

Mark J Sutton

List of Publications by Year in descending order

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95
papers

3,042
citations

147801
31
h-index

189892
50
g-index

103
all docs

103
docs citations

103
times ranked

3911
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of bacterial efflux pumps in biofilm formation. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 2003-2020.	3.0	300
2	Mechanisms of Increased Resistance to Chlorhexidine and Cross-Resistance to Colistin following Exposure of <i>Klebsiella pneumoniae</i> Clinical Isolates to Chlorhexidine. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	199
3	The <i>Acinetobacter baumannii</i> Two-Component System AdeRS Regulates Genes Required for Multidrug Efflux, Biofilm Formation, and Virulence in a Strain-Specific Manner. <i>MBio</i> , 2016, 7, e00430-16.	4.1	115
4	A fast impedance-based antimicrobial susceptibility test. <i>Nature Communications</i> , 2020, 11, 5328.	12.8	92
5	Bacterial biofilm formation on indwelling urethral catheters. <i>Letters in Applied Microbiology</i> , 2019, 68, 277-293.	2.2	84
6	Current Advances in Developing Inhibitors of Bacterial Multidrug Efflux Pumps. <i>Current Medicinal Chemistry</i> , 2016, 23, 1062-1081.	2.4	78
7	Surface decontamination of surgical instruments: an ongoing dilemma. <i>Journal of Hospital Infection</i> , 2006, 63, 432-438.	2.9	77
8	Proteolytic inactivation of the bovine spongiform encephalopathy agent. <i>Biochemical and Biophysical Research Communications</i> , 2004, 317, 1165-1170.	2.1	71
9	Thermally triggered release of the bacteriophage endolysin CHAPK and the bacteriocin lysostaphin for the control of methicillin resistant <i>Staphylococcus aureus</i> (MRSA). <i>Journal of Controlled Release</i> , 2017, 245, 108-115.	9.9	65
10	Complex interactions of <i>Klebsiella pneumoniae</i> with the host immune system in a <i>Galleria mellonella</i> infection model. <i>Journal of Medical Microbiology</i> , 2013, 62, 1790-1798.	1.8	64
11	Effectiveness of Efflux Pump Inhibitors as Biofilm Disruptors and Resistance Breakers in Gram-Negative (ESKAPEE) Bacteria. <i>Antibiotics</i> , 2019, 8, 229.	3.7	62
12	<i>Acinetobacter baumannii</i> virulence is enhanced in <i>Galleria mellonella</i> following biofilm adaptation. <i>Journal of Medical Microbiology</i> , 2012, 61, 470-477.	1.8	57
13	Varying activity of chlorhexidine-based disinfectants against <i>Klebsiella pneumoniae</i> clinical isolates and adapted strains. <i>Journal of Hospital Infection</i> , 2016, 93, 42-48.	2.9	57
14	Evaluation of antibiotic efficacy against infections caused by planktonic or biofilm cultures of <i>Pseudomonas aeruginosa</i> and <i>Klebsiella pneumoniae</i> in <i>Galleria mellonella</i> . <i>International Journal of Antimicrobial Agents</i> , 2015, 46, 538-545.	2.5	56
15	Methods to Minimize the Risks of Creutzfeldt-Jakob Disease Transmission by Surgical Procedures: Where to Set the Standard?. <i>Clinical Infectious Diseases</i> , 2006, 43, 757-764.	5.8	55
16	Retention of virulence following adaptation to colistin in <i>Acinetobacter baumannii</i> reflects the mechanism of resistance. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 2209-2216.	3.0	54
17	Cold atmospheric pressure plasma elimination of clinically important single- and mixed-species biofilms. <i>International Journal of Antimicrobial Agents</i> , 2017, 49, 375-378.	2.5	53
18	Characterization of Pre-Antibiotic Era <i>Klebsiella pneumoniae</i> Isolates with Respect to Antibiotic/Disinfectant Susceptibility and Virulence in <i>Galleria mellonella</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 3966-3972.	3.2	52

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19	Ultra-fast electronic detection of antimicrobial resistance genes using isothermal amplification and Thin Film Transistor sensors. <i>Biosensors and Bioelectronics</i> , 2017, 96, 281-287.	10.1	51
20	Re-engineering the target specificity of clostridial neurotoxins - a route to novel therapeutics. <i>Neurotoxicity Research</i> , 2006, 9, 101-107.	2.7	48
21	Poly(N-isopropylacrylamide-co-allylamine) (PNIPAM-co-ALA) nanospheres for the thermally triggered release of Bacteriophage K. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 437-441.	4.3	47
22	Real-time microfluidic recombinase polymerase amplification for the toxin B gene of <i>Clostridium difficile</i> on a SlipChip platform. <i>Analyst</i> , 2015, 140, 258-264.	3.5	47
23	Overcoming Intrinsic and Acquired Resistance Mechanisms Associated with the Cell Wall of Gram-Negative Bacteria. <i>Antibiotics</i> , 2020, 9, 623.	3.7	45
24	Cleanability of dental instruments – implications of residual protein and risks from Creutzfeldt-Jakob disease. <i>British Dental Journal</i> , 2007, 203, 395-401.	0.6	42
25	The Crystal Structure of C3stau2 from <i>Staphylococcus aureus</i> and Its Complex with NAD. <i>Journal of Biological Chemistry</i> , 2003, 278, 45924-45930.	3.4	40
26	Evaluation of the effectiveness of hydrogen-peroxide-based disinfectants on biofilms formed by Gram-negative pathogens. <i>Journal of Hospital Infection</i> , 2014, 87, 227-233.	2.9	39
27	A quantitative assessment of residual protein levels on dental instruments reprocessed by manual, ultrasonic and automated cleaning methods. <i>British Dental Journal</i> , 2011, 210, E14-E14.	0.6	37
28	A Programmable Digital Microfluidic Assay for the Simultaneous Detection of Multiple Anti-Microbial Resistance Genes. <i>Micromachines</i> , 2017, 8, 111.	2.9	37
29	Comparative Analysis of 37 <i>Acinetobacter</i> Bacteriophages. <i>Viruses</i> , 2018, 10, 5.	3.3	37
30	Establishment of a multi-species biofilm model to evaluate chlorhexidine efficacy. <i>Journal of Hospital Infection</i> , 2016, 92, 154-160.	2.9	35
31	Fluoxetine and thioridazine inhibit efflux and attenuate crystalline biofilm formation by <i>Proteus mirabilis</i> . <i>Scientific Reports</i> , 2017, 7, 12222.	3.3	34
32	<i>Pseudomonas aeruginosa</i> adapts to octenidine in the laboratory and a simulated clinical setting, leading to increased tolerance to chlorhexidine and other biocides. <i>Journal of Hospital Infection</i> , 2018, 100, e23-e29.	2.9	33
33	Triaryl Benzimidazoles as a New Class of Antibacterial Agents against Resistant Pathogenic Microorganisms. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 6045-6059.	6.4	31
34	Growth media and assay plate material can impact on the effectiveness of cationic biocides and antibiotics against different bacterial species. <i>Letters in Applied Microbiology</i> , 2018, 66, 368-377.	2.2	31
35	Molecular recognition of an ADP-ribosylating <i>Clostridium botulinum</i> C3 exoenzyme by RalA GTPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5357-5362.	7.1	29
36	Mapping the Dynamic Functions and Structural Features of AcrB Efflux Pump Transporter Using Accelerated Molecular Dynamics Simulations. <i>Scientific Reports</i> , 2018, 8, 10470.	3.3	29

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37	SmvA is an important efflux pump for cationic biocides in <i>Klebsiella pneumoniae</i> and other Enterobacteriaceae. <i>Scientific Reports</i> , 2019, 9, 1344.	3.3	28
38	Tyrosine-1290 of tetanus neurotoxin plays a key role in its binding to gangliosides and functional binding to neurones. <i>FEBS Letters</i> , 2001, 493, 45-49.	2.8	26
39	Decontamination of prion protein (BSE301V) using a genetically engineered protease. <i>Journal of Hospital Infection</i> , 2009, 72, 65-70.	2.9	26
40	Characterisation and genome sequence of the lytic <i>Acinetobacter baumannii</i> bacteriophage vB_AbaS_Loki. <i>PLoS ONE</i> , 2017, 12, e0172303.	2.5	26
41	Minor sequence modifications in temporin B cause drastic changes in antibacterial potency and selectivity by fundamentally altering membrane activity. <i>Scientific Reports</i> , 2019, 9, 1385.	3.3	26
42	Implications for Creutzfeldt-Jakob Disease (CJD) in Dentistry: a Review of Current Knowledge. <i>Journal of Dental Research</i> , 2008, 87, 511-519.	5.2	25
43	Computational Study Reveals the Molecular Mechanism of the Interaction between the Efflux Inhibitor PAI ² N and the AdeB Transporter from <i>Acinetobacter baumannii</i> . <i>ACS Omega</i> , 2017, 2, 3002-3016.	3.5	25
44	Simple and rapid sample preparation system for the molecular detection of antibiotic resistant pathogens in human urine. <i>Biomedical Microdevices</i> , 2016, 18, 18.	2.8	24
45	Controllable hydrogen bonded self-association for the formation of multifunctional antimicrobial materials. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4694-4700.	5.8	24
46	Temporin L and aurein 2.5 have identical conformations but subtly distinct membrane and antibacterial activities. <i>Scientific Reports</i> , 2019, 9, 10934.	3.3	22
47	Preparation of specifically activatable endopeptidase derivatives of <i>Clostridium botulinum</i> toxins type A, B, and C and their applications. <i>Protein Expression and Purification</i> , 2005, 40, 31-41.	1.3	21
48	An overview of bacterial efflux pumps and computational approaches to study efflux pump inhibitors. <i>Future Medicinal Chemistry</i> , 2016, 8, 195-210.	2.3	21
49	Switching on the activity of 1,5-diaryl-pyrrole derivatives against drug-resistant ESKAPE bacteria: Structure-activity relationships and mode of action studies. <i>European Journal of Medicinal Chemistry</i> , 2019, 178, 500-514.	5.5	21
50	Novel pyridyl nitrofuranyl isoxazolines show antibacterial activity against multiple drug resistant <i>Staphylococcus</i> species. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 3971-3979.	3.0	20
51	C8-Linked Pyrrolobenzodiazepine Monomers with Inverted Building Blocks Show Selective Activity against Multidrug Resistant Gram-Positive Bacteria. <i>ACS Infectious Diseases</i> , 2018, 4, 158-174.	3.8	20
52	C3 exoenzyme from <i>Clostridium botulinum</i> : structure of a tetragonal crystal form and a reassessment of NAD-induced flexure. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1502-1505.	2.5	19
53	Revisiting unexploited antibiotics in search of new antibacterial drug candidates: the case of β -actinorhodin. <i>Scientific Reports</i> , 2017, 7, 17419.	3.3	19
54	Synthetic Antimicrobial Peptide Tuning Permits Membrane Disruption and Interpeptide Synergy. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 418-424.	4.9	18

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55	Schiff bases of sulphonamides as a new class of antifungal agent against multidrug-resistant <i>Candida auris</i> . <i>MicrobiologyOpen</i> , 2021, 10, e12118.	3.0	18
56	Removal of Contaminant DNA by Combined UV-EMA Treatment Allows Low Copy Number Detection of Clinically Relevant Bacteria Using Pan-Bacterial Real-Time PCR. <i>PLoS ONE</i> , 2015, 10, e0132954.	2.5	18
57	Retention of virulence following colistin adaptation in <i>Klebsiella pneumoniae</i> is strain-dependent rather than associated with specific mutations. <i>Journal of Medical Microbiology</i> , 2017, 66, 959-964.	1.8	17
58	Identification of two dihydrodipicolinate synthase isoforms from <i>Pseudomonas aeruginosa</i> that differ in allosteric regulation. <i>FEBS Journal</i> , 2020, 287, 386-400.	4.7	15
59	Evaluation of a Library of FDA-Approved Drugs for Their Ability To Potentiate Antibiotics against Multidrug-Resistant Gram-Negative Pathogens. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	14
60	A pleurocidin analogue with greater conformational flexibility, enhanced antimicrobial potency and in vivo therapeutic efficacy. <i>Communications Biology</i> , 2020, 3, 697.	4.4	14
61	New Broad-Spectrum Antibiotics Containing a Pyrrolobenzodiazepine Ring with Activity against Multidrug-Resistant Gram-Negative Bacteria. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6941-6958.	6.4	14
62	Mutations in the two component regulator systems PmrAB and PhoPQ give rise to increased colistin resistance in <i>Citrobacter</i> and <i>Enterobacter</i> spp.. <i>Journal of Medical Microbiology</i> , 2020, 69, 521-529.	1.8	14
63	Analysis of the substrate recognition domain determinants of Botulinum Type B toxin using Phage Display. <i>Toxicon</i> , 2005, 46, 446-453.	1.6	13
64	Quantitative measurement of the efficacy of protein removal by cleaning formulations; comparative evaluation of prion-directed cleaning chemistries. <i>Journal of Hospital Infection</i> , 2010, 74, 144-151.	2.9	12
65	Reaction-based indicator displacement assay (RIA) for the development of a triggered release system capable of biofilm inhibition. <i>Chemical Communications</i> , 2019, 55, 15129-15132.	4.1	12
66	Long-Term Exposure to Octenidine in a Simulated Sink Trap Environment Results in Selection of <i>Pseudomonas aeruginosa</i> , <i>Citrobacter</i> , and <i>Enterobacter</i> Isolates with Mutations in Efflux Pump Regulators. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	12
67	Genomic Diversity of Bacteriophages Infecting the Genus <i>Acinetobacter</i> . <i>Viruses</i> , 2022, 14, 181.	3.3	12
68	Development of photoactivable phenanthroline-based manganese(II) CO-Releasing molecules (PhotoCORMs) active against ESKAPE bacteria and bacterial biofilms. <i>European Journal of Medicinal Chemistry</i> , 2021, 213, 113172.	5.5	11
69	Bioassay Studies Support the Potential for Iatrogenic Transmission of Variant Creutzfeldt Jakob Disease through Dental Procedures. <i>PLoS ONE</i> , 2012, 7, e49850.	2.5	11
70	Contribution of the efflux pump AcrAB-TolC to the tolerance of chlorhexidine and other biocides in <i>Klebsiella</i> spp.. <i>Journal of Medical Microbiology</i> , 2022, 71, .	1.8	11
71	The effectiveness of sodium dichloroisocyanurate treatments against <i>Clostridium difficile</i> spores contaminating stainless steel. <i>American Journal of Infection Control</i> , 2011, 39, 199-205.	2.3	10
72	Thermostable adenylate kinase technology: a new process indicator and its use as a validation tool for the reprocessing of surgical instruments. <i>Journal of Hospital Infection</i> , 2010, 74, 137-143.	2.9	9

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73	Recent advances in therapeutic delivery systems of bacteriophage and bacteriophage-encoded endolysins. <i>Therapeutic Delivery</i> , 2017, 8, 543-556.	2.2	9
74	Genome Sequence of vB_AbaS_TRS1, a Viable Prophage Isolated from <i>Acinetobacter baumannii</i> Strain A118. <i>Genome Announcements</i> , 2016, 4, .	0.8	8
75	Antimicrobial Constituents from <i>Machaerium</i> Pers.: Inhibitory Activities and Synergism of Machaeriols and Machaeridiols against Methicillin-Resistant <i>Staphylococcus aureus</i> , Vancomycin-Resistant <i>Enterococcus faecium</i> , and Permeabilized Gram-Negative Pathogens. <i>Molecules</i> , 2020, 25, 6000.	3.8	8
76	Synthesis, microbiological evaluation and structure activity relationship analysis of linezolid analogues with different C5-acylamino substituents. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 49, 116397.	3.0	8
77	<i>Pseudomonas aeruginosa</i> adapts to octenidine via a combination of efflux and membrane remodelling. <i>Communications Biology</i> , 2021, 4, 1058.	4.4	8
78	Impacts of Metabolism and Organic Acids on Cell Wall Composition and <i>Pseudomonas aeruginosa</i> Susceptibility to Membrane Active Antimicrobials. <i>ACS Infectious Diseases</i> , 2021, 7, 2310-2323.	3.8	7
79	Mutations in SilS and CusS/OmpC represent different routes to achieve high level silver ion tolerance in <i>Klebsiella pneumoniae</i> . <i>BMC Microbiology</i> , 2022, 22, 113.	3.3	7
80	Evaluation of Novel Process Indicators for Rapid Monitoring of Hydrogen Peroxide Decontamination Processes. <i>PDA Journal of Pharmaceutical Science and Technology</i> , 2017, 71, 393-404.	0.5	6
81	Misâ€œannotations of a promising antibiotic target in highâ€œpriority gramâ€œnegative pathogens. <i>FEBS Letters</i> , 2020, 594, 1453-1463.	2.8	6
82	Temporin B Forms Hetero-Oligomers with Temporin L, Modifies Its Membrane Activity, and Increases the Cooperativity of Its Antibacterial Pharmacodynamic Profile. <i>Biochemistry</i> , 2022, 61, 1029-1040.	2.5	5
83	A role for His155 in binding of human prion peptide144â€œ167 to immobilised prion protein. <i>Biochemical and Biophysical Research Communications</i> , 2007, 362, 695-699.	2.1	4
84	Application of rapid read-out cleaning indicators for improved process control in hospital sterile services departments. <i>Journal of Hospital Infection</i> , 2013, 84, 59-65.	2.9	4
85	Evaluating the level of nitroreductase activity in clinical <i>Klebsiella pneumoniae</i> isolates to support strategies for nitro drug and prodrug development. <i>International Journal of Antimicrobial Agents</i> , 2019, 54, 538-546.	2.5	4
86	N1-Benzofused Modification of Fluoroquinolones Reduces Activity Against Gram-Negative Bacteria. <i>ACS Omega</i> , 2020, 5, 11923-11934.	3.5	4
87	Summary of: A quantitative assessment of residual protein levels on dental instruments reprocessed by manual, ultrasonic and automated cleaning methods. <i>British Dental Journal</i> , 2011, 210, 418-419.	0.6	3
88	Visualization of Phage Genomic Data: Comparative Genomics and Publication-Quality Diagrams. <i>Methods in Molecular Biology</i> , 2018, 1681, 239-260.	0.9	3
89	Evaluation of efficacy of prion reduction filters using blood from an endogenously infected 263K scrapie hamster model. <i>Transfusion</i> , 2015, 55, 2390-2397.	1.6	2
90	Study into the kinetic properties and surface attachment of a thermostable adenylate kinase. <i>Biochemistry and Biophysics Reports</i> , 2015, 1, 1-7.	1.3	2

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91	Development of a rapid phenotypic test on a microfluidic device for carbapenemase detection using the chromogenic compound nitrocefin. <i>Diagnostic Microbiology and Infectious Disease</i> , 2020, 96, 114926.	1.8	2
92	Erratum to "Proteolytic inactivation of the bovine spongiform encephalopathy agent" [Biochem. Biophys. Res. Commun. 317 (2004) 1165–1170]. <i>Biochemical and Biophysical Research Communications</i> , 2004, 321, 1069.	2.1	0
93	Readily achievable. <i>British Dental Journal</i> , 2011, 211, 152-152.	0.6	0
94	Profiling protein expression in <i>Klebsiella pneumoniae</i> with a carbohydrate-based covalent probe. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 30, 115900.	3.0	0
95	Whole Genome Sequencing of <i>Staphylococcus aureus</i> SA-1199B Reveals Previously Unreported Mutations. <i>International Journal of Antimicrobial Agents</i> , 2021, 57, 106225.	2.5	0