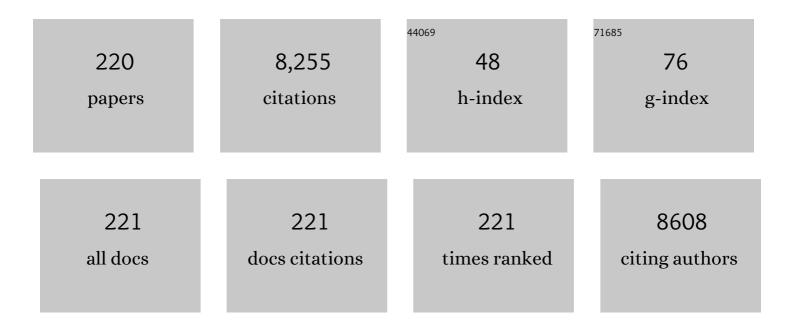
Tony Velkov

List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|--|------|-----------|
| 1 | Structureâ^'Activity Relationships of Polymyxin Antibiotics. Journal of Medicinal Chemistry, 2010, 53, 1898-1916. | 6.4 | 604 |
| 2 | Pharmacology of polymyxins: new insights into an â€~old' class of antibiotics. Future Microbiology, 2013, 8, 711-724. | 2.0 | 369 |
| 3 | Colistin and Polymyxin B: Peas in a Pod, or Chalk and Cheese?. Clinical Infectious Diseases, 2014, 59, 88-94. | 5.8 | 231 |
| 4 | The rise and spread of <i>mcr</i> plasmid-mediated polymyxin resistance. Critical Reviews in Microbiology, 2019, 45, 131-161. | 6.1 | 174 |
| 5 | Rescuing the Last-Line Polymyxins: Achievements and Challenges. Pharmacological Reviews, 2021, 73, 679-728. | 16.0 | 167 |
| 6 | Allosteric folding correction of F508del and rare CFTR mutants by elexacaftor-tezacaftor-ivacaftor (Trikafta) combination. JCI Insight, 2020, 5, . | 5.0 | 159 |
| 7 | A secondary mode of action of polymyxins against Gram-negative bacteria involves the inhibition of NADH-quinone oxidoreductase activity. Journal of Antibiotics, 2014, 67, 147-151. | 2.0 | 156 |
| 8 | Teaching â€~Old' Polymyxins New Tricks: New-Generation Lipopeptides Targeting Gram-Negative â€~Superbugs'. ACS Chemical Biology, 2014, 9, 1172-1177. | 3.4 | 139 |
| 9 | Pharmacokinetics/pharmacodynamics of colistin and polymyxin B: are we there yet?. International Journal of Antimicrobial Agents, 2016, 48, 592-597. | 2.5 | 137 |
| 10 | Antimicrobial Activity and Toxicity of the Major Lipopeptide Components of Polymyxin B and Colistin: Last-Line Antibiotics against Multidrug-Resistant Gram-Negative Bacteria. ACS Infectious Diseases, 2015, 1, 568-575. | 3.8 | 124 |
| 11 | Head and flagella subcompartmental proteomic analysis of human spermatozoa. Proteomics, 2013, 13, 61-74. | 2.2 | 115 |
| 12 | Chloroquine ameliorates carbon tetrachloride-induced acute liver injury in mice via the concomitant inhibition of inflammation and induction of apoptosis. Cell Death and Disease, 2018, 9, 1164. | 6.3 | 115 |
| 13 | Antimicrobial Peptides: An Update on Classifications and Databases. International Journal of Molecular Sciences, 2021, 22, 11691. | 4.1 | 106 |
| 14 | Lycopene Attenuates Colistin-Induced Nephrotoxicity in Mice via Activation of the Nrf2/HO-1 Pathway. Antimicrobial Agents and Chemotherapy, 2015, 59, 579-585. | 3.2 | 105 |
| 15 | Probing the Penetration of Antimicrobial Polymyxin Lipopeptides into Gram-Negative Bacteria. Bioconjugate Chemistry, 2014, 25, 750-760. | 3.6 | 103 |
| 16 | Untargeted metabolomics analysis reveals key pathways responsible for the synergistic killing of colistin and doripenem combination against Acinetobacter baumannii. Scientific Reports, 2017, 7, 45527. | 3.3 | 89 |
| 17 | T-2 toxin neurotoxicity: role of oxidative stress and mitochondrial dysfunction. Archives of Toxicology, 2019, 93, 3041-3056. | 4.2 | 89 |
| 18 | The Combination of Colistin and Doripenem Is Synergistic against Klebsiella pneumoniae at Multiple Inocula and Suppresses Colistin Resistance in an <i>In Vitro</i> Pharmacokinetic/Pharmacodynamic Model. Antimicrobial Agents and Chemotherapy, 2012, 56, 5103-5112. | 3.2 | 85 |

| # | Article | IF | CITATIONS |
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| 19 | Polymyxin B Induces Apoptosis in Kidney Proximal Tubular Cells. Antimicrobial Agents and Chemotherapy, 2013, 57, 4329-4335. | 3.2 | 80 |
| 20 | An "Unlikely―Pair: The Antimicrobial Synergy of Polymyxin B in Combination with the Cystic Fibrosis Transmembrane Conductance Regulator Drugs KALYDECO and ORKAMBI. ACS Infectious Diseases, 2016, 2, 478-488. | 3.8 | 80 |
| 21 | Curcumin Attenuates Colistin-Induced Neurotoxicity in N2a Cells via Anti-inflammatory Activity, Suppression of Oxidative Stress, and Apoptosis. Molecular Neurobiology, 2018, 55, 421-434. | 4.0 | 78 |
| 22 | Defining the Mechanisms by Which the Reactive Oxygen Species By-Product, 4-Hydroxynonenal, Affects Human Sperm Cell Function1. Biology of Reproduction, 2015, 92, 108. | 2.7 | 76 |
| 23 | Two Mechanisms of Killing of Pseudomonas aeruginosa by Tobramycin Assessed at Multiple Inocula via Mechanism-Based Modeling. Antimicrobial Agents and Chemotherapy, 2015, 59, 2315-2327. | 3.2 | 76 |
| 24 | Inhaled anti-infective chemotherapy for respiratory tract infections: Successes, challenges and the road ahead. Advanced Drug Delivery Reviews, 2015, 85, 65-82. | 13.7 | 75 |
| 25 | Polymyxins: a new hope in combating Gram-negative superbugs?. Future Medicinal Chemistry, 2016, 8, 1017-1025. | 2.3 | 74 |
| 26 | Synergistic killing of NDM-producing MDR <i>Klebsiella pneumoniae</i> by two â€~old' antibiotics—polymyxin B and chloramphenicol. Journal of Antimicrobial Chemotherapy, 2015, 70, 2589-2597. | 3.0 | 73 |
| 27 | Antibiotic–non-antibiotic combinations for combating extremely drug-resistant Gram-negative â€ĩsuperbugs'. Essays in Biochemistry, 2017, 61, 115-125. | 4.7 | 71 |
| 28 | Polymyxins for CNS infections: Pharmacology and neurotoxicity. , 2018, 181, 85-90. | | 71 |
| 29 | Fitness cost of mcr-1-mediated polymyxin resistance in Klebsiella pneumoniae. Journal of Antimicrobial Chemotherapy, 2018, 73, 1604-1610. | 3.0 | 68 |
| 30 | Rapamycin Confers Neuroprotection against Colistin-Induced Oxidative Stress, Mitochondria Dysfunction, and Apoptosis through the Activation of Autophagy and mTOR/Akt/CREB Signaling Pathways. ACS Chemical Neuroscience, 2018, 9, 824-837. | 3.5 | 67 |
| 31 | The Antimicrobial Activity of Cannabinoids. Antibiotics, 2020, 9, 406. | 3.7 | 64 |
| 32 | Characterization of the Drug Binding Specificity of Rat Liver Fatty Acid Binding Protein. Journal of Medicinal Chemistry, 2008, 51, 3755-3764. | 6.4 | 63 |
| 33 | Self-Assembly Behavior of Colistin and Its Prodrug Colistin Methanesulfonate: Implications for Solution Stability and Solubilization. Journal of Physical Chemistry B, 2010, 114, 4836-4840. | 2.6 | 63 |
| 34 | PK/PD models in antibacterial development. Current Opinion in Microbiology, 2013, 16, 573-579. | 5.1 | 61 |
| 35 | Interactions between Human Liver Fatty Acid Binding Protein and Peroxisome Proliferator Activated Receptor Selective Drugs. PPAR Research, 2013, 2013, 1-14. | 2.4 | 61 |
| 36 | Surface changes and polymyxin interactions with a resistant strain of <i>Klebsiella pneumoniae</i> . Innate Immunity, 2014, 20, 350-363. | 2.4 | 61 |

| # | Article | IF | CITATIONS |
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| 37 | Major Pathways of Polymyxin-Induced Apoptosis in Rat Kidney Proximal Tubular Cells. Antimicrobial Agents and Chemotherapy, 2015, 59, 2136-2143. | 3.2 | 59 |
| 38 | Polymyxin-Induced Lipid A Deacylation in <i>Pseudomonas aeruginosa</i> Perturbs Polymyxin Penetration and Confers High-Level Resistance. ACS Chemical Biology, 2018, 13, 121-130. | 3.4 | 59 |
| 39 | Pharmacokinetics of four different brands of colistimethate and formed colistin in rats. Journal of Antimicrobial Chemotherapy, 2013, 68, 2311-7. | 3.0 | 58 |
| 40 | Antibacterial low molecular weight cationic polymers: dissecting the contribution of hydrophobicity, chain length and charge to activity. RSC Advances, 2016, 6, 15469-15477. | 3.6 | 58 |
| 41 | Alterations of Metabolic and Lipid Profiles in Polymyxin-Resistant Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2018, 62, . | 3.2 | 58 |
| 42 | Structure, Function, and Biosynthetic Origin of Octapeptin Antibiotics Active against Extensively Drug-Resistant Gram-Negative Bacteria. Cell Chemical Biology, 2018, 25, 380-391.e5. | 5.2 | 57 |
| 43 | Inhibition of Oxidative Stress and ALOX12 and NF-κB Pathways Contribute to the Protective Effect of Baicalein on Carbon Tetrachloride-Induced Acute Liver Injury. Antioxidants, 2021, 10, 976. | 5.1 | 55 |
| 44 | The Natural Product Curcumin as an Antibacterial Agent: Current Achievements and Problems. Antioxidants, 2022, 11, 459. | 5.1 | 55 |
| 45 | Imaging the distribution of polymyxins in the kidney. Journal of Antimicrobial Chemotherapy, 2015, 70, 827-829. | 3.0 | 54 |
| 46 | Significant Accumulation of Polymyxin in Single Renal Tubular Cells: A Medicinal Chemistry and Triple Correlative Microscopy Approach. Analytical Chemistry, 2015, 87, 1590-1595. | 6.5 | 54 |
| 47 | A synthetic lipopeptide targeting top-priority multidrug-resistant Gram-negative pathogens. Nature Communications, 2022, 13, 1625. | 12.8 | 53 |
| 48 | The Interaction of Lipophilic Drugs with Intestinal Fatty Acid-binding Protein. Journal of Biological Chemistry, 2005, 280, 17769-17776. | 3.4 | 52 |
| 49 | Comparative Metabolomics and Transcriptomics Reveal Multiple Pathways Associated with Polymyxin Killing in Pseudomonas aeruginosa. MSystems, 2019, 4, . | 3.8 | 52 |
| 50 | Methotrexate-Conjugated PEGylated Dendrimers Show Differential Patterns of Deposition and Activity in Tumor-Burdened Lymph Nodes after Intravenous and Subcutaneous Administration in Rats. Molecular Pharmaceutics, 2015, 12, 432-443. | 4.6 | 51 |
| 51 | 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. Journal of Antimicrobial Chemotherapy, 2017, 72, 2562-2569. | 3.0 | 51 |
| 52 | A Hydrogelâ€Based Localized Release of Colistin for Antimicrobial Treatment of Burn Wound Infection. Macromolecular Bioscience, 2017, 17, 1600320. | 4.1 | 51 |
| 53 | Regulating polymyxin resistance in Gram-negative bacteria: roles of two-component systems PhoPQ and PmrAB. Future Microbiology, 2020, 15, 445-459. | 2.0 | 51 |
| 54 | Fatty Acid-binding Proteins 1 and 2 Differentially Modulate the Activation of Peroxisome Proliferator-activated Receptor α in a Ligand-selective Manner. Journal of Biological Chemistry, 2015, 290, 13895-13906. | 3.4 | 49 |

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| 55 | Global metabolic analyses identify key differences in metabolite levels between polymyxin-susceptible and polymyxin-resistant Acinetobacter baumannii. Scientific Reports, 2016, 6, 22287. | 3.3 | 49 |
| 56 | T-2 toxin-induced toxicity in neuroblastoma-2a cells involves the generation of reactive oxygen, mitochondrial dysfunction and inhibition of Nrf2/HO-1 pathway. Food and Chemical Toxicology, 2018, 114, 88-97. | 3.6 | 49 |
| 57 | The antigenic architecture of the hemagglutinin of influenza H5N1 viruses. Molecular Immunology, 2013, 56, 705-719. | 2.2 | 47 |
| 58 | Minocycline attenuates colistin-induced neurotoxicity via suppression of apoptosis, mitochondrial dysfunction and oxidative stress. Journal of Antimicrobial Chemotherapy, 2017, 72, 1635-1645. | 3.0 | 46 |
| 59 | Design, synthesis, and evaluation of a new fluorescent probe for measuring polymyxin–lipopolysaccharide binding interactions. Analytical Biochemistry, 2011, 409, 273-283. | 2.4 | 45 |
| 60 | From Breast Cancer to Antimicrobial: Combating Extremely Resistant Gram-Negative "Superbugs―Using Novel Combinations of Polymyxin B with Selective Estrogen Receptor Modulators. Microbial Drug Resistance, 2017, 23, 640-650. | 2.0 | 45 |
| 61 | Molecular Mechanisms of Neurotoxicity Induced by Polymyxins and Chemoprevention. ACS Chemical Neuroscience, 2019, 10, 120-131. | 3.5 | 45 |
| 62 | Proteomic analysis of good- and poor-quality human sperm demonstrates that several proteins are routinely aberrantly regulated. Biology of Reproduction, 2018, 99, 395-408. | 2.7 | 44 |
| 63 | Genome-scale metabolic modeling of responses to polymyxins in <i>Pseudomonas aeruginosa</i> . GigaScience, 2018, 7, . | 6.4 | 44 |
| 64 | Colistin-Induced Apoptosis of Neuroblastoma-2a Cells Involves the Generation of Reactive Oxygen Species, Mitochondrial Dysfunction, and Autophagy. Molecular Neurobiology, 2016, 53, 4685-4700. | 4.0 | 43 |
| 65 | Inhalable liposomal powder formulations for co-delivery of synergistic ciprofloxacin and colistin against multi-drug resistant gram-negative lung infections. International Journal of Pharmaceutics, 2020, 575, 118915. | 5.2 | 43 |
| 66 | Structure–activity relationships for the binding of polymyxins with human α-1-acid glycoprotein. Biochemical Pharmacology, 2012, 84, 278-291. | 4.4 | 40 |
| 67 | Development of HPLC and LC–MS/MS methods for the analysis of ivacaftor, its major metabolites and lumacaftor in plasma and sputum of cystic fibrosis patients treated with ORKAMBI or KALYDECO. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1038, 57-62. | 2.3 | 39 |
| 68 | Analysis of Phosphopeptide Changes as Spermatozoa Acquire Functional Competence in the Epididymis Demonstrates Changes in the Post-translational Modification of Izumo1. Journal of Proteome Research, 2012, 11, 5252-5264. | 3.7 | 38 |
| 69 | Cationic acrylate oligomers comprising amino acid mimic moieties demonstrate improved antibacterial killing efficiency. Journal of Materials Chemistry B, 2017, 5, 531-536. | 5.8 | 38 |
| 70 | Examination of the Role of Intestinal Fatty Acid-Binding Protein in Drug Absorption Using a Parallel Artificial Membrane Permeability Assay. Chemistry and Biology, 2007, 14, 453-465. | 6.0 | 36 |
| 71 | Molecular basis for the increased polymyxin susceptibility of Klebsiella pneumoniae strains with under-acylated lipid A. Innate Immunity, 2013, 19, 265-277. | 2.4 | 36 |
| 72 | Developing an anion host for lipid A binding and antibacterial activity. Chemical Communications, 2010, 46, 3197. | 4.1 | 35 |

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| 73 | Polymyxins: Mode of Action. Advances in Experimental Medicine and Biology, 2019, 1145, 37-54. | 1.6 | 35 |
| 74 | Drug–drug plasma protein binding interactions of ivacaftor. Journal of Molecular Recognition, 2015, 28, 339-348. | 2.1 | 34 |
| 75 | Rediscovering the octapeptins. Natural Product Reports, 2017, 34, 295-309. | 10.3 | 34 |
| 76 | Potential Toxicity of Polymyxins in Human Lung Epithelial Cells. Antimicrobial Agents and Chemotherapy, 2017, 61, . | 3.2 | 34 |
| 77 | Novel Polymyxin Combination With Antineoplastic Mitotane Improved the Bacterial Killing Against Polymyxin-Resistant Multidrug-Resistant Gram-Negative Pathogens. Frontiers in Microbiology, 2018, 9, 721. | 3.5 | 34 |
| 78 | The Killing Mechanism of Teixobactin against Methicillin-Resistant Staphylococcus aureus: an Untargeted Metabolomics Study. MSystems, 2020, 5, . | 3.8 | 33 |
| 79 | The thermodynamics of Pr55Gag-RNA interaction regulate the assembly of HIV. PLoS Pathogens, 2017, 13, e1006221. | 4.7 | 33 |
| 80 | Aminoglycoside Concentrations Required for Synergy with Carbapenems against Pseudomonas aeruginosa Determined via Mechanistic Studies and Modeling. Antimicrobial Agents and Chemotherapy, 2017, 61, . | 3.2 | 31 |
| 81 | Polymyxins Bind to the Cell Surface of Unculturable <i>Acinetobacter baumannii</i> and Cause Unique Dependent Resistance. Advanced Science, 2020, 7, 2000704. | 11.2 | 31 |
| 82 | Deficiency in Outer Dense Fiber 1 Is a Marker and Potential Driver of Idiopathic Male Infertility. Molecular and Cellular Proteomics, 2016, 15, 3685-3693. | 3.8 | 30 |
| 83 | Structure–Activity Relationships of Daptomycin Lipopeptides. Journal of Medicinal Chemistry, 2020, 63, 13266-13290. | 6.4 | 30 |
| 84 | Polymyxins and Analogues Bind to Ribosomal RNA and Interfere with Eukaryotic Translation in Vitro. ChemBioChem, 2013, 14, 2083-2086. | 2.6 | 29 |
| 85 | Curcumin Attenuates Colistin-Induced Peripheral Neurotoxicity in Mice. ACS Infectious Diseases, 2020, 6, 715-724. | 3.8 | 29 |
| 86 | Metabolomics Study of the Synergistic Killing of Polymyxin B in Combination with Amikacin against Polymyxin-Susceptible and -Resistant Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2019, 64, . | 3.2 | 28 |
| 87 | Metabolic Responses to Polymyxin Treatment in <i>Acinetobacter baumannii</i> ATCC 19606: Integrating Transcriptomics and Metabolomics with Genome-Scale Metabolic Modeling. MSystems, 2019, 4, . | 3.8 | 28 |
| 88 | The carbohydrate-binding promiscuity of Euonymus europaeus lectin is predicted to involve a single binding site. Glycobiology, 2015, 25, 101-114. | 2.5 | 27 |
| 89 | Anthelmintic closantel enhances bacterial killing of polymyxin B against multidrug-resistant Acinetobacter baumannii. Journal of Antibiotics, 2016, 69, 415-421. | 2.0 | 27 |
| 90 | Characterization of the Polymyxin D Synthetase Biosynthetic Cluster and Product Profile of <i>Paenibacillus polymyxa</i> ATCC 10401. Journal of Natural Products, 2017, 80, 1264-1274. | 3.0 | 27 |

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| 91 | Cellular Uptake and Localization of Polymyxins in Renal Tubular Cells Using Rationally Designed Fluorescent Probes. Antimicrobial Agents and Chemotherapy, 2015, 59, 7489-7496. | 3.2 | 26 |
| 92 | Near-Atomic Three-Dimensional Mapping for Site-Specific Chemistry of â€~Superbugs'. Nano Letters, 2016, 16, 7113-7120. | 9.1 | 26 |
| 93 | Pharmacokinetics of the Individual Major Components of Polymyxin B and Colistin in Rats. Journal of Natural Products, 2017, 80, 225-229. | 3.0 | 26 |
| 94 | Mechanisms of Polymyxin-Induced Nephrotoxicity. Advances in Experimental Medicine and Biology, 2019, 1145, 305-319. | 1.6 | 26 |
| 95 | Synthesis and structureâ activity relationships of teixobactin. Annals of the New York Academy of Sciences, 2020, 1459, 86-105. | 3.8 | 26 |
| 96 | Polymyxins–Curcumin Combination Antimicrobial Therapy: Safety Implications and Efficacy for Infection Treatment. Antioxidants, 2020, 9, 506. | 5.1 | 26 |
| 97 | Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. ACS Infectious Diseases, 2017, 3, 606-619. | 3.8 | 25 |
| 98 | 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> . Journal of Antimicrobial Chemotherapy, 2020, 75, 3534-3543. | 3.0 | 25 |
| 99 | Drugâ€binding energetics of human αâ€1â€acid glycoprotein assessed by isothermal titration calorimetry and molecular docking simulations. Journal of Molecular Recognition, 2012, 25, 642-656. | 2.1 | 24 |
| 100 | Multifaceted mechanisms of colistin resistance revealed by genomic analysis of multidrug-resistant Klebsiella pneumoniae isolates from individual patients before and after colistin treatment. Journal of Infection, 2019, 79, 312-321. | 3.3 | 24 |
| 101 | Structural and Biochemical Characterization of the Oxidoreductase NmDsbA3 from Neisseria meningitidis. Journal of Biological Chemistry, 2008, 283, 32452-32461. | 3.4 | 23 |
| 102 | Molecular Characterization of Lipopolysaccharide Binding to Human <i>α</i> -1-Acid Glycoprotein. Journal of Lipids, 2012, 2012, 1-15. | 4.8 | 23 |
| 103 | Lipidomic Analysis of the Outer Membrane Vesicles from Paired Polymyxin-Susceptible and -Resistant Klebsiella pneumoniae Clinical Isolates. International Journal of Molecular Sciences, 2018, 19, 2356. | 4.1 | 23 |
| 104 | Non-ribosomal peptide synthetases as technological platforms for the synthesis of highly modified peptide bioeffectors – Cyclosporin synthetase as a complex example. Biotechnology Annual Review, 2003, 9, 151-197. | 2.1 | 22 |
| 105 | Mapping and Molecular Modeling ofS-Adenosyl-I-methionine Binding Sites inN-Methyltransferase Domains of the Multifunctional Polypeptide Cyclosporin Synthetase. Journal of Biological Chemistry, 2003, 278, 1137-1148. | 3.4 | 22 |
| 106 | History, Chemistry and Antibacterial Spectrum. Advances in Experimental Medicine and Biology, 2019, 1145, 15-36. | 1.6 | 22 |
| 107 | Probing the Flexibility of the DsbA Oxidoreductase from Vibrio cholerae—a 15N - 1H Heteronuclear NMR Relaxation Analysis of Oxidized and Reduced Forms of DsbA. Journal of Molecular Biology, 2007, 371, 703-716. | 4.2 | 21 |
| 108 | Characterization of the N-Methyltransferase Activities of the Multifunctional Polypeptide Cyclosporin Synthetase. Chemistry and Biology, 2011, 18, 464-475. | 6.0 | 21 |

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| 109 | The specificity of the influenza B virus hemagglutinin receptor binding pocket: what does it bind to?. Journal of Molecular Recognition, 2013, 26, 439-449. | 2.1 | 21 |
| 110 | The potentially beneficial central nervous system activity profile of ivacaftor and its metabolites. ERJ Open Research, 2018, 4, 00127-2017. | 2.6 | 21 |
| 111 | Comparative Metabolomics Reveals Key Pathways Associated With the Synergistic Killing of Colistin and Sulbactam Combination Against Multidrug-Resistant Acinetobacter baumannii. Frontiers in Pharmacology, 2019, 10, 754. | 3.5 | 21 |
| 112 | Interaction of Phthalates and Phenoxy Acid Herbicide Environmental Pollutants with Intestinal Intracellular Lipid Binding Proteins. Chemical Research in Toxicology, 2013, 26, 1240-1250. | 3.3 | 20 |
| 113 | Plasma Protein Binding Structure–Activity Relationships Related to the N-Terminus of Daptomycin. ACS Infectious Diseases, 2017, 3, 249-258. | 3.8 | 20 |
| 114 | Methionine Ameliorates Polymyxin-Induced Nephrotoxicity by Attenuating Cellular Oxidative Stress. Antimicrobial Agents and Chemotherapy, 2018, 62, . | 3.2 | 20 |
| 115 | Metabolic Analyses Revealed Time-Dependent Synergistic Killing by Colistin and Aztreonam Combination Against Multidrug-Resistant Acinetobacter baumannii. Frontiers in Microbiology, 2018, 9, 2776. | 3.5 | 20 |
| 116 | Composite particle formulations of colistin and meropenem with improved in-vitro bacterial killing and aerosolization for inhalation. International Journal of Pharmaceutics, 2018, 548, 443-453. | 5.2 | 20 |
| 117 | Effective Strategy Targeting Polymyxin-Resistant Gram-Negative Pathogens: Polymyxin B in Combination with the Selective Serotonin Reuptake Inhibitor Sertraline. ACS Infectious Diseases, 2020, 6, 1436-1450. | 3.8 | 20 |
| 118 | A Precision Medicine Approach to Optimize Modulator Therapy for Rare CFTR Folding Mutants. Journal of Personalized Medicine, 2021, 11, 643. | 2.5 | 20 |
| 119 | Analysis of Protein Thiol Changes Occurring During Rat Sperm Epididymal Maturation1. Biology of Reproduction, 2015, 92, 11. | 2.7 | 19 |
| 120 | Sputum Active Polymyxin Lipopeptides: Activity against Cystic FibrosisPseudomonas aeruginosalsolates and Their Interactions with Sputum Biomolecules. ACS Infectious Diseases, 2018, 4, 646-655. | 3.8 | 19 |
| 121 | Mechanistic Insights From Global Metabolomics Studies into Synergistic Bactericidal Effect of a Polymyxin B Combination With Tamoxifen Against Cystic Fibrosis MDR Pseudomonas aeruginosa. Computational and Structural Biotechnology Journal, 2018, 16, 587-599. | 4.1 | 19 |
| 122 | Outer Membranes of Polymyxin-Resistant <i>Acinetobacter baumannii</i> with Phosphoethanolamine-Modified Lipid A and Lipopolysaccharide Loss Display Different Atomic-Scale Interactions with Polymyxins. ACS Infectious Diseases, 2020, 6, 2698-2708. | 3.8 | 19 |
| 123 | Characterization of lipophilic drug binding to rat intestinal fatty acid binding protein. Molecular and Cellular Biochemistry, 2009, 326, 87-95. | 3.1 | 18 |
| 124 | Transcriptomic Analysis of the Activity of a Novel Polymyxin against Staphylococcus aureus. MSphere, 2016, 1, . | 2.9 | 18 |
| 125 | Gelofusine Ameliorates Colistin-Induced Nephrotoxicity. Antimicrobial Agents and Chemotherapy, 2017, 61, . | 3.2 | 18 |
| 126 | Comparative analysis of phosphoethanolamine transferases involved in polymyxin resistance across 10 clinically relevant Gram-negative bacteria. International Journal of Antimicrobial Agents, 2018, 51, 586-593. | 2.5 | 18 |

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| 127 | Structure–Interaction Relationship of Polymyxins with the Membrane of Human Kidney Proximal Tubular Cells. ACS Infectious Diseases, 2020, 6, 2110-2119. | 3.8 | 18 |
| 128 | Probing the Fibrate Binding Specificity of Rat Liver Fatty Acid Binding Protein. Journal of Medicinal Chemistry, 2009, 52, 5344-5355. | 6.4 | 17 |
| 129 | Synergistic Combination of Polymyxin B and Enrofloxacin Induced Metabolic Perturbations in Extensive Drug-Resistant Pseudomonas aeruginosa. Frontiers in Pharmacology, 2019, 10, 1146. | 3.5 | 17 |
| 130 | Polymyxin B combinations with FDA-approved non-antibiotic phenothiazine drugs targeting multi-drug resistance of Gram-negative pathogens. Computational and Structural Biotechnology Journal, 2020, 18, 2247-2258. | 4.1 | 17 |
| 131 | A Novel Chemical Biology Approach for Mapping of Polymyxin Lipopeptide Antibody Binding Epitopes. ACS Infectious Diseases, 2016, 2, 341-351. | 3.8 | 16 |
| 132 | Discovery of Novel Polymyxin-Like Antibiotics. Advances in Experimental Medicine and Biology, 2019, 1145, 343-362. | 1.6 | 16 |
| 133 | Novel Polymyxin Combination with the Antiretroviral Zidovudine Exerts Synergistic Killing against NDM-Producing Multidrug-Resistant Klebsiella pneumoniae. Antimicrobial Agents and Chemotherapy, 2019, 63, . | 3.2 | 16 |
| 134 | Comparative metabolomics reveals key pathways associated with the synergistic activity of polymyxin B and rifampicin combination against multidrug-resistant Acinetobacter baumannii. Biochemical Pharmacology, 2021, 184, 114400. | 4.4 | 16 |
| 135 | Quantitation of Polymyxin–Lipopolysaccharide Interactions Using an Image-Based Fluorescent Probe. Journal of Pharmaceutical Sciences, 2016, 105, 1006-1010. | 3.3 | 15 |
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| 137 | Polymyxin B in Combination with Enrofloxacin Exerts Synergistic Killing against Extensively Drug-Resistant Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2018, 62, . | 3.2 | 15 |
| 138 | A Comparative Study of Outer Membrane Proteome between Paired Colistin-Susceptible and Extremely Colistin-Resistant <i>Klebsiella pneumoniae</i> Strains. ACS Infectious Diseases, 2018, 4, 1692-1704. | 3.8 | 15 |
| 139 | Phosphopeptide Analysis of Rodent Epididymal Spermatozoa. Journal of Visualized Experiments, 2014, , . | 0.3 | 14 |
| 140 | Broad activity of diphenyleneiodonium analogues against Mycobacterium tuberculosis, malaria parasites and bacterial pathogens. European Journal of Medicinal Chemistry, 2018, 148, 507-518. | 5.5 | 14 |
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| 142 | Grapheneâ€Enhanced 3D Chemical Mapping of Biological Specimens at Nearâ€Atomic Resolution. Advanced Functional Materials, 2018, 28, 1801439. | 14.9 | 14 |
| 143 | Synergistic Killing of Polymyxin B in Combination With the Antineoplastic Drug Mitotane Against Polymyxin-Susceptible and -Resistant Acinetobacter baumannii: A Metabolomic Study. Frontiers in Pharmacology, 2018, 9, 359. | 3.5 | 14 |
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| 145 | Synergy of the Polymyxin-Chloramphenicol Combination against New Delhi Metallo-β-Lactamase-Producing <i>Klebsiella pneumoniae</i> Is Predominately Driven by Chloramphenicol. ACS Infectious Diseases, 2021, 7, 1584-1595. | 3.8 | 14 |
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