A call for action to the biomaterial community to tackle antimicrobial resistance. Biomaterials Science, 2020, 8, 4951-4974.	2.6	26
48	Novel Ciprofloxacin-Resistant, Nalidixic Acid-Susceptible Mutant of Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2002, 46, 2276-2278.	1.4	25
49	Quinolone-resistant gyrase mutants demonstrate decreased susceptibility to triclosan. Journal of Antimicrobial Chemotherapy, 2017, 72, 2755-2763.	1.3	25
50	Contribution of Different Mechanisms to Ciprofloxacin Resistance in Salmonella spp.. Frontiers in Microbiology, 2021, 12, 663731.	1.5	24
51	Medium Plays a Role in Determining Expression of acrB , marA , and soxS in Escherichia coli. Antimicrobial Agents and Chemotherapy, 2006, 50, 1071-1074.	1.4	23
52	Reduced Fluoroquinolone Susceptibility inSalmonella entericaIsolates from Travelers, Finland. Emerging Infectious Diseases, 2009, 15, 809-812.	2.0	23
53	Post Processing of 3D Printed Metal Scaffolds: a Preliminary Study of Antimicrobial Efficiency. Procedia Manufacturing, 2020, 47, 1106-1112.	1.9	20
54	Overexpression of marA, soxS and acrB in veterinary isolates of Salmonella enterica rarely correlates with cyclohexane tolerance. Journal of Antimicrobial Chemotherapy, 2006, 57, 673-679.	1.3	19

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55	The Escherichia coli MarA protein regulates the ycgZâ€ymgABC operon to inhibit biofilm formation. Molecular Microbiology, 2019, 112, 1609-1625.	1.2	17
56	AlbaTraDIS: Comparative analysis of large datasets from parallel transposon mutagenesis experiments. PLoS Computational Biology, 2020, 16, e1007980.	1.5	17
57	A genome-wide analysis of Escherichia coli responses to fosfomycin using TraDIS-Xpress reveals novel roles for phosphonate degradation and phosphate transport systems. Journal of Antimicrobial Chemotherapy, 2020, 75, 3144-3151.	1.3	15
58	Experiences in fosfomycin susceptibility testing and resistance mechanism determination in Escherichia coli from urinary tract infections in the UK. Journal of Medical Microbiology, 2019, 68, 161-168.	0.7	14
59	Efflux Impacts Intracellular Accumulation Only in Actively Growing Bacterial Cells. MBio, 2021, 12, e0260821.	1.8	14
60	Measuring the Activity of Active Efflux in Gram-Negative Bacteria. Methods in Molecular Biology, 2010, 642, 173-180.	0.4	13
61	A 16â€year Longitudinal Cohort Study of Incidence and Bacteriology of Necrotising Fasciitis in England. World Journal of Surgery, 2020, 44, 2580-2591.	0.8	12
62	Opening Pandora's box: High-level resistance to antibiotics of last resort in Gram-negative bacteria from Nigeria. Journal of Global Antimicrobial Resistance, 2020, 21, 211-217.	0.9	11
63	A whole-genome screen identifies Salmonella enterica serovar Typhi genes involved in fluoroquinolone susceptibility. Journal of Antimicrobial Chemotherapy, 2020, 75, 2516-2525.	1.3	11
64	Chlorhexidine gluconate usage is associated with antiseptic tolerance in staphylococci from the neonatal intensive care unit. JAC-Antimicrobial Resistance, 2021, 3, dlab173.	0.9	11
65	Potentiation of curing by a broad-host-range self-transmissible vector for displacing resistance plasmids to tackle AMR. PLoS ONE, 2020, 15, e0225202.	1.1	10
66	Massively parallel transposon mutagenesis identifies temporally essential genes for biofilm formation in Escherichia coli. Microbial Genomics, 2021, 7, .	1.0	10
67	Activity of faropenem and imipenem for ciprofloxacin-resistant bacteria. Journal of Antimicrobial Chemotherapy, 2003, 52, 500-502.	1.3	9
68	High level fluoroquinolone resistance in Escherichia coli isolatedfrom animals in Turkey is due to multiple mechanisms. Turkish Journal of Veterinary and Animal Sciences, 2016, 40, 214-218.	0.2	9
69	Emergence of ciprofloxacin heteroresistance in foodborne Salmonella enterica serovar Agona. Journal of Antimicrobial Chemotherapy, 2020, 75, 2773-2779.	1.3	9
70	Mobilization of Tn1721-like structure harboring blaCTX-M-27 between P1-like bacteriophage in Salmonella and plasmids in Escherichia coli in China. Veterinary Microbiology, 2021, 253, 108944.	0.8	9
71	SARS-CoV-2 variants of concern dominate in Lahore, Pakistan in April 2021. Microbial Genomics, 2021, 7, .	1.0	9
72	The Relationship Between Bacterial Multidrug Efflux Pumps and Biofilm Formation. , 2016, , 651-663.		8

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73	A design approach to facilitate selective attachment of bacteria and mammalian cells to additively manufactured implants. Additive Manufacturing, 2020, 36, 101528.	1.7	7
74	Transmission of plasmid-borne and chromosomal blaCTX-M-64 among Escherichia coli and Salmonella isolates from food-producing animals via ISEcp1-mediated transposition. Journal of Antimicrobial Chemotherapy, 2020, 75, 1424-1427.	1.3	7
75	Chemical biology-whole genome engineering datasets predict new antibacterial combinations. Microbial Genomics, 2021, 7, .	1.0	7
76	Donor plasmids for phenotypically neutral chromosomal gene insertions in Enterobacteriaceae. Microbiology (United Kingdom), 2020, 166, 1115-1120.	0.7	6
77	Bathing babies: current practices in UK neonatal intensive care units. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2021, 106, 227-227.	1.4	5
78	Catheter sepsis and antisepsis: matters of life, death, obscurity and resistance. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2018, 103, F94-F96.	1.4	4
79	Cefotaxime Exposure Selects Mutations within the CA-Domain of envZ Which Promote Antibiotic Resistance but Repress Biofilm Formation in Salmonella. Microbiology Spectrum, 2022, 10, e0214521.	1.2	4
80	Long-read sequencing for identification of insertion sites in large transposon mutant libraries. Scientific Reports, 2022, 12, 3546.	1.6	3
81	Antibiotic Resistance inEscherichia coli. , 0, , 374-386.		1
82	Response to Letter to Editor: â€˜Limitations of In Vitro Antimicrobial Dressings Studyâ€™. Burns, 2016, 42, 1148.	1.1	1
83	Repeated exposure of nosocomial pathogens to silver does not select for silver resistance but does impact ciprofloxacin susceptibility. Acta Biomaterialia, 2021, 134, 760-773.	4.1	1
84	Understanding selection of antimicrobial resistance in biofilms through experimental evolution. Access Microbiology, 2020, 2, .	0.2	0
85	The ecology and antimicrobial resistance of Staphylococci colonising neonates. Access Microbiology, 2022, 4, .	0.2	0