Glenn W Kaatz

List of Publications by Year
in descending order

101 papers	6,030 citations	43973 48 h-index	76769 74 g-index
102 all docs	102 docs citations	102 times ranked	4950 citing authors

#	Article	IF	Citations
1	Antibacterial and resistance modifying activity of. Phytochemistry, 2004, 65, 3249-3254.	1.4	309
2	Multidrug Resistance in Staphylococcus aureus Due to Overexpression of a Novel Multidrug and Toxin Extrusion (MATE) Transport Protein. Antimicrobial Agents and Chemotherapy, 2005, 49, 1857-1864.	1.4	241
3	A novel inhibitor of multidrug efflux pumps in Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 2003, 51, 13-17.	1.3	186
4	Phenothiazines and Thioxanthenes Inhibit Multidrug Efflux Pump Activity in Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2003, 47, 719-726.	1.4	184
5	Efflux-Related Resistance to Norfloxacin, Dyes, and Biocides in Bloodstream Isolates of Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2007, 51, 3235-3239.	1.4	179
6	Multidrug efflux pumps of Gram-positive bacteria. Drug Resistance Updates, 2016, 27, 1-13.	6.5	171
7	Antimicrobial Salvage Therapy for Persistent Staphylococcal Bacteremia Using Daptomycin Plus Ceftaroline. Clinical Therapeutics, 2014, 36, 1317-1333.	1.1	151
8	Mechanisms of fluoroquinolone resistance in genetically related strains of Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 1997, 41, 2733-2737.	1.4	137
9	Comparative In Vitro Activities and Postantibiotic Effects of the Oxazolidinone Compounds Eperezolid (PNU-100592) and Linezolid (PNU-100766) versus Vancomycin against <i>Staphylococcus aureus</i> , Coagulase-Negative Staphylococci, <i>Enterococcus faecalis</i> , and <i>Enterococcus faecium</i>. Antimicrobial Agents and Chemotherapy, 1998, 42, 721-724.	1.4	132
10	Evidence for the Existence of a Multidrug Efflux Transporter Distinct from NorA in Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2000, 44, 1404-1406.	1.4	125
11	Antibacterials and modulators of bacterial resistance from the immature cones of Chamaecyparis lawsoniana. Phytochemistry, 2007, 68, 210-217.	1.4	121
12	Effects of NorA Inhibitors on In Vitro Antibacterial Activities and Postantibiotic Effects of Levofloxacin, Ciprofloxacin, and Norfloxacin in Genetically Related Strains of Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 1999, 43, 335-340.	1.4	117
13	Multidrug efflux pump overexpression in Staphylococcus aureus after single and multiple in vitro exposures to biocides and dyes. Microbiology (United Kingdom), 2008, 154, 3144-3153.	0.7	107
14	From Phenothiazine to 3-Phenyl-1,4-benzothiazine Derivatives as Inhibitors of the <i>Staphylococcus aureus</i> NorA Multidrug Efflux Pump. Journal of Medicinal Chemistry, 2008, 51, 4321-4330.	2.9	105
15	The Phenolic Diterpene Totarol Inhibits Multidrug Efflux Pump Activity in <i>Staphylococcus aureus</i>. Antimicrobial Agents and Chemotherapy, 2007, 51, 4480-4483.	1.4	103
16	Evolution from a Natural Flavones Nucleus to Obtain 2-(4-Propoxyphenyl)quinoline Derivatives As Potent Inhibitors of the <i>S. aureus</i> NorA Efflux Pump. Journal of Medicinal Chemistry, 2011, 54, 5722-5736.	2.9	102
17	Characteristics of Patients With Healthcare-Associated Infection Due to SCCmecType IV Methicillin-ResistantStaphylococcus aureus. Infection Control and Hospital Epidemiology, 2006, 27, 1025-1031.	1.0	100
18	Polyacylated Oligosaccharides from Medicinal Mexican Morning Glory Species as Antibacterials and Inhibitors of Multidrug Resistance inStaphylococcus aureusâŠ¥. Journal of Natural Products, 2006, 69, 406-409.	1.5	99

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19	Catechin Gallates Inhibit Multidrug Resistance (MDR) inStaphylococcus aureus. Planta Medica, 2004, 70, 1240-1242.	0.7	97
20	Community- and health care-associated methicillin-resistant Staphylococcus aureus: a comparison of molecular epidemiology and antimicrobial activities of various agents. Diagnostic Microbiology and Infectious Disease, 2007, 58, 41-47.	0.8	94
21	Inhibition of drug efflux pumps in <i>Staphylococcus aureus</i>: current status of potentiating existing antibiotics. Future Microbiology, 2013, 8, 491-507.	1.0	94
22	Ethidium Bromide MIC Screening for Enhanced Efflux Pump Gene Expression or Efflux Activity in <i>Staphylococcus aureus</i>. Antimicrobial Agents and Chemotherapy, 2010, 54, 5070-5073.	1.4	84
23	The emergence of resistance to ciprofloxacin during treatment of experimental Staphylococcus aureus endocarditis. Journal of Antimicrobial Chemotherapy, 1987, 20, 753-758.	1.3	83
24	Pyrazolo[4,3-<i>c</i>][1,2]benzothiazines 5,5-Dioxide: A Promising New Class of Staphylococcus aureus NorA Efflux Pump Inhibitors. Journal of Medicinal Chemistry, 2012, 55, 3568-3572.	2.9	82
25	N-Caffeoylphenalkylamide derivatives as bacterial efflux pump inhibitors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1755-1758.	1.0	81
26	Daptomycin Activity against <i>Staphylococcus aureus</i> following Vancomycin Exposure in an In Vitro Pharmacodynamic Model with Simulated Endocardial Vegetations. Antimicrobial Agents and Chemotherapy, 2008, 52, 831-836.	1.4	80
27	Phenylpiperidine selective serotonin reuptake inhibitors interfere with multidrug efflux pump activity in Staphylococcus aureus. International Journal of Antimicrobial Agents, 2003, 22, 254-261.	1.1	79
28	Effect of Promoter Region Mutations and mgrA Overexpression on Transcription of norA , Which Encodes a Staphylococcus aureus Multidrug Efflux Transporter. Antimicrobial Agents and Chemotherapy, 2005, 49, 161-169.	1.4	79
29	Inhibitors of Bacterial Multidrug Efflux Pumps from the Resin Glycosides of <i>Ipomoea murucoides</i>. Journal of Natural Products, 2008, 71, 1037-1045.	1.5	79
30	Structural features of piperazinyl-linked ciprofloxacin dimers required for activity against drug-resistant strains of Staphylococcus aureus. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2109-2112.	1.0	78
31	MepR, a Repressor of the Staphylococcus aureus MATE Family Multidrug Efflux Pump MepA, Is a Substrate-Responsive Regulatory Protein. Antimicrobial Agents and Chemotherapy, 2006, 50, 1276-1281.	1.4	76
32	Mechanisms of daptomycin resistance in Staphylococcus aureus. International Journal of Antimicrobial Agents, 2006, 28, 280-287.	1.1	75
33	Goldenseal (<i>Hydrastis canadensis</i>L.) Extracts Synergistically Enhance the Antibacterial Activity of Berberine via Efflux Pump Inhibition. Planta Medica, 2011, 77, 835-840.	0.7	74
34	Evaluation of daptomycin treatment of Staphylococcus aureus bacterial endocarditis: an in vitro and in vivo simulation using historical and current dosing strategies. Journal of Antimicrobial Chemotherapy, 2007, 60, 334-340.	1.3	71
35	Expression of multidrug resistance efflux pump genes in clinical and environmental isolates of Staphylococcus aureus. International Journal of Antimicrobial Agents, 2012, 40, 204-209.	1.1	69
36	Discovery of Novel Inhibitors of the NorA Multidrug Transporter of <i>Staphylococcus aureus</i>. Journal of Medicinal Chemistry, 2011, 54, 354-365.	2.9	67

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37	Synthesis and evaluation of fluoroquinolone derivatives as substrate-based inhibitors of bacterial efflux pumps. European Journal of Medicinal Chemistry, 2008, 43, 2453-2463.	2.6	66
38	Indole Based Weapons to Fight Antibiotic Resistance: A Structureâ€"Activity Relationship Study. Journal of Medicinal Chemistry, 2016, 59, 867-891.	2.9	64
39	A new plant-derived antibacterial is an inhibitor of efflux pumps in Staphylococcus aureus. International Journal of Antimicrobial Agents, 2013, 42, 513-518.	1.1	62
40	Efficacy of LY333328 against Experimental Methicillin-Resistant <i>Staphylococcus aureus</i> Endocarditis. Antimicrobial Agents and Chemotherapy, 1998, 42, 981-983.	1.4	60
41	Pharmacophore-Based Repositioning of Approved Drugs as Novel <i>Staphylococcus aureus</i> NorA Efflux Pump Inhibitors. Journal of Medicinal Chemistry, 2017, 60, 1598-1604.	2.9	59
42	Activities of Mutant Prevention Concentration-Targeted Moxifloxacin and Levofloxacin against Streptococcus pneumoniae in an In Vitro Pharmacodynamic Model. Antimicrobial Agents and Chemotherapy, 2003, 47, 2606-2614.	1.4	57
43	Identification and characterization of a novel efflux-related multidrug resistance phenotype in Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 2002, 50, 833-838.	1.3	56
44	Evaluation of Ceftaroline Activity against Heteroresistant Vancomycin-Intermediate Staphylococcus aureus and Vancomycin-Intermediate Methicillin-Resistant S. aureus Strains in an <i>In Vitro</i> Pharmacokinetic/Pharmacodynamic Model: Exploring the â€œSeesaw Effectâ€. Antimicrobial Agents and Chemotherapy, 2013, 57, 2664-2668.	1.4	54
45	A Mass Spectrometry-Based Assay for Improved Quantitative Measurements of Efflux Pump Inhibition. PLoS ONE, 2015, 10, e0124814.	1.1	53
46	Structural and biochemical characterization of MepR, a multidrug binding transcription regulator of the Staphylococcus aureus multidrug efflux pump MepA. Nucleic Acids Research, 2009, 37, 1211-1224.	6.5	52
47	Piperazinyl-linked fluoroquinolone dimers possessing potent antibacterial activity against drug-resistant strains of Staphylococcus aureus. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1745-1749.	1.0	51
48	Re-evolution of the 2-Phenylquinolines: Ligand-Based Design, Synthesis, and Biological Evaluation of a Potent New Class of Staphylococcus aureus NorA Efflux Pump Inhibitors to Combat Antimicrobial Resistance. Journal of Medicinal Chemistry, 2013, 56, 4975-4989.	2.9	51
49	Mechanisms of in-vitro-selected daptomycin-non-susceptibility in Staphylococcus aureus. International Journal of Antimicrobial Agents, 2011, 38, 442-446.	1.1	49
50	2-Phenylquinoline <i>S. aureus</i> NorA Efflux Pump Inhibitors: Evaluation of the Importance of Methoxy Group Introduction. Journal of Medicinal Chemistry, 2018, 61, 7827-7848.	2.9	46
51	Activities of Newer Fluoroquinolones against Ciprofloxacin-Resistant Streptococcus pneumoniae. Antimicrobial Agents and Chemotherapy, 2001, 45, 1654-1659.	1.4	44
52	In vitro activities of mutant prevention concentration-targeted concentrations of fluoroquinolones against Staphylococcus aureus in a pharmacodynamic model. International Journal of Antimicrobial Agents, 2004, 24, 150-160.	1.1	42
53	Inhibitors of multidrug resistance (MDR) have affinity for MDR substrates. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 881-885.	1.0	41
54	From 6-Aminoquinolone Antibacterials to 6-Amino-7-thiopyranopyridinylquinolone Ethyl Esters as Inhibitors of <i>Staphylococcus aureus</i> Multidrug Efflux Pumps. Journal of Medicinal Chemistry, 2010, 53, 4466-4480.	2.9	41

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55	Alternative Mutational Pathways to Intermediate Resistance to Vancomycin in Methicillin-Resistant Staphylococcus aureus. Journal of Infectious Diseases, 2013, 208, 67-74.	1.9	39
56	Comparison of a Rabbit Model of Bacterial Endocarditis and an In Vitro Infection Model with Simulated Endocardial Vegetations. Antimicrobial Agents and Chemotherapy, 2000, 44, 1921-1924.	1.4	38
57	Synthesis and evaluation of PSSRI-based inhibitors of Staphylococcus aureus multidrug efflux pumps. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 1368-1373.	1.0	38
58	Inhibition of the NorA multi-drug transporter by oxygenated monoterpenes. Microbial Pathogenesis, 2016, 99, 173-177.	1.3	36
59	Structural mechanism of transcription regulation of the <i>Staphylococcus aureus</i> multidrug efflux operon <i>mepRA</i> by the MarR family repressor MepR. Nucleic Acids Research, 2014, 42, 2774-2788.	6.5	35
60	Analyses of Multidrug Efflux Pump-Like Proteins Encoded on the Staphylococcus aureus Chromosome. Antimicrobial Agents and Chemotherapy, 2015, 59, 747-748.	1.4	34
61	Improved Potency of Indole-Based NorA Efflux Pump Inhibitors: From Serendipity toward Rational Design and Development. Journal of Medicinal Chemistry, 2017, 60, 517-523.	2.9	33
62	The effects of NorA inhibition on the activities of levofloxacin, ciprofloxacin and norfloxacin against two genetically related strains of Staphylococcus aureus in an in-vitro infection model. Journal of Antimicrobial Chemotherapy, 1999, 44, 343-349.	1.3	32
63	Bacterial efflux pump inhibition. Current Opinion in Investigational Drugs, 2005, 6, 191-8.	2.3	32
64	Introduction of a <i>norA</i> Promoter Region Mutation into the Chromosome of a Fluoroquinolone-Susceptible Strain of <i>Staphylococcus aureus</i> Using Plasmid Integration. Antimicrobial Agents and Chemotherapy, 1999, 43, 2222-2224.	1.4	30
65	Fluoroquinolone Resistance in Streptococcus pneumoniae : Area Under the Concentration-Time Curve/MIC Ratio and Resistance Development with Gatifloxacin, Gemifloxacin, Levofloxacin, and Moxifloxacin. Antimicrobial Agents and Chemotherapy, 2007, 51, 1315-1320.	1.4	29
66	Correlation of vancomycin and daptomycin susceptibility in Staphylococcus aureus in reference to accessory gene regulator (agr) polymorphism and function. Journal of Antimicrobial Chemotherapy, 2007, 59, 1190-1193.	1.3	29
67	Antimicrobial Susceptibility and Staphylococcal Chromosomal CassettemecType in Community- and Hospital-Associated Methicillin-ResistantStaphylococcus aureus. Pharmacotherapy, 2007, 27, 3-10.	1.2	29
68	Impact of Inoculum Size and Heterogeneous Vancomycin-Intermediate <i>Staphylococcus aureus</i> (hVISA) on Vancomycin Activity and Emergence of VISA in an In Vitro Pharmacodynamic Model. Antimicrobial Agents and Chemotherapy, 2009, 53, 805-807.	1.4	29
69	Inability of a reserpine-based screen to identify strains overexpressing efflux pump genes in clinical isolates of Staphylococcus aureus. International Journal of Antimicrobial Agents, 2009, 33, 360-363.	1.1	29
70	Inhibition of bacterial efflux pumps: a new strategy to combat increasing antimicrobial agent resistance. Expert Opinion on Emerging Drugs, 2002, 7, 223-233.	1.0	28
71	Searching for Novel Inhibitors of the <i>S.â€…aureus</i> NorA Efflux Pump: Synthesis and Biological Evaluation of the 3â€Phenylâ€1,4â€benzothiazine Analogues. ChemMedChem, 2017, 12, 1293-1302.	1.6	28
72	Mutagenesis and Modeling To Predict Structural and Functional Characteristics of the Staphylococcus aureus MepA Multidrug Efflux Pump. Journal of Bacteriology, 2013, 195, 523-533.	1.0	27

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73	Characterizing Vancomycin-Resistant Enterococcus Strains with Various Mechanisms of Daptomycin Resistance Developed in an <i>In Vitro</i> Pharmacokinetic/Pharmacodynamic Model. Antimicrobial Agents and Chemotherapy, 2011, 55, 4748-4754.	1.4	21
74	Efficacy of Trovafloxacin against Experimental Staphylococcus aureus Endocarditis. Antimicrobial Agents and Chemotherapy, 1998, 42, 254-256.	1.4	21
75	Effect of substrate exposure and other growth condition manipulations on norA expression. Journal of Antimicrobial Chemotherapy, 2004, 54, 364-369.	1.3	20
76	Structural differences between paroxetine and femoxetine responsible for differential inhibition of Staphylococcus aureus efflux pumps. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 3093-3097.	1.0	20
77	Ligand Promiscuity between the Efflux Pumps Human P-Glycoprotein and <i>S. aureus</i> NorA. ACS Medicinal Chemistry Letters, 2012, 3, 248-251.	1.3	20
78	Searching for innovative quinolone-like scaffolds: synthesis and biological evaluation of 2,1-benzothiazine 2,2-dioxide derivatives. MedChemComm, 2012, 3, 1092.	3.5	20
79	Clinical isolates of Staphylococcus aureus from 1987 and 1989 demonstrating heterogeneous resistance to vancomycin and teicoplanin. Diagnostic Microbiology and Infectious Disease, 2005, 51, 119-125.	0.8	19
80	Synergy between gemifloxacin and trimethoprim/sulfamethoxazole against community-associated methicillin-resistant Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 2008, 62, 1305-1310.	1.3	19
81	The Molecular Mechanisms of Allosteric Mutations Impairing MepR Repressor Function in Multidrug-Resistant Strains of Staphylococcus aureus. MBio, 2013, 4, e00528-13.	1.8	19
82	Studies on 2-phenylquinoline Staphylococcus aureus NorA efflux pump inhibitors: New insights on the C-6 position. European Journal of Medicinal Chemistry, 2018, 155, 428-433.	2.6	19
83	Evaluation of dalbavancin, tigecycline, minocycline, tetracycline, teicoplanin and vancomycin against community-associated and multidrug-resistant hospital-associated meticillin-resistant Staphylococcus aureus. International Journal of Antimicrobial Agents, 2010, 35, 25-29.	1.1	18
84	Functional Consequences of Substitution Mutations in MepR, a Repressor of the Staphylococcus aureus <i>mepA</i> Multidrug Efflux Pump Gene. Journal of Bacteriology, 2013, 195, 3651-3662.	1.0	18
85	Benzocyclohexane oxide derivatives and neolignans from Piper betle inhibit efflux-related resistance in Staphylococcus aureus. RSC Advances, 2016, 6, 43518-43525.	1.7	17
86	Topoisomerase Mutations in Fluoroquinolone-Resistant and Methicillin-Susceptible and -Resistant Clinical Isolates of Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 1998, 42, 197-198.	1.4	16
87	Antibacterial Sesquiterpenoid Derivatives from Ferula ferulaeoides. Planta Medica, 2013, 79, 701-706.	0.7	16
88	In silico genetic correlations of multidrug efflux pump gene expression in Staphylococcus aureus. International Journal of Antimicrobial Agents, 2010, 36, 222-229.	1.1	14
89	The â€œracemic approachâ€•in the evaluation of the enantiomeric NorA efflux pump inhibition activity of 2-phenylquinoline derivatives. Journal of Pharmaceutical and Biomedical Analysis, 2016, 129, 182-189.	1.4	14
90	Treatment strategies for infective endocarditis. Expert Opinion on Pharmacotherapy, 2010, 11, 345-360.	0.9	13

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91	Clonal relatedness is a predictor of spontaneous multidrug efflux pump gene overexpression in Staphylococcus aureus. International Journal of Antimicrobial Agents, 2015, 45, 464-470.	1.1	12
92	Teicoplanin pharmacodynamics in reference to the accessory gene regulator (agr) in Staphylococcus aureus using an in vitro pharmacodynamic model. Journal of Antimicrobial Chemotherapy, 2008, 61, 1099-1102.	1.3	9
93	Evaluation of Daptomycin Non-Susceptible Staphylococcus aureus for Stability, Population Profiles, mprF Mutations, and Daptomycin Activity. Infectious Diseases and Therapy, 2013, 2, 187-200.	1.8	9
94	Modulation of the Drug Resistance by Platonia insignis Mart. Extract, Ethyl Acetate Fraction and Morelloflavone/Volkensiflavone (Biflavonoids) in Staphylococcus aureus Strains Overexpressing Efflux Pump Genes. Current Drug Metabolism, 2021, 22, 114-122.	0.7	9
95	Mutations within the <i>mepA</i> Operator Affect Binding of the MepR Regulatory Protein and Its Induction by MepA Substrates in Staphylococcus aureus. Journal of Bacteriology, 2015, 197, 1104-1114.	1.0	8
96	Serum Bactericidal Activity of the Methoxyfluoroquinolones Gatifloxacin and Moxifloxacin against Clinical Isolates of Staphylococcus Species: Are the Susceptibility Breakpoints Too High?. Clinical Infectious Diseases, 2003, 37, 1392-1395.	2.9	7
97	Oxazolidinones: new players in the battle against multi-resistant Gram-positive bacteria. Expert Opinion on Emerging Drugs, 2001, 6, 43-55.	1.1	6
98	Efavirenz-Associated Urinary Matrix Stoneâ€"A Rare Presentation. American Journal of the Medical Sciences, 2016, 351, 213-214.	0.4	5
99	Fluoroquinolone Resistance in Bacteria. , 2009, , 195-205.		3
100	Fluoroquinolone Resistance in Bacteria. , 2017, , 245-263.		3
101	Role of Multidrug Efflux Pumps in Gram-Positive Bacteria. , 2014, , 275-285.		1