

Mark J Sutton

List of Publications by Year in descending order

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95
papers

3,042
citations

147566

31
h-index

189595

50
g-index

103
all docs

103
docs citations

103
times ranked

3911
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Genomic Diversity of Bacteriophages Infecting the Genus <i>Acinetobacter</i> . <i>Viruses</i> , 2022, 14, 181. | 1.5 | 12 |
| 2 | 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, . | 0.7 | 11 |
| 3 | 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. | 1.3 | 7 |
| 4 | 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. | 1.2 | 5 |
| 5 | Profiling protein expression in <i>Klebsiella pneumoniae</i> with a carbohydrate-based covalent probe. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 30, 115900. | 1.4 | 0 |
| 6 | Whole Genome Sequencing of <i>Staphylococcus aureus</i> SA-1199B Reveals Previously Unreported Mutations. <i>International Journal of Antimicrobial Agents</i> , 2021, 57, 106225. | 1.1 | 0 |
| 7 | Development of photoactivable phenanthroline-based manganese(I) CO-Releasing molecules (PhotoCORMs) active against ESKAPE bacteria and bacterial biofilms. <i>European Journal of Medicinal Chemistry</i> , 2021, 213, 113172. | 2.6 | 11 |
| 8 | 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, . | 1.4 | 12 |
| 9 | 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. | 1.8 | 7 |
| 10 | Schiff bases of sulphonamides as a new class of antifungal agent against multidrug-resistant <i>Candida auris</i> . <i>MicrobiologyOpen</i> , 2021, 10, e1218. | 1.2 | 18 |
| 11 | 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. | 1.4 | 8 |
| 12 | <i>Pseudomonas aeruginosa</i> adapts to octenidine via a combination of efflux and membrane remodelling. <i>Communications Biology</i> , 2021, 4, 1058. | 2.0 | 8 |
| 13 | Identification of two dihydrodipicolinate synthase isoforms from <i>Pseudomonas aeruginosa</i> that differ in allosteric regulation. <i>FEBS Journal</i> , 2020, 287, 386-400. | 2.2 | 15 |
| 14 | Development of a rapid phenotypic test on a microfluidic device for carbapenemase detection using the chromogenic compound nitrocefim. <i>Diagnostic Microbiology and Infectious Disease</i> , 2020, 96, 114926. | 0.8 | 2 |
| 15 | A pleurocidin analogue with greater conformational flexibility, enhanced antimicrobial potency and in vivo therapeutic efficacy. <i>Communications Biology</i> , 2020, 3, 697. | 2.0 | 14 |
| 16 | A fast impedance-based antimicrobial susceptibility test. <i>Nature Communications</i> , 2020, 11, 5328. | 5.8 | 92 |
| 17 | Overcoming Intrinsic and Acquired Resistance Mechanisms Associated with the Cell Wall of Gram-Negative Bacteria. <i>Antibiotics</i> , 2020, 9, 623. | 1.5 | 45 |
| 18 | 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. | 1.7 | 8 |

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|----|---|-----|-----------|
| 19 | Controllable hydrogen bonded self-association for the formation of multifunctional antimicrobial materials. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4694-4700. | 2.9 | 24 |
| 20 | N1-Benzofused Modification of Fluoroquinolones Reduces Activity Against Gram-Negative Bacteria. <i>ACS Omega</i> , 2020, 5, 11923-11934. | 1.6 | 4 |
| 21 | New Broad-Spectrum Antibiotics Containing a Pyrrolbenzodiazepine Ring with Activity against Multidrug-Resistant Gram-Negative Bacteria. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6941-6958. | 2.9 | 14 |
| 22 | Synthetic Antimicrobial Peptide Tuning Permits Membrane Disruption and Interpeptide Synergy. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 418-424. | 2.5 | 18 |
| 23 | Misâ€œannotations of a promising antibiotic target in highâ€œpriority gramâ€œnegative pathogens. <i>FEBS Letters</i> , 2020, 594, 1453-1463. | 1.3 | 6 |
| 24 | 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. | 0.7 | 14 |
| 25 | 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. | 1.1 | 4 |
| 26 | Temporin L and aurein 2.5 have identical conformations but subtly distinct membrane and antibacterial activities. <i>Scientific Reports</i> , 2019, 9, 10934. | 1.6 | 22 |
| 27 | 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. | 2.6 | 21 |
| 28 | 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, . | 1.4 | 14 |
| 29 | Bacterial biofilm formation on indwelling urethral catheters. <i>Letters in Applied Microbiology</i> , 2019, 68, 277-293. | 1.0 | 84 |
| 30 | SmvA is an important efflux pump for cationic biocides in <i>Klebsiella pneumoniae</i> and other Enterobacteriaceae. <i>Scientific Reports</i> , 2019, 9, 1344. | 1.6 | 28 |
| 31 | 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. | 1.6 | 26 |
| 32 | Effectiveness of Efflux Pump Inhibitors as Biofilm Disruptors and Resistance Breakers in Gram-Negative (ESKAPEE) Bacteria. <i>Antibiotics</i> , 2019, 8, 229. | 1.5 | 62 |
| 33 | 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. | 2.2 | 12 |
| 34 | Role of bacterial efflux pumps in biofilm formation. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 2003-2020. | 1.3 | 300 |
| 35 | <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. | 1.4 | 33 |
| 36 | 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. | 1.0 | 31 |

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|----|---|-----|-----------|
| 37 | 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. | 1.8 | 20 |
| 38 | Visualization of Phage Genomic Data: Comparative Genomics and Publication-Quality Diagrams. <i>Methods in Molecular Biology</i> , 2018, 1681, 239-260. | 0.4 | 3 |
| 39 | Mapping the Dynamic Functions and Structural Features of AcrB Efflux Pump Transporter Using Accelerated Molecular Dynamics Simulations. <i>Scientific Reports</i> , 2018, 8, 10470. | 1.6 | 29 |
| 40 | Comparative Analysis of 37 Acinetobacter Bacteriophages. <i>Viruses</i> , 2018, 10, 5. | 1.5 | 37 |
| 41 | Cold atmospheric pressure plasma elimination of clinically important single- and mixed-species biofilms. <i>International Journal of Antimicrobial Agents</i> , 2017, 49, 375-378. | 1.1 | 53 |
| 42 | 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. | 5.3 | 51 |
| 43 | Novel pyridyl nitrofuranyl isoxazolines show antibacterial activity against multiple drug resistant Staphylococcus species. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 3971-3979. | 1.4 | 20 |
| 44 | Fluoxetine and thioridazine inhibit efflux and attenuate crystalline biofilm formation by <i>Proteus mirabilis</i> . <i>Scientific Reports</i> , 2017, 7, 12222. | 1.6 | 34 |
| 45 | 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. | 0.3 | 6 |
| 46 | Revisiting unexploited antibiotics in search of new antibacterial drug candidates: the case of β -actinorhodin. <i>Scientific Reports</i> , 2017, 7, 17419. | 1.6 | 19 |
| 47 | Triaryl Benzimidazoles as a New Class of Antibacterial Agents against Resistant Pathogenic Microorganisms. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 6045-6059. | 2.9 | 31 |
| 48 | Recent advances in therapeutic delivery systems of bacteriophage and bacteriophage-encoded endolysins. <i>Therapeutic Delivery</i> , 2017, 8, 543-556. | 1.2 | 9 |
| 49 | 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. | 1.6 | 25 |
| 50 | 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, . | 1.4 | 199 |
| 51 | 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. | 4.8 | 65 |
| 52 | A Programmable Digital Microfluidic Assay for the Simultaneous Detection of Multiple Anti-Microbial Resistance Genes. <i>Micromachines</i> , 2017, 8, 111. | 1.4 | 37 |
| 53 | Characterisation and genome sequence of the lytic <i>Acinetobacter baumannii</i> bacteriophage vB_AbaS_Loki. <i>PLoS ONE</i> , 2017, 12, e0172303. | 1.1 | 26 |
| 54 | 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. | 0.7 | 17 |

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|----|---|-----|-----------|
| 55 | Current Advances in Developing Inhibitors of Bacterial Multidrug Efflux Pumps. <i>Current Medicinal Chemistry</i> , 2016, 23, 1062-1081. | 1.2 | 78 |
| 56 | 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. | 1.8 | 115 |
| 57 | 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 |
| 58 | Simple and rapid sample preparation system for the molecular detection of antibiotic resistant pathogens in human urine. <i>Biomedical Microdevices</i> , 2016, 18, 18. | 1.4 | 24 |
| 59 | An overview of bacterial efflux pumps and computational approaches to study efflux pump inhibitors. <i>Future Medicinal Chemistry</i> , 2016, 8, 195-210. | 1.1 | 21 |
| 60 | Establishment of a multi-species biofilm model to evaluate chlorhexidine efficacy. <i>Journal of Hospital Infection</i> , 2016, 92, 154-160. | 1.4 | 35 |
| 61 | 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. | 1.4 | 57 |
| 62 | Evaluation of efficacy of prion reduction filters using blood from an endogenously infected 263K scrapie hamster model. <i>Transfusion</i> , 2015, 55, 2390-2397. | 0.8 | 2 |
| 63 | Study into the kinetic properties and surface attachment of a thermostable adenylate kinase. <i>Biochemistry and Biophysics Reports</i> , 2015, 1, 1-7. | 0.7 | 2 |
| 64 | 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. | 1.1 | 56 |
| 65 | 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. | 1.3 | 54 |
| 66 | 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. | 1.4 | 52 |
| 67 | 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. | 2.0 | 47 |
| 68 | 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. | 1.7 | 47 |
| 69 | 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. | 1.1 | 18 |
| 70 | 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. | 1.4 | 39 |
| 71 | 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. | 0.7 | 64 |
| 72 | 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. | 1.4 | 4 |

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|----|--|-----|-----------|
| 73 | Acinetobacter baumannii virulence is enhanced in Galleria mellonella following biofilm adaptation. Journal of Medical Microbiology, 2012, 61, 470-477. | 0.7 | 57 |
| 74 | Bioassay Studies Support the Potential for Iatrogenic Transmission of Variant Creutzfeldt Jakob Disease through Dental Procedures. PLoS ONE, 2012, 7, e49850. | 1.1 | 11 |
| 75 | A quantitative assessment of residual protein levels on dental instruments reprocessed by manual, ultrasonic and automated cleaning methods. British Dental Journal, 2011, 210, E14-E14. | 0.3 | 37 |
| 76 | The effectiveness of sodium dichloroisocyanurate treatments against Clostridium difficile spores contaminating stainless steel. American Journal of Infection Control, 2011, 39, 199-205. | 1.1 | 10 |
| 77 | Summary of: A quantitative assessment of residual protein levels on dental instruments reprocessed by manual, ultrasonic and automated cleaning methods. British Dental Journal, 2011, 210, 418-419. | 0.3 | 3 |
| 78 | Readily achievable. British Dental Journal, 2011, 211, 152-152. | 0.3 | 0 |
| 79 | Thermostable adenylate kinase technology: a new process indicator and its use as a validation tool for the reprocessing of surgical instruments. Journal of Hospital Infection, 2010, 74, 137-143. | 1.4 | 9 |
| 80 | Quantitative measurement of the efficacy of protein removal by cleaning formulations; comparative evaluation of prion-directed cleaning chemistries. Journal of Hospital Infection, 2010, 74, 144-151. | 1.4 | 12 |
| 81 | Decontamination of prion protein (BSE301V) using a genetically engineered protease. Journal of Hospital Infection, 2009, 72, 65-70. | 1.4 | 26 |
| 82 | Implications for Creutzfeldt-Jakob Disease (CJD) in Dentistry: a Review of Current Knowledge. Journal of Dental Research, 2008, 87, 511-519. | 2.5 | 25 |
| 83 | A role for His155 in binding of human prion peptide144-167 to immobilised prion protein. Biochemical and Biophysical Research Communications, 2007, 362, 695-699. | 1.0 | 4 |
| 84 | Cleanability of dental instruments – implications of residual protein and risks from Creutzfeldt-Jakob disease. British Dental Journal, 2007, 203, 395-401. | 0.3 | 42 |
| 85 | Surface decontamination of surgical instruments: an ongoing dilemma. Journal of Hospital Infection, 2006, 63, 432-438. | 1.4 | 77 |
| 86 | Re-engineering the target specificity of clostridial neurotoxins - a route to novel therapeutics. Neurotoxicity Research, 2006, 9, 101-107. | 1.3 | 48 |
| 87 | Methods to Minimize the Risks of Creutzfeldt-Jakob Disease Transmission by Surgical Procedures: Where to Set the Standard?. Clinical Infectious Diseases, 2006, 43, 757-764. | 2.9 | 55 |
| 88 | Molecular recognition of an ADP-ribosylating Clostridium botulinum C3 exoenzyme by RalA GTPase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5357-5362. | 3.3 | 29 |
| 89 | Preparation of specifically activatable endopeptidase derivatives of Clostridium botulinum toxins type A, B, and C and their applications. Protein Expression and Purification, 2005, 40, 31-41. | 0.6 | 21 |
| 90 | Analysis of the substrate recognition domain determinants of Botulinum Type B toxin using Phage Display. Toxicon, 2005, 46, 446-453. | 0.8 | 13 |

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|----|--|-----|-----------|
| 91 | C3 exoenzyme from Clostridium botulinum: structure of a tetragonal crystal form and a reassessment of NAD-induced flexure. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1502-1505. | 2.5 | 19 |
| 92 | Proteolytic inactivation of the bovine spongiform encephalopathy agent. Biochemical and Biophysical Research Communications, 2004, 317, 1165-1170. | 1.0 | 71 |
| 93 | Erratum to "Proteolytic inactivation of the bovine spongiform encephalopathy agent" [Biochem. Biophys. Res. Commun. 317 (2004) 1165-1170]. Biochemical and Biophysical Research Communications, 2004, 321, 1069. | 1.0 | 0 |
| 94 | The Crystal Structure of C3stau2 from Staphylococcus aureus and Its Complex with NAD. Journal of Biological Chemistry, 2003, 278, 45924-45930. | 1.6 | 40 |
| 95 | Tyrosine-1290 of tetanus neurotoxin plays a key role in its binding to gangliosides and functional binding to neurones. FEBS Letters, 2001, 493, 45-49. | 1.3 | 26 |