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	Genomic Diversity of Bacteriophages Infecting the Genus Acinetobacter. Viruses, 2022, 14, 181.	3.3	12
2	Contribution of the efflux pump AcrAB-TolC to the tolerance of chlorhexidine and other biocides in Klebsiella spp.. Journal of Medical Microbiology, 2022, 71, .	1.8	11
3	Mutations in SilS and CusS/OmpC represent different routes to achieve high level silver ion tolerance in Klebsiella pneumoniae. BMC Microbiology, 2022, 22, 113.	3.3	7
4	Temporin B Forms Hetero-Oligomers with Temporin L, Modifies Its Membrane Activity, and Increases the Cooperativity of Its Antibacterial Pharmacodynamic Profile. Biochemistry, 2022, 61, 1029-1040.	2.5	5
5	Profiling protein expression in Klebsiella pneumoniae with a carbohydrate-based covalent probe. Bioorganic and Medicinal Chemistry, 2021, 30, 115900.	3.0	0
6	Whole Genome Sequencing of Staphylococcus aureus SA-1199B Reveals Previously Unreported Mutations. International Journal of Antimicrobial Agents, 2021, 57, 106225.	2.5	0
7	Development of photoactivable phenanthroline-based manganese(I) CO-Releasing molecules (PhotoCORMs) active against ESKAPE bacteria and bacterial biofilms. European Journal of Medicinal Chemistry, 2021, 213, 113172.	5.5	11
8	Long-Term Exposure to Octenidine in a Simulated Sink Trap Environment Results in Selection of Pseudomonas aeruginosa, Citrobacter , and Enterobacter Isolates with Mutations in Efflux Pump Regulators. Applied and Environmental Microbiology, 2021, 87, .	3.1	12
9	Impacts of Metabolism and Organic Acids on Cell Wall Composition and Pseudomonas aeruginosa Susceptibility to Membrane Active Antimicrobials. ACS Infectious Diseases, 2021, 7, 2310-2323.	3.8	7
10	Schiff bases of sulphonamides as a new class of antifungal agent against multidrugâ€resistant Candida auris. MicrobiologyOpen, 2021, 10, e1218.	3.0	18
11	Synthesis, microbiological evaluation and structure activity relationship analysis of linezolid analogues with different C5-acylamino substituents. Bioorganic and Medicinal Chemistry, 2021, 49, 116397.	3.0	8
12	Pseudomonas aeruginosa adapts to octenidine via a combination of efflux and membrane remodelling. Communications Biology, 2021, 4, 1058.	4.4	8
13	Identification of two dihydrodipicolinate synthase isoforms from Pseudomonas aeruginosa that differ in allosteric regulation. FEBS Journal, 2020, 287, 386-400.	4.7	15
14	Development of a rapid phenotypic test on a microfluidic device for carbapenemase detection using the chromogenic compound nitrocefin. Diagnostic Microbiology and Infectious Disease, 2020, 96, 114926.	1.8	2
15	A pleurocidin analogue with greater conformational flexibility, enhanced antimicrobial potency and in vivo therapeutic efficacy. Communications Biology, 2020, 3, 697.	4.4	14
16	A fast impedance-based antimicrobial susceptibility test. Nature Communications, 2020, 11, 5328.	12.8	92
17	Overcoming Intrinsic and Acquired Resistance Mechanisms Associated with the Cell Wall of Gram-Negative Bacteria. Antibiotics, 2020, 9, 623.	3.7	45
18	Antimicrobial Constituents from Machaerium Pers.: Inhibitory Activities and Synergism of Machaeriols and Machaeridiols against Methicillin-Resistant Staphylococcus aureus, Vancomycin-Resistant Enterococcus faecium, and Permeabilized Gram-Negative Pathogens. Molecules, 2020, 25, 6000.	3.8	8

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19	Controllable hydrogen bonded self-association for the formation of multifunctional antimicrobial materials. Journal of Materials Chemistry B, 2020, 8, 4694-4700.	5.8	24
20	N1-Benzofused Modification of Fluoroquinolones Reduces Activity Against Gram-Negative Bacteria. ACS Omega, 2020, 5, 11923-11934.	3.5	4
21	New Broad-Spectrum Antibiotics Containing a Pyrrolobenzodiazepine Ring with Activity against Multidrug-Resistant Gram-Negative Bacteria. Journal of Medicinal Chemistry, 2020, 63, 6941-6958.	6.4	14
22	Synthetic Antimicrobial Peptide Tuning Permits Membrane Disruption and Interpeptide Synergy. ACS Pharmacology and Translational Science, 2020, 3, 418-424.	4.9	18
23	Misâ€annotations of a promising antibiotic target in highâ€priority gramâ€negative pathogens. FEBS Letters, 2020, 594, 1453-1463.	2.8	6
24	Mutations in the two component regulator systems PmrAB and PhoPQ give rise to increased colistin resistance in Citrobacter and Enterobacter spp.. Journal of Medical Microbiology, 2020, 69, 521-529.	1.8	14
25	Evaluating the level of nitroreductase activity in clinical Klebsiella pneumoniae isolates to support strategies for nitro drug and prodrug development. International Journal of Antimicrobial Agents, 2019, 54, 538-546.	2.5	4
26	Temporin L and aurein 2.5 have identical conformations but subtly distinct membrane and antibacterial activities. Scientific Reports, 2019, 9, 10934.	3.3	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. European Journal of Medicinal Chemistry, 2019, 178, 500-514.	5.5	21
28	Evaluation of a Library of FDA-Approved Drugs for Their Ability To Potentiate Antibiotics against Multidrug-Resistant Gram-Negative Pathogens. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	14
29	Bacterial biofilm formation on indwelling urethral catheters. Letters in Applied Microbiology, 2019, 68, 277-293.	2.2	84
30	SmvA is an important efflux pump for cationic biocides in Klebsiella pneumoniae and other Enterobacteriaceae. Scientific Reports, 2019, 9, 1344.	3.3	28
31	Minor sequence modifications in temporin B cause drastic changes in antibacterial potency and selectivity by fundamentally altering membrane activity. Scientific Reports, 2019, 9, 1385.	3.3	26
32	Effectiveness of Efflux Pump Inhibitors as Biofilm Disruptors and Resistance Breakers in Gram-Negative (ESKAPEE) Bacteria. Antibiotics, 2019, 8, 229.	3.7	62
33	Reaction-based indicator displacement assay (RIA) for the development of a triggered release system capable of biofilm inhibition. Chemical Communications, 2019, 55, 15129-15132.	4.1	12
34	Role of bacterial efflux pumps in biofilm formation. Journal of Antimicrobial Chemotherapy, 2018, 73, 2003-2020.	3.0	300
35	Pseudomonas aeruginosa adapts to octenidine in the laboratory and a simulated clinical setting, leading to increased tolerance to chlorhexidine and other biocides. Journal of Hospital Infection, 2018, 100, e23-e29.	2.9	33
36	Growth media and assay plate material can impact on the effectiveness of cationic biocides and antibiotics against different bacterial species. Letters in Applied Microbiology, 2018, 66, 368-377.	2.2	31

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37	C8-Linked Pyrrolobenzodiazepine Monomers with Inverted Building Blocks Show Selective Activity against Multidrug Resistant Gram-Positive Bacteria. ACS Infectious Diseases, 2018, 4, 158-174.	3.8	20
38	Visualization of Phage Genomic Data: Comparative Genomics and Publication-Quality Diagrams. Methods in Molecular Biology, 2018, 1681, 239-260.	0.9	3
39	Mapping the Dynamic Functions and Structural Features of AcrB Efflux Pump Transporter Using Accelerated Molecular Dynamics Simulations. Scientific Reports, 2018, 8, 10470.	3.3	29
40	Comparative Analysis of 37 Acinetobacter Bacteriophages. Viruses, 2018, 10, 5.	3.3	37
41	Cold atmospheric pressure plasma elimination of clinically important single- and mixed-species biofilms. International Journal of Antimicrobial Agents, 2017, 49, 375-378.	2.5	53
42	Ultra-fast electronic detection of antimicrobial resistance genes using isothermal amplification and Thin Film Transistor sensors. Biosensors and Bioelectronics, 2017, 96, 281-287.	10.1	51
43	Novel pyridyl nitrofuranyl isoxazolines show antibacterial activity against multiple drug resistant Staphylococcus species. Bioorganic and Medicinal Chemistry, 2017, 25, 3971-3979.	3.0	20
44	Fluoxetine and thioridazine inhibit efflux and attenuate crystalline biofilm formation by Proteus mirabilis. Scientific Reports, 2017, 7, 12222.	3.3	34
45	Evaluation of Novel Process Indicators for Rapid Monitoring of Hydrogen Peroxide Decontamination Processes. PDA Journal of Pharmaceutical Science and Technology, 2017, 71, 393-404.	0.5	6
46	Revisiting unexploited antibiotics in search of new antibacterial drug candidates: the case of Î³-actinorhodin. Scientific Reports, 2017, 7, 17419.	3.3	19
47	Triaryl Benzimidazoles as a New Class of Antibacterial Agents against Resistant Pathogenic Microorganisms. Journal of Medicinal Chemistry, 2017, 60, 6045-6059.	6.4	31
48	Recent advances in therapeutic delivery systems of bacteriophage and bacteriophage-encoded endolysins. Therapeutic Delivery, 2017, 8, 543-556.	2.2	9
49	Computational Study Reveals the Molecular Mechanism of the Interaction between the Efflux Inhibitor PAÎ²N and the AdeB Transporter from Acinetobacter baumannii. ACS Omega, 2017, 2, 3002-3016.	3.5	25
50	Mechanisms of Increased Resistance to Chlorhexidine and Cross-Resistance to Colistin following Exposure of Klebsiella pneumoniae Clinical Isolates to Chlorhexidine. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	199
51	Thermally triggered release of the bacteriophage endolysin CHAPK and the bacteriocin lysostaphin for the control of methicillin resistant Staphylococcus aureus (MRSA). Journal of Controlled Release, 2017, 245, 108-115.	9.9	65
52	A Programmable Digital Microfluidic Assay for the Simultaneous Detection of Multiple Anti-Microbial Resistance Genes. Micromachines, 2017, 8, 111.	2.9	37
53	Characterisation and genome sequence of the lytic Acinetobacter baumannii bacteriophage vB_AbaS_Loki. PLoS ONE, 2017, 12, e0172303.	2.5	26
54	Retention of virulence following colistin adaptation in Klebsiella pneumoniae is strain-dependent rather than associated with specific mutations. Journal of Medical Microbiology, 2017, 66, 959-964.	1.8	17

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55	Current Advances in Developing Inhibitors of Bacterial Multidrug Efflux Pumps. Current Medicinal Chemistry, 2016, 23, 1062-1081.	2.4	78
56	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.	4.1	115
57	Genome Sequence of vB_AbaS_TRS1, a Viable Prophage Isolated from Acinetobacter baumannii Strain A118. Genome Announcements, 2016, 4, .	0.8	8
58	Simple and rapid sample preparation system for the molecular detection of antibiotic resistant pathogens in human urine. Biomedical Microdevices, 2016, 18, 18.	2.8	24
59	An overview of bacterial efflux pumps and computational approaches to study efflux pump inhibitors. Future Medicinal Chemistry, 2016, 8, 195-210.	2.3	21
60	Establishment of a multi-species biofilm model to evaluate chlorhexidine efficacy. Journal of Hospital Infection, 2016, 92, 154-160.	2.9	35
61	Varying activity of chlorhexidine-based disinfectants against Klebsiella pneumoniae clinical isolates and adapted strains. Journal of Hospital Infection, 2016, 93, 42-48.	2.9	57
62	Evaluation of efficacy of prion reduction filters using blood from an endogenously infected 263K scrapie hamster model. Transfusion, 2015, 55, 2390-2397.	1.6	2
63	Study into the kinetic properties and surface attachment of a thermostable adenylate kinase. Biochemistry and Biophysics Reports, 2015, 1, 1-7.	1.3	2
64	Evaluation of antibiotic efficacy against infections caused by planktonic or biofilm cultures of Pseudomonas aeruginosa and Klebsiella pneumoniae in Galleria mellonella. International Journal of Antimicrobial Agents, 2015, 46, 538-545.	2.5	56
65	Retention of virulence following adaptation to colistin in Acinetobacter baumannii reflects the mechanism of resistance. Journal of Antimicrobial Chemotherapy, 2015, 70, 2209-2216.	3.0	54
66	Characterization of Pre-Antibiotic Era Klebsiella pneumoniae Isolates with Respect to Antibiotic/Disinfectant Susceptibility and Virulence in Galleria mellonella. Antimicrobial Agents and Chemotherapy, 2015, 59, 3966-3972.	3.2	52
67	Poly(N-isopropylacrylamide-co-allylamine) (PNIPAM-co-ALA) nanospheres for the thermally triggered release of Bacteriophage K. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 96, 437-441.	4.3	47
68	Real-time microfluidic recombinase polymerase amplification for the toxin B gene of Clostridium difficile on a SlipChip platform. Analyst, The, 2015, 140, 258-264.	3.5	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. PLoS ONE, 2015, 10, e0132954.	2.5	18
70	Evaluation of the effectiveness of hydrogen-peroxide-based disinfectants on biofilms formed byÂGram-negative pathogens. Journal of Hospital Infection, 2014, 87, 227-233.	2.9	39
71	Complex interactions of Klebsiella pneumoniae with the host immune system in a Galleria mellonella infection model. Journal of Medical Microbiology, 2013, 62, 1790-1798.	1.8	64
72	Application of rapid read-out cleaning indicators for improved process control in hospital sterile services departments. Journal of Hospital Infection, 2013, 84, 59-65.	2.9	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.	1.8	57
74	Bioassay Studies Support the Potential for Iatrogenic Transmission of Variant Creutzfeldt Jakob Disease through Dental Procedures. PLoS ONE, 2012, 7, e49850.	2.5	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.	0.6	37
76	The effectiveness of sodium dichloroisocyanurate treatments against Clostridium difficile spores contaminating stainless steel. American Journal of Infection Control, 2011, 39, 199-205.	2.3	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.	0.6	3
78	Readily achievable. British Dental Journal, 2011, 211, 152-152.	0.6	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.	2.9	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.	2.9	12
81	Decontamination of prion protein (BSE301V) using a genetically engineered protease. Journal of Hospital Infection, 2009, 72, 65-70.	2.9	26
82	Implications for Creutzfeldt-Jakob Disease (CJD) in Dentistry: a Review of Current Knowledge. Journal of Dental Research, 2008, 87, 511-519.	5.2	25
83	A role for His155 in binding of human prion peptide144â€“167 to immobilised prion protein. Biochemical and Biophysical Research Communications, 2007, 362, 695-699.	2.1	4
84	Cleanability of dental instruments â€“ implications of residual protein and risks from Creutzfeldt-Jakob disease. British Dental Journal, 2007, 203, 395-401.	0.6	42
85	Surface decontamination of surgical instruments: an ongoing dilemma. Journal of Hospital Infection, 2006, 63, 432-438.	2.9	77
86	Re-engineering the target specificity of clostridial neurotoxins - a route to novel therapeutics. Neurotoxicity Research, 2006, 9, 101-107.	2.7	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.	5.8	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.	7.1	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.	1.3	21
90	Analysis of the substrate recognition domain determinants of Botulinum Type B toxin using Phage Display. Toxicon, 2005, 46, 446-453.	1.6	13

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91	C3 exoenzyme fromClostridium 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.	2.1	71
93	Erratum to â€œProteolytic inactivation of the bovine spongiform encephalopathy agentâ€•[Biochem. Biophys. Res. Commun. 317 (2004) 1165â€“1170]. Biochemical and Biophysical Research Communications, 2004, 321, 1069.	2.1	0
94	The Crystal Structure of C3stau2 from Staphylococcus aureus and Its Complex with NAD. Journal of Biological Chemistry, 2003, 278, 45924-45930.	3.4	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.	2.8	26