

Tony Velkov

List of Publications by Year in descending order

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Version: 2024-02-01

220
papers

8,255
citations

44069

48
h-index

71685

76
g-index

221
all docs

221
docs citations

221
times ranked

8608
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions between polymyxin B and various bacterial membrane mimics: A molecular dynamics study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 211, 112288.	5.0	6
2	Comparative metabolomics revealed key pathways associated with the synergistic killing of multidrug-resistant <i>Klebsiella pneumoniae</i> by a bacteriophage-polymyxin combination. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 485-495.	4.1	12
3	Polymyxin causes cell envelope remodelling and stress responses in <i>mcr-1</i> -harbouring <i>Escherichia coli</i> . <i>International Journal of Antimicrobial Agents</i> , 2022, 59, 106505.	2.5	1
4	Unique mechanistic insights into pathways associated with the synergistic activity of polymyxin B and caspofungin against multidrug-resistant <i>Klebsiella pneumoniae</i> . <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 1077-1087.	4.1	10
5	The Natural Product Curcumin as an Antibacterial Agent: Current Achievements and Problems. <i>Antioxidants</i> , 2022, 11, 459.	5.1	55
6	Polymyxin Induces Significant Transcriptomic Perturbations of Cellular Signalling Networks in Human Lung Epithelial Cells. <i>Antibiotics</i> , 2022, 11, 307.	3.7	0
7	p21 restricts influenza A virus by perturbing the viral polymerase complex and upregulating type I interferon signaling. <i>PLoS Pathogens</i> , 2022, 18, e1010295.	4.7	12
8	An Efficient Approach for the Design and Synthesis of Antimicrobial Peptide-Peptide Nucleic Acid Conjugates. <i>Frontiers in Chemistry</i> , 2022, 10, 843163.	3.6	9
9	Intraventricular Drug Delivery and Sampling for Pharmacokinetics and Pharmacodynamics Study. <i>Journal of Visualized Experiments</i> , 2022, , .	0.3	2
10	A synthetic lipopeptide targeting top-priority multidrug-resistant Gram-negative pathogens. <i>Nature Communications</i> , 2022, 13, 1625.	12.8	53
11	Correlative proteomics identify the key roles of stress tolerance strategies in <i>Acinetobacter baumannii</i> in response to polymyxin and human macrophages. <i>PLoS Pathogens</i> , 2022, 18, e1010308.	4.7	6
12	Polymyxin dose tunes the evolutionary dynamics of resistance in multidrug-resistant <i>Acinetobacter baumannii</i> . <i>Clinical Microbiology and Infection</i> , 2022, 28, 1026.e1-1026.e5.	6.0	4
13	Mechanisms Underlying Synergistic Killing of Polymyxin B in Combination with Cannabidiol against <i>Acinetobacter baumannii</i> : A Metabolomic Study. <i>Pharmaceutics</i> , 2022, 14, 786.	4.5	11
14	Colistin-induced pulmonary toxicity involves the activation of NOX4/TGF- β 2/mtROS pathway and the inhibition of Akt/mTOR pathway. <i>Food and Chemical Toxicology</i> , 2022, 163, 112966.	3.6	6
15	Inwardly rectifying potassium channels mediate polymyxin-induced nephrotoxicity. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 296.	5.4	4
16	An Intelligent Strategy with All-Atom Molecular Dynamics Simulations for the Design of Lipopeptides against Multidrug-Resistant <i>Pseudomonas aeruginosa</i> . <i>Journal of Medicinal Chemistry</i> , 2022, 65, 10001-10013.	6.4	6
17	T-2 toxin and its cardiotoxicity: New insights on the molecular mechanisms and therapeutic implications. <i>Food and Chemical Toxicology</i> , 2022, 167, 113262.	3.6	11
18	DNA variants are an unlikely explanation for the changing quality of spermatozoa within the same individual. <i>Human Fertility</i> , 2021, 24, 376-388.	1.7	0

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19	Comparative metabolomics reveals key pathways associated with the synergistic activity of polymyxin B and rifampicin combination against multidrug-resistant <i>Acinetobacter baumannii</i> . <i>Biochemical Pharmacology</i> , 2021, 184, 114400.	4.4	16
20	Rescuing the Last-Line Polymyxins: Achievements and Challenges. <i>Pharmacological Reviews</i> , 2021, 73, 679-728.	16.0	167
21	Evaluation Strategies for Triple-Drug Combinations against Carbapenemase-Producing <i>Klebsiella pneumoniae</i> in an <i>In Vitro</i> Hollow-Fiber Infection Model. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 109, 1074-1080.	4.7	10
22	In vitro evaluation of drug delivery behavior for inhalable amorphous nanoparticle formulations in a human lung epithelial cell model. <i>International Journal of Pharmaceutics</i> , 2021, 596, 120211.	5.2	7
23	Synergy of the Polymyxin-Chloramphenicol Combination against New Delhi Metallo- β -Lactamase-Producing <i>Klebsiella pneumoniae</i> Is Predominately Driven by Chloramphenicol. <i>ACS Infectious Diseases</i> , 2021, 7, 1584-1595.	3.8	14
24	Clinically Relevant Concentrations of Polymyxin B and Meropenem Synergistically Kill Multidrug-Resistant <i>Pseudomonas aeruginosa</i> and Minimize Biofilm Formation. <i>Antibiotics</i> , 2021, 10, 405.	3.7	7
25	Synchrotron-Based X-Ray Fluorescence Microscopy Reveals Accumulation of Polymyxins in Single Human Alveolar Epithelial Cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	5
26	Inhibition of Oxidative Stress and ALOX12 and NF- κ B Pathways Contribute to the Protective Effect of Baicalein on Carbon Tetrachloride-Induced Acute Liver Injury. <i>Antioxidants</i> , 2021, 10, 976.	5.1	55
27	Polymyxins for the treatment of lower respiratory tract infections: lessons learned from the integration of clinical pharmacokinetic studies and clinical outcomes. <i>International Journal of Antimicrobial Agents</i> , 2021, 57, 106328.	2.5	11
28	A Precision Medicine Approach to Optimize Modulator Therapy for Rare CFTR Folding Mutants. <i>Journal of Personalized Medicine</i> , 2021, 11, 643.	2.5	20
29	Polymyxin-Induced Metabolic Perturbations in Human Lung Epithelial Cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, e0083521.	3.2	3
30	Insights Into Patient Variability During Ivacaftor-Lumacaftor Therapy in Cystic Fibrosis. <i>Frontiers in Pharmacology</i> , 2021, 12, 577263.	3.5	6
31	Coarse-grained simulations uncover Gram-negative bacterial defense against polymyxins by the outer membrane. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3885-3891.	4.1	13
32	A novel chemical biology and computational approach to expedite the discovery of new-generation polymyxins against life-threatening <i>Acinetobacter baumannii</i> . <i>Chemical Science</i> , 2021, 12, 12211-12220.	7.4	13
33	Antimicrobial Peptides: An Update on Classifications and Databases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11691.	4.1	106
34	Biophysical Impact of Lipid A Modification Caused by Mobile Colistin Resistance Gene on Bacterial Outer Membranes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11629-11635.	4.6	9
35	Mass Spectrometry Reveals New Insights into the Production of Superoxide Anions and 4-Hydroxynonenal Adducted Proteins in Human Sperm. <i>Proteomics</i> , 2020, 20, e1900205.	2.2	10
36	Inhalable liposomal powder formulations for co-delivery of synergistic ciprofloxacin and colistin against multi-drug resistant gram-negative lung infections. <i>International Journal of Pharmaceutics</i> , 2020, 575, 118915.	5.2	43

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37	Synthesis and structure-activity relationships of teixobactin. <i>Annals of the New York Academy of Sciences</i> , 2020, 1459, 86-105.	3.8	26
38	Polymyxin B combinations with FDA-approved non-antibiotic phenothiazine drugs targeting multi-drug resistance of Gram-negative pathogens. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 2247-2258.	4.1	17
39	Structure-Activity Relationships of Daptomycin Lipopeptides. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 13266-13290.	6.4	30
40	Polymyxin-Induced Cell Death of Human Macrophage-Like THP-1 and Neutrophil-Like HL-60 Cells Associated with the Activation of Apoptotic Pathways. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	5
41	The Antimicrobial Activity of Cannabinoids. <i>Antibiotics</i> , 2020, 9, 406.	3.7	64
42	Genome-Scale Metabolic Modeling Reveals Metabolic Alterations of Multidrug-Resistant <i>Acinetobacter baumannii</i> in a Murine Bloodstream Infection Model. <i>Microorganisms</i> , 2020, 8, 1793.	3.6	12
43	Lipid A profiling and metabolomics analysis of paired polymyxin-susceptible and -resistant MDR <i>Klebsiella pneumoniae</i> clinical isolates from the same patients before and after colistin treatment. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 2852-2863.	3.0	14
44	Outer Membranes of Polymyxin-Resistant <i>Acinetobacter baumannii</i> with Phosphoethanolamine-Modified Lipid A and Lipopolysaccharide Loss Display Different Atomic-Scale Interactions with Polymyxins. <i>ACS Infectious Diseases</i> , 2020, 6, 2698-2708.	3.8	19
45	Simulations of octapeptin-outer membrane interactions reveal conformational flexibility is linked to antimicrobial potency. <i>Journal of Biological Chemistry</i> , 2020, 295, 15902-15912.	3.4	13
46	Sialylation of Asparagine 612 Inhibits Aconitase Activity during Mouse Sperm Capacitation; a Possible Mechanism for the Switch from Oxidative Phosphorylation to Glycolysis. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1860-1875.	3.8	4
47	Molecular dynamics simulations informed by membrane lipidomics reveal the structure-interaction relationship of polymyxins with the lipid A-based outer membrane of <i>Acinetobacter baumannii</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 3534-3543.	3.0	25
48	Nerve Growth Factor Confers Neuroprotection against Colistin-Induced Peripheral Neurotoxicity. <i>ACS Infectious Diseases</i> , 2020, 6, 1451-1459.	3.8	7
49	Polymyxin Triple Combinations against Polymyxin-Resistant, Multidrug-Resistant, KPC-Producing <i>Klebsiella pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	13
50	Effective Strategy Targeting Polymyxin-Resistant Gram-Negative Pathogens: Polymyxin B in Combination with the Selective Serotonin Reuptake Inhibitor Sertraline. <i>ACS Infectious Diseases</i> , 2020, 6, 1436-1450.	3.8	20
51	The Killing Mechanism of Teixobactin against Methicillin-Resistant <i>Staphylococcus aureus</i> : an Untargeted Metabolomics Study. <i>MSystems</i> , 2020, 5, .	3.8	33
52	Polymyxins-Curcumin Combination Antimicrobial Therapy: Safety Implications and Efficacy for Infection Treatment. <i>Antioxidants</i> , 2020, 9, 506.	5.1	26
53	Transcriptomic responses of a New Delhi metallo- β -lactamase-producing <i>Klebsiella pneumoniae</i> isolate to the combination of polymyxin B and chloramphenicol. <i>International Journal of Antimicrobial Agents</i> , 2020, 56, 106061.	2.5	10
54	Polymyxins Bind to the Cell Surface of Unculturable <i>Acinetobacter baumannii</i> and Cause Unique Dependent Resistance. <i>Advanced Science</i> , 2020, 7, 2000704.	11.2	31

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55	Structure-Activity Interaction Relationship of Polymyxins with the Membrane of Human Kidney Proximal Tubular Cells. <i>ACS Infectious Diseases</i> , 2020, 6, 2110-2119.	3.8	18
56	Complete genome sequence and genome-scale metabolic modelling of <i>Acinetobacter baumannii</i> type strain ATCC 19606. <i>International Journal of Medical Microbiology</i> , 2020, 310, 151412.	3.6	11
57	Curcumin Attenuates Colistin-Induced Peripheral Neurotoxicity in Mice. <i>ACS Infectious Diseases</i> , 2020, 6, 715-724.	3.8	29
58	Structure of micelle bound cationic peptides by NMR spectroscopy using a lanthanide shift reagent. <i>Chemical Communications</i> , 2020, 56, 2897-2900.	4.1	6
59	Regulating polymyxin resistance in Gram-negative bacteria: roles of two-component systems PhoPQ and PmrAB. <i>Future Microbiology</i> , 2020, 15, 445-459.	2.0	51
60	Pan-transcriptomic analysis identified common differentially expressed genes of <i>Acinetobacter baumannii</i> in response to polymyxin treatments. <i>Molecular Omics</i> , 2020, 16, 327-338.	2.8	7
61	Allosteric folding correction of F508del and rare CFTR mutants by elexacaftor-tezacaftor-ivacaftor (Trikafta) combination. <i>JCI Insight</i> , 2020, 5, .	5.0	159
62	Intracellular localization of polymyxins in human alveolar epithelial cells. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 48-57.	3.0	11
63	The impact of backbone N-methylation on the structure-activity relationship of Leu 10-oximeixobactin. <i>Journal of Peptide Science</i> , 2019, 25, e3206.	1.4	6
64	Polymyxin resistance in <i>Klebsiella pneumoniae</i> : multifaceted mechanisms utilized in the presence and absence of the plasmid-encoded phosphoethanolamine transferase gene <i>mcr-1</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 3190-3198.	3.0	12
65	Multifaceted mechanisms of colistin resistance revealed by genomic analysis of multidrug-resistant <i>Klebsiella pneumoniae</i> isolates from individual patients before and after colistin treatment. <i>Journal of Infection</i> , 2019, 79, 312-321.	3.3	24
66	Comparative Metabolomics Reveals Key Pathways Associated With the Synergistic Killing of Colistin and Sulbactam Combination Against Multidrug-Resistant <i>Acinetobacter baumannii</i> . <i>Frontiers in Pharmacology</i> , 2019, 10, 754.	3.5	21
67	Mechanisms of Polymyxin-Induced Nephrotoxicity. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1145, 305-319.	1.6	26
68	History, Chemistry and Antibacterial Spectrum. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1145, 15-36.	1.6	22
69	Discovery of Novel Polymyxin-Like Antibiotics. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1145, 343-362.	1.6	16
70	Polymyxins: Mode of Action. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1145, 37-54.	1.6	35
71	Synergistic Combination of Polymyxin B and Enrofloxacin Induced Metabolic Perturbations in Extensive Drug-Resistant <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Pharmacology</i> , 2019, 10, 1146.	3.5	17
72	Metabolomics Study of the Synergistic Killing of Polymyxin B in Combination with Amikacin against Polymyxin-Susceptible and -Resistant <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 64, .	3.2	28

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73	T-2 toxin neurotoxicity: role of oxidative stress and mitochondrial dysfunction. <i>Archives of Toxicology</i> , 2019, 93, 3041-3056.	4.2	89
74	Novel Polymyxin Combination with the Antiretroviral Zidovudine Exerts Synergistic Killing against NDM-Producing Multidrug-Resistant <i>Klebsiella pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	16
75	The rise and spread of <i>mcr</i> plasmid-mediated polymyxin resistance. <i>Critical Reviews in Microbiology</i> , 2019, 45, 131-161.	6.1	174
76	Global Metabolic Analyses of <i>Acinetobacter baumannii</i> . <i>Methods in Molecular Biology</i> , 2019, 1946, 321-328.	0.9	2
77	Effects of the antibiotic component on in-vitro bacterial killing, physico-chemical properties, aerosolization and dissolution of a ternary-combinational inhalation powder formulation of antibiotics for pan-drug resistant Gram-negative lung infections. <i>International Journal of Pharmaceutics</i> , 2019, 561, 102-113.	5.2	11
78	Metabolic Responses to Polymyxin Treatment in <i>Acinetobacter baumannii</i> ATCC 19606: Integrating Transcriptomics and Metabolomics with Genome-Scale Metabolic Modeling. <i>MSystems</i> , 2019, 4, .	3.8	28
79	An optimised Cu(0)-RDRP approach for the synthesis of lipidated oligomeric vinyl azlactone: toward a versatile antimicrobial materials screening platform. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6796-6809.	5.8	11
80	Comparative Metabolomics and Transcriptomics Reveal Multiple Pathways Associated with Polymyxin Killing in <i>Pseudomonas aeruginosa</i> . <i>MSystems</i> , 2019, 4, .	3.8	52
81	Molecular Mechanisms of Neurotoxicity Induced by Polymyxins and Chemoprevention. <i>ACS Chemical Neuroscience</i> , 2019, 10, 120-131.	3.5	45
82	Contemporary Anti-Ebola Drug Discovery Approaches and Platforms. <i>ACS Infectious Diseases</i> , 2019, 5, 35-48.	3.8	3
83	Fitness cost of <i>mcr-1</i> -mediated polymyxin resistance in <i>Klebsiella pneumoniae</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 1604-1610.	3.0	68
84	Polymyxin B in Combination with Enrofloxacin Exerts Synergistic Killing against Extensively Drug-Resistant <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	15
85	Alterations of Metabolic and Lipid Profiles in Polymyxin-Resistant <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	58
86	T-2 toxin-induced toxicity in neuroblastoma-2a cells involves the generation of reactive oxygen, mitochondrial dysfunction and inhibition of Nrf2/HO-1 pathway. <i>Food and Chemical Toxicology</i> , 2018, 114, 88-97.	3.6	49
87	Structure, Function, and Biosynthetic Origin of Octapeptin Antibiotics Active against Extensively Drug-Resistant Gram-Negative Bacteria. <i>Cell Chemical Biology</i> , 2018, 25, 380-391.e5.	5.2	57
88	A Proof-of-Concept Study of the Efficacy of Systemically Administered Polymyxins in Mouse Burn Wound Infection Caused by Multidrug-Resistant Gram-Negative Pathogens. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	2
89	Comparative analysis of phosphoethanolamine transferases involved in polymyxin resistance across 10 clinically relevant Gram-negative bacteria. <i>International Journal of Antimicrobial Agents</i> , 2018, 51, 586-593.	2.5	18
90	Rapamycin Confers Neuroprotection against Colistin-Induced Oxidative Stress, Mitochondria Dysfunction, and Apoptosis through the Activation of Autophagy and mTOR/Akt/CREB Signaling Pathways. <i>ACS Chemical Neuroscience</i> , 2018, 9, 824-837.	3.5	67

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91	The inhibitory effects of eighteen front-line antibiotics on the substrate uptake mediated by human Organic anion/cation transporters, Organic anion transporting polypeptides and Oligopeptide transporters in in vitro models. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 115, 132-143.	4.0	10
92	Proteomic analysis of good- and poor-quality human sperm demonstrates that several proteins are routinely aberrantly regulated. <i>Biology of Reproduction</i> , 2018, 99, 395-408.	2.7	44
93	The potentially beneficial central nervous system activity profile of ivacaftor and its metabolites. <i>ERJ Open Research</i> , 2018, 4, 00127-2017.	2.6	21
94	Sputum Active Polymyxin Lipopeptides: Activity against Cystic Fibrosis <i>Pseudomonas aeruginosa</i> Isolates and Their Interactions with Sputum Biomolecules. <i>ACS Infectious Diseases</i> , 2018, 4, 646-655.	3.8	19
95	Genome-scale metabolic modeling of responses to polymyxins in <i>Pseudomonas aeruginosa</i> . <i>GigaScience</i> , 2018, 7, .	6.4	44
96	Curcumin Attenuates Colistin-Induced Neurotoxicity in N2a Cells via Anti-inflammatory Activity, Suppression of Oxidative Stress, and Apoptosis. <i>Molecular Neurobiology</i> , 2018, 55, 421-434.	4.0	78
97	Polymyxins for CNS infections: Pharmacology and neurotoxicity. , 2018, 181, 85-90.		71
98	Broad activity of diphenylethylideneiodonium analogues against <i>Mycobacterium tuberculosis</i> , malaria parasites and bacterial pathogens. <i>European Journal of Medicinal Chemistry</i> , 2018, 148, 507-518.	5.5	14
99	Methionine Ameliorates Polymyxin-Induced Nephrotoxicity by Attenuating Cellular Oxidative Stress. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	20
100	Polymyxin-Induced Lipid A Deacylation in <i>Pseudomonas aeruginosa</i> Perturbs Polymyxin Penetration and Confers High-Level Resistance. <i>ACS Chemical Biology</i> , 2018, 13, 121-130.	3.4	59
101	Metabolic Analyses Revealed Time-Dependent Synergistic Killing by Colistin and Aztreonam Combination Against Multidrug-Resistant <i>Acinetobacter baumannii</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 2776.	3.5	20
102	Chloroquine ameliorates carbon tetrachloride-induced acute liver injury in mice via the concomitant inhibition of inflammation and induction of apoptosis. <i>Cell Death and Disease</i> , 2018, 9, 1164.	6.3	115
103	Mechanistic Insights From Global Metabolomics Studies into Synergistic Bactericidal Effect of a Polymyxin B Combination With Tamoxifen Against Cystic Fibrosis MDR <i>Pseudomonas aeruginosa</i> . <i>Computational and Structural Biotechnology Journal</i> , 2018, 16, 587-599.	4.1	19
104	Exploiting Macromolecular Design To Optimize the Antibacterial Activity of Alkylated Cationic Oligomers. <i>Biomacromolecules</i> , 2018, 19, 4629-4640.	5.4	14
105	A Comparative Study of Outer Membrane Proteome between Paired Colistin-Susceptible and Extremely Colistin-Resistant <i>Klebsiella pneumoniae</i> Strains. <i>ACS Infectious Diseases</i> , 2018, 4, 1692-1704.	3.8	15
106	Graphene-Enhanced 3D Chemical Mapping of Biological Specimens at Near-Atomic Resolution. <i>Advanced Functional Materials</i> , 2018, 28, 1801439.	14.9	14
107	Composite particle formulations of colistin and meropenem with improved in-vitro bacterial killing and aerosolization for inhalation. <i>International Journal of Pharmaceutics</i> , 2018, 548, 443-453.	5.2	20
108	Synergistic Killing of Polymyxin B in Combination With the Antineoplastic Drug Mitotane Against Polymyxin-Susceptible and -Resistant <i>Acinetobacter baumannii</i> : A Metabolomic Study. <i>Frontiers in Pharmacology</i> , 2018, 9, 359.	3.5	14

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109	Novel Polymyxin Combination With Antineoplastic Mitotane Improved the Bacterial Killing Against Polymyxin-Resistant Multidrug-Resistant Gram-Negative Pathogens. <i>Frontiers in Microbiology</i> , 2018, 9, 721.	3.5	34
110	Lipidomic Analysis of the Outer Membrane Vesicles from Paired Polymyxin-Susceptible and -Resistant <i>Klebsiella pneumoniae</i> Clinical Isolates. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2356.	4.1	23
111	Functional Characterization of the Unique Terminal Thioesterase Domain from Polymyxin Synthetase. <i>Biochemistry</i> , 2017, 56, 657-668.	2.5	8
112	Plasma Protein Binding Structure-Activity Relationships Related to the N-Terminus of Daptomycin. <i>ACS Infectious Diseases</i> , 2017, 3, 249-258.	3.8	20
113	Pharmacokinetics of the Individual Major Components of Polymyxin B and Colistin in Rats. <i>Journal of Natural Products</i> , 2017, 80, 225-229.	3.0	26
114	A traceless reversible polymeric colistin prodrug to combat multidrug-resistant (MDR) gram-negative bacteria. <i>Journal of Controlled Release</i> , 2017, 259, 83-91.	9.9	15
115	Rediscovering the octapeptins. <i>Natural Product Reports</i> , 2017, 34, 295-309.	10.3	34
116	Potential Toxicity of Polymyxins in Human Lung Epithelial Cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	34
117	Characterization of the Polymyxin D Synthetase Biosynthetic Cluster and Product Profile of <i>Paenibacillus polymyxa</i> ATCC 10401. <i>Journal of Natural Products</i> , 2017, 80, 1264-1274.	3.0	27
118	Pulsed-voltage atom probe tomography of low conductivity and insulator materials by application of ultrathin metallic coating on nanoscale specimen geometry. <i>Ultramicroscopy</i> , 2017, 181, 150-159.	1.9	9
119	Minocycline attenuates colistin-induced neurotoxicity via suppression of apoptosis, mitochondrial dysfunction and oxidative stress. <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 1635-1645.	3.0	46
120	Untargeted metabolomics analysis reveals key pathways responsible for the synergistic killing of colistin and doripenem combination against <i>Acinetobacter baumannii</i> . <i>Scientific Reports</i> , 2017, 7, 45527.	3.3	89
121	From Breast Cancer to Antimicrobial: Combating Extremely Resistant Gram-Negative "Superbugs" Using Novel Combinations of Polymyxin B with Selective Estrogen Receptor Modulators. <i>Microbial Drug Resistance</i> , 2017, 23, 640-650.	2.0	45
122	Cationic acrylate oligomers comprising amino acid mimic moieties demonstrate improved antibacterial killing efficiency. <i>Journal of Materials Chemistry B</i> , 2017, 5, 531-536.	5.8	38
123	Aminoglycoside Concentrations Required for Synergy with Carbapenems against <i>Pseudomonas aeruginosa</i> Determined via Mechanistic Studies and Modeling. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	31
124	Gelofusine Ameliorates Colistin-Induced Nephrotoxicity. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	18
125	The first total synthesis and solution structure of a polypeptin, PE2, a cyclic lipopeptide with broad spectrum antibiotic activity. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7173-7180.	2.8	5
126	Optimized LC-MS/MS Method for the High-throughput Analysis of Clinical Samples of Ivacaftor, Its Major Metabolites, and Lumacaftor in Biological Fluids of Cystic Fibrosis Patients. <i>Journal of Visualized Experiments</i> , 2017, . .	0.3	11

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127	Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. <i>ACS Infectious Diseases</i> , 2017, 3, 606-619.	3.8	25
128	Baicalein acts as a nephroprotectant that ameliorates colistin-induced nephrotoxicity by activating the antioxidant defence mechanism of the kidneys and down-regulating the inflammatory response. <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 2562-2569.	3.0	51
129	Hydrolyzable Poly[Poly(Ethylene Glycol) Methyl Ether Acrylate]â€™Colistin Prodrugs through Copper-Mediated Photoinduced Living Radical Polymerization. <i>Bioconjugate Chemistry</i> , 2017, 28, 1916-1924.	3.6	11
130	A Hydrogelâ€™Based Localized Release of Colistin for Antimicrobial Treatment of Burn Wound Infection. <i>Macromolecular Bioscience</i> , 2017, 17, 1600320.	4.1	51
131	A Fresh Shine on Cystic Fibrosis Inhalation Therapy: Antimicrobial Synergy of Polymyxin B in Combination with Silver Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 447-457.	1.1	12
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