

Makrina Totsika

List of Publications by Year in descending order

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96
papers

5,898
citations

81743

39
h-index

82410

72
g-index

106
all docs

106
docs citations

106
times ranked

6991
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Global dissemination of a multidrug resistant <i>Escherichia coli</i> clone. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5694-5699. | 3.3 | 498 |
| 2 | Bacterial Biofilm Eradication Agents: A Current Review. Frontiers in Chemistry, 2019, 7, 824. | 1.8 | 338 |
| 3 | Host-pathogen checkpoints and population bottlenecks in persistent and intracellular uropathogenic <i>Escherichia coli</i> bladder infection. FEMS Microbiology Reviews, 2012, 36, 616-648. | 3.9 | 296 |
| 4 | DSB proteins and bacterial pathogenicity. Nature Reviews Microbiology, 2009, 7, 215-225. | 13.6 | 260 |
| 5 | Insights into a Multidrug Resistant <i>Escherichia coli</i> Pathogen of the Globally Disseminated ST131 Lineage: Genome Analysis and Virulence Mechanisms. PLoS ONE, 2011, 6, e26578. | 1.1 | 209 |
| 6 | Discovery of an archetypal protein transport system in bacterial outer membranes. Nature Structural and Molecular Biology, 2012, 19, 506-510. | 3.6 | 192 |
| 7 | Uropathogenic <i>Escherichia coli</i> virulence and innate immune responses during urinary tract infection. Current Opinion in Microbiology, 2013, 16, 100-107. | 2.3 | 179 |
| 8 | Chaperone-Usher Fimbriae of <i>Escherichia coli</i> . PLoS ONE, 2013, 8, e52835. | 1.1 | 179 |
| 9 | The Serum Resistome of a Globally Disseminated Multidrug Resistant Uropathogenic <i>Escherichia coli</i> Clone. PLoS Genetics, 2013, 9, e1003834. | 1.5 | 146 |
| 10 | Sortase A: An ideal target for anti-virulence drug development. Microbial Pathogenesis, 2014, 77, 105-112. | 1.3 | 145 |
| 11 | UpaG, a New Member of the Trimeric Autotransporter Family of Adhesins in Uropathogenic <i>Escherichia coli</i> . Journal of Bacteriology, 2008, 190, 4147-4161. | 1.0 | 128 |
| 12 | A FimH Inhibitor Prevents Acute Bladder Infection and Treats Chronic Cystitis Caused by Multidrug-Resistant Uropathogenic <i>Escherichia coli</i> ST131. Journal of Infectious Diseases, 2013, 208, 921-928. | 1.9 | 116 |
| 13 | The Complete Genome Sequence of <i>Escherichia coli</i> EC958: A High Quality Reference Sequence for the Globally Disseminated Multidrug Resistant <i>E. coli</i> O25b:H4-ST131 Clone. PLoS ONE, 2014, 9, e104400. | 1.1 | 116 |
| 14 | The antigen 43 structure reveals a molecular Velcro-like mechanism of autotransporter-mediated bacterial clumping. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 457-462. | 3.3 | 116 |
| 15 | Oral Microbiome: A New Biomarker Reservoir for Oral and Oropharyngeal Cancers. Theranostics, 2017, 7, 4313-4321. | 4.6 | 105 |
| 16 | The saliva microbiome profiles are minimally affected by collection method or DNA extraction protocols. Scientific Reports, 2017, 7, 8523. | 1.6 | 103 |
| 17 | Role of Capsule and O Antigen in the Virulence of Uropathogenic <i>Escherichia coli</i> . PLoS ONE, 2014, 9, e94786. | 1.1 | 98 |
| 18 | Uropathogenic <i>Escherichia coli</i> Mediated Urinary Tract Infection. Current Drug Targets, 2012, 13, 1386-1399. | 1.0 | 97 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Structure and Function of DsbA, a Key Bacterial Oxidative Folding Catalyst. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1729-1760. | 2.5 | 96 |
| 20 | Contribution of Siderophore Systems to Growth and Urinary Tract Colonization of Asymptomatic Bacteriuria <i>Escherichia coli</i> . <i>Infection and Immunity</i> , 2012, 80, 333-344. | 1.0 | 96 |
| 21 | Virulence properties of asymptomatic bacteriuria <i>Escherichia coli</i> . <i>International Journal of Medical Microbiology</i> , 2009, 299, 53-63. | 1.5 | 91 |
| 22 | The co-transcriptome of uropathogenic <i>Escherichia coli</i> infected mouse macrophages reveals new insights into host-pathogen interactions. <i>Cellular Microbiology</i> , 2015, 17, 730-746. | 1.1 | 90 |
| 23 | Innate Transcriptional Networks Activated in Bladder in Response to Uropathogenic <i>Escherichia coli</i> Drive Diverse Biological Pathways and Rapid Synthesis of IL-10 for Defense against Bacterial Urinary Tract Infection. <i>Journal of Immunology</i> , 2012, 188, 781-792. | 0.4 | 87 |
| 24 | The Performance of an Oral Microbiome Biomarker Panel in Predicting Oral Cavity and Oropharyngeal Cancers. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 267. | 1.8 | 83 |
| 25 | UpaH Is a Newly Identified Autotransporter Protein That Contributes to Biofilm Formation and Bladder Colonization by Uropathogenic <i>Escherichia coli</i> CFT073. <i>Infection and Immunity</i> , 2010, 78, 1659-1669. | 1.0 | 77 |
| 26 | Molecular Characterization of UpaB and UpaC, Two New Autotransporter Proteins of Uropathogenic <i>Escherichia coli</i> CFT073. <i>Infection and Immunity</i> , 2012, 80, 321-332. | 1.0 | 77 |
| 27 | Demonstration of regulatory cross-talk between P fimbriae and type 1 fimbriae in uropathogenic <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , 2006, 152, 1143-1153. | 0.7 | 76 |
| 28 | Strain- and host species-specific inflammasome activation, IL-1 β release, and cell death in macrophages infected with uropathogenic <i>Escherichia coli</i> . <i>Mucosal Immunology</i> , 2016, 9, 124-136. | 2.7 | 74 |
| 29 | Characterization of Two Homologous Disulfide Bond Systems Involved in Virulence Factor Biogenesis in Uropathogenic <i>Escherichia coli</i> CFT073. <i>Journal of Bacteriology</i> , 2009, 191, 3901-3908. | 1.0 | 71 |
| 30 | Molecular Analysis of the <i>Acinetobacter baumannii</i> Biofilm-Associated Protein. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6535-6543. | 1.4 | 68 |
| 31 | Molecular Characterization of the EhaG and UpaG Trimeric Autotransporter Proteins from Pathogenic <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 2179-2189. | 1.4 | 65 |
| 32 | Molecular analysis of type 3 fimbrial genes from <i>Escherichia coli</i> , <i>Klebsiella</i> and <i>Citrobacter</i> species. <i>BMC Microbiology</i> , 2010, 10, 183. | 1.3 | 64 |
| 33 | Intramacrophage survival of uropathogenic <i>Escherichia coli</i> : Differences between diverse clinical isolates and between mouse and human macrophages. <i>Immunobiology</i> , 2011, 216, 1164-1171. | 0.8 | 61 |
| 34 | Autotransporters of <i>Escherichia coli</i> : a sequence-based characterization. <i>Microbiology (United Kingdom)</i> , 2006, 152, 1143-1153. | 0.7 | 53 |
| 35 | Comparative proteomics of uropathogenic <i>Escherichia coli</i> during growth in human urine identify UCA-like (UCL) fimbriae as an adherence factor involved in biofilm formation and binding to uroepithelial cells. <i>Journal of Proteomics</i> , 2016, 131, 177-189. | 1.2 | 53 |
| 36 | The cytochrome bd-I respiratory oxidase augments survival of multidrug-resistant <i>Escherichia coli</i> during infection. <i>Scientific Reports</i> , 2016, 6, 35285. | 1.6 | 51 |

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|----|--|-----|-----------|
| 37 | Structural and Functional Characterization of Three DsbA Paralogues from <i>Salmonella enterica</i> Serovar Typhimurium. <i>Journal of Biological Chemistry</i> , 2010, 285, 18423-18432. | 1.6 | 47 |
| 38 | The <i>Escherichia coli</i> O157:H7 EhaB autotransporter protein binds to laminin and collagen I and induces a serum IgA response in O157:H7 challenged cattle. <i>Environmental Microbiology</i> , 2009, 11, 1803-1814. | 1.8 | 46 |
| 39 | Application of Fragment-Based Screening to the Design of Inhibitors of <i>Escherichia coli</i> DsbA. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2179-2184. | 7.2 | 46 |
| 40 | Benefits and Challenges of Antivirulence Antimicrobials at the Dawn of the Post-Antibiotic Era. <i>Drug Delivery Letters</i> , 2016, 6, 30-37. | 0.2 | 46 |
| 41 | Disarming pathogens: benefits and challenges of antimicrobials that target bacterial virulence instead of growth and viability. <i>Future Medicinal Chemistry</i> , 2017, 9, 267-269. | 1.1 | 44 |
| 42 | F9 Fimbriae of Uropathogenic <i>Escherichia coli</i> Are Expressed at Low Temperature and Recognise Gal β 1-3GlcNAc-Containing Glycans. <i>PLoS ONE</i> , 2014, 9, e93177. | 1.1 | 43 |
| 43 | Intestinal Colonization Traits of Pandemic Multidrug-Resistant <i>Escherichia coli</i> ST131. <i>Journal of Infectious Diseases</i> , 2018, 218, 979-990. | 1.9 | 42 |
| 44 | Combination Therapies for Biofilm Inhibition and Eradication: A Comparative Review of Laboratory and Preclinical Studies. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 850030. | 1.8 | 42 |
| 45 | Identification of Genes Important for Growth of Asymptomatic Bacteriuria <i>Escherichia coli</i> in Urine. <i>Infection and Immunity</i> , 2012, 80, 3179-3188. | 1.0 | 38 |
| 46 | Regulation of P-Fimbrial Phase Variation Frequencies in <i>Escherichia coli</i> CFT073. <i>Infection and Immunity</i> , 2007, 75, 3325-3334. | 1.0 | 37 |
| 47 | UafB is a serine-rich repeat adhesin of <i>Staphylococcus saprophyticus</i> that mediates binding to fibronectin, fibrinogen and human uroepithelial cells. <i>Microbiology (United Kingdom)</i> , 2011, 157, 1161-1175. | 0.7 | 36 |
| 48 | Inhibition of Diverse DsbA Enzymes in Multi-DsbA Encoding Pathogens. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 653-666. | 2.5 | 35 |
| 49 | The role of H4 flagella in <i>Escherichia coli</i> ST131 virulence. <i>Scientific Reports</i> , 2015, 5, 16149. | 1.6 | 34 |
| 50 | Regulatory interplay between <i>pap</i> operons in uropathogenic <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2008, 67, 996-1011. | 1.2 | 33 |
| 51 | Comparative analysis of the uropathogenic <i>Escherichia coli</i> surface proteome by tandem mass-spectrometry of artificially induced outer membrane vesicles. <i>Journal of Proteomics</i> , 2015, 115, 93-106. | 1.2 | 33 |
| 52 | Functional Heterogeneity of the UpaH Autotransporter Protein from Uropathogenic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2012, 194, 5769-5782. | 1.0 | 31 |
| 53 | Molecular Characterization of the Vacuolating Autotransporter Toxin in Uropathogenic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2016, 198, 1487-1498. | 1.0 | 31 |
| 54 | Comparative analysis of FimB and FimE recombinase activity. <i>Microbiology (United Kingdom)</i> , 2007, 153, 4138-4149. | 0.7 | 30 |

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|----|--|-----|-----------|
| 55 | <i>Escherichia coli</i> Isolates Causing Asymptomatic Bacteriuria in Catheterized and Noncatheterized Individuals Possess Similar Virulence Properties. <i>Journal of Clinical Microbiology</i> , 2010, 48, 2449-2458. | 1.8 | 30 |
| 56 | Molecular Characterization of Endocarditis-Associated <i>Staphylococcus aureus</i> . <i>Journal of Clinical Microbiology</i> , 2013, 51, 2131-2138. | 1.8 | 30 |
| 57 | Biofilm formation by multidrug resistant <i>Escherichia coli</i> ST131 is dependent on type 1 fimbriae and assay conditions. <i>Pathogens and Disease</i> , 2016, 74, ftw013. | 0.8 | 29 |
| 58 | Phage Library Screening for the Rapid Identification and In Vivo Testing of Candidate Genes for a DNA Vaccine against <i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> Small Colony Biotype. <i>Infection and Immunity</i> , 2006, 74, 167-174. | 1.0 | 27 |
| 59 | Molecular Characterization of <i>Escherichia coli</i> Strains That Cause Symptomatic and Asymptomatic Urinary Tract Infections. <i>Journal of Clinical Microbiology</i> , 2012, 50, 1027-1030. | 1.8 | 25 |
| 60 | <i>Escherichia coli</i> 83972 Expressing a P fimbriae Oligosaccharide Receptor Mimic Impairs Adhesion of Uropathogenic <i>E. coli</i> . <i>Journal of Infectious Diseases</i> , 2012, 206, 1242-1249. | 1.9 | 25 |
| 61 | Characterization of Ehaj, a New Autotransporter Protein from Enterohemorrhagic and Enteropathogenic <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2011, 2, 120. | 1.5 | 24 |
| 62 | Molecular Analysis of Asymptomatic Bacteriuria <i>Escherichia coli</i> Strain VR50 Reveals Adaptation to the Urinary Tract by Gene Acquisition. <i>Infection and Immunity</i> , 2015, 83, 1749-1764. | 1.0 | 24 |
| 63 | YeeJ is an inverse autotransporter from <i>Escherichia coli</i> that binds to peptidoglycan and promotes biofilm formation. <i>Scientific Reports</i> , 2017, 7, 11326. | 1.6 | 23 |
| 64 | Comprehensive analysis of type 1 fimbriae regulation in <i>fimB</i> null strains from the multidrug resistant <i>Escherichia coli</i> ST131 clone. <i>Molecular Microbiology</i> , 2016, 101, 1069-1087. | 1.2 | 21 |
| 65 | A shape-shifting redox foldase contributes to <i>Proteus mirabilis</i> copper resistance. <i>Nature Communications</i> , 2017, 8, 16065. | 5.8 | 21 |
| 66 | Characterisation of a cell wall-anchored protein of <i>Staphylococcus saprophyticus</i> associated with linoleic acid resistance. <i>BMC Microbiology</i> , 2012, 12, 8. | 1.3 | 19 |
| 67 | Nitroxide Functionalized Antibiotics Are Promising Eradication Agents against <i>Staphylococcus aureus</i> Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 64, . | 1.4 | 19 |
| 68 | Chemoradiation therapy changes oral microbiome and metabolomic profiles in patients with oral cavity cancer and oropharyngeal cancer. <i>Head and Neck</i> , 2021, 43, 1521-1534. | 0.9 | 17 |
| 69 | Rapid Elaboration of Fragments into Leads by X-ray Crystallographic Screening of Parallel Chemical Libraries (REFIL _X). <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6863-6875. | 2.9 | 16 |
| 70 | Experimental colonization of the canine urinary tract with the asymptomatic bacteriuria <i>Escherichia coli</i> strain 83972. <i>Veterinary Microbiology</i> , 2011, 147, 205-208. | 0.8 | 15 |
| 71 | <i>Moraxella catarrhalis</i> NucM is an entry nuclease involved in extracellular DNA and RNA degradation, cell competence and biofilm scaffolding. <i>Scientific Reports</i> , 2019, 9, 2579. | 1.6 | 15 |
| 72 | Eradicating uropathogenic <i>Escherichia coli</i> biofilms with a ciprofloxacin-dinitroxide conjugate. <i>MedChemComm</i> , 2019, 10, 699-711. | 3.5 | 12 |

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|----|---|-----|-----------|
| 73 | Thermoresponsive Polymer-antibiotic Conjugates Based on Gradient Copolymers of 2-Oxazoline and 2-Oxazine. <i>Biomacromolecules</i> , 2021, 22, 5185-5194. | 2.6 | 11 |
| 74 | The Wzi outer membrane protein mediates assembly of a tight capsular polysaccharide layer on the <i>Acinetobacter baumannii</i> cell surface. <i>Scientific Reports</i> , 2021, 11, 21741. | 1.6 | 10 |
| 75 | Development of 3D Printed Biodegradable Mesh with Antimicrobial Properties for Pelvic Organ Prolapse. <i>Polymers</i> , 2022, 14, 763. | 2.0 | 10 |
| 76 | Muramidases found in the foregut microbiome of the Tammar wallaby can direct cell aggregation and biofilm formation. <i>ISME Journal</i> , 2011, 5, 341-350. | 4.4 | 9 |
| 77 | Differential Regulation of the Surface-Exposed and Secreted SslE Lipoprotein in Extraintestinal Pathogenic <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2016, 11, e0162391. | 1.1 | 9 |
| 78 | Differential Afa/Dr Fimbriae Expression in the Multidrug-Resistant <i>Escherichia coli</i> ST131 Clone. <i>MBio</i> , 2022, 13, e0351921. | 1.8 | 9 |
| 79 | Expression and crystallization of SeDsbA, SeDsbL and SeSrgA from <i>Salmonella enterica</i> serovar Typhimurium. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 601-604. | 0.7 | 8 |
| 80 | Profluorescent Fluoroquinolone-Nitroxides for Investigating Antibiotic-bacterial Interactions. <i>Antibiotics</i> , 2019, 8, 19. | 1.5 | 8 |
| 81 | An in vitro Reconstructed Human Skin Equivalent Model to Study the Role of Skin Integration Around Percutaneous Devices Against Bacterial Infection. <i>Frontiers in Microbiology</i> , 2020, 11, 670. | 1.5 | 8 |
| 82 | Isothiazolone-nitroxide Hybrids with Activity against Antibiotic-Resistant <i>Staphylococcus aureus</i> Biofilms. <i>ACS Omega</i> , 2022, 7, 5300-5310. | 1.6 | 8 |
| 83 | Self-derived structure-disrupting peptides targeting methionine aminopeptidase in pathogenic bacteria: a new strategy to generate antimicrobial peptides. <i>FASEB Journal</i> , 2019, 33, 2095-2104. | 0.2 | 7 |
| 84 | <i>Salmonella enterica</i> BcfH Is a Trimeric Thioredoxin-Like Bifunctional Enzyme with Both Thiol Oxidase and Disulfide Isomerase Activities. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 21-39. | 2.5 | 7 |
| 85 | Elaboration of a benzofuran scaffold and evaluation of binding affinity and inhibition of <i>Escherichia coli</i> DsbA: A fragment-based drug design approach to novel antivirulence compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 45, 116315. | 1.4 | 7 |
| 86 | A high-throughput cell-based assay pipeline for the preclinical development of bacterial DsbA inhibitors as antivirulence therapeutics. <i>Scientific Reports</i> , 2021, 11, 1569. | 1.6 | 7 |
| 87 | Loss of β^2 -Ketoacyl Acyl Carrier Protein Synthase III Activity Restores Multidrug-Resistant <i>Escherichia coli</i> Sensitivity to Previously Ineffective Antibiotics. <i>MSphere</i> , 2022, 7, e0011722. | 1.3 | 7 |
| 88 | Structural bioinformatic analysis of DsbA proteins and their pathogenicity associated substrates. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 4725-4737. | 1.9 | 6 |
| 89 | A method for increasing electroporation competence of Gram-negative clinical isolates by polymyxin B nonapeptide. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 6 |
| 90 | Variation of Antigen 43 self-association modulates bacterial compacting within aggregates and biofilms. <i>Npj Biofilms and Microbiomes</i> , 2022, 8, 20. | 2.9 | 5 |

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|----|---|-----|-----------|
| 91 | Antivirulence DsbA inhibitors attenuate <i>Salmonella enterica</i> serovar Typhimurium fitness without detectable resistance. <i>FASEB BioAdvances</i> , 2021, 3, 231-242. | 1.3 | 3 |
| 92 | Selective Binding of Small Molecules to <i>Vibrio cholerae</i> DsbA Offers a Starting Point for the Design of Novel Antibacterials. <i>ChemMedChem</i> , 2022, 17, . | 1.6 | 3 |
| 93 | The suppressor of copper sensitivity protein C from <i>Caulobacter crescentus</i> is a trimeric disulfide isomerase that binds copper(I) with subpicomolar affinity. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 337-352. | 1.1 | 3 |
| 94 | Co-Occurrence of Multidrug Resistant <i>Klebsiella pneumoniae</i> Pathogenic Clones of Human Relevance in an Equine Pneumonia Case. <i>Microbiology Spectrum</i> , 2022, , e0215821. | 1.2 | 3 |
| 95 | Insights into the virulence mechanisms employed by multidrug resistant <i>Escherichia coli</i> pathogens belonging to the globally disseminated ST131 lineage. <i>Frontiers in Immunology</i> , 0, 2, . | 2.2 | 0 |
| 96 | Abstract 577: Oral microbiome biomarker panel to detect oral and oropharyngeal cancers in a clinical setting. , 2018, , . | | 0 |