

Makrina Totsika

List of Publications by Year in descending order

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96
papers

5,898
citations

81900

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82547

72
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106
all docs

106
docs citations

106
times ranked

6991
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Binding of Small Molecules to <i>Vibrio cholerae</i> DsbA Offers a Starting Point for the Design of Novel Antibacterials. ChemMedChem, 2022, 17, .	3.2	3
2	Differential Afa/Dr Fimbriae Expression in the Multidrug-Resistant Escherichia coli ST131 Clone. MBio, 2022, 13, e0351921.	4.1	9
3	Isothiazolone–Nitroxide Hybrids with Activity against Antibiotic-Resistant Staphylococcus aureus Biofilms. ACS Omega, 2022, 7, 5300-5310.	3.5	8
4	Combination Therapies for Biofilm Inhibition and Eradication: A Comparative Review of Laboratory and Preclinical Studies. Frontiers in Cellular and Infection Microbiology, 2022, 12, 850030.	3.9	42
5	Development of 3D Printed Biodegradable Mesh with Antimicrobial Properties for Pelvic Organ Prolapse. Polymers, 2022, 14, 763.	4.5	10
6	The suppressor of copper sensitivity protein C from <i>Caulobacter crescentus</i> is a trimeric disulfide isomerase that binds copper(I) with subpicomolar affinity. Acta Crystallographica Section D: Structural Biology, 2022, 78, 337-352.	2.3	3
7	Variation of Antigen 43 self-association modulates bacterial compacting within aggregates and biofilms. Npj Biofilms and Microbiomes, 2022, 8, 20.	6.4	5
8	Co-Occurrence of Multidrug Resistant Klebsiella pneumoniae Pathogenic Clones of Human Relevance in an Equine Pneumonia Case. Microbiology Spectrum, 2022, , e0215821.	3.0	3
9	Loss of β^2 -Ketoacyl Acyl Carrier Protein Synthase III Activity Restores Multidrug-Resistant Escherichia coli Sensitivity to Previously Ineffective Antibiotics. MSphere, 2022, 7, e0011722.	2.9	7
10	A method for increasing electroporation competence of Gram-negative clinical isolates by polymyxin B nonapeptide. Scientific Reports, 2022, 12, .	3.3	6
11	Chemoradiation therapy changes oral microbiome and metabolomic profiles in patients with oral cavity cancer and oropharyngeal cancer. Head and Neck, 2021, 43, 1521-1534.	2.0	17
12	Antivirulence DsbA inhibitors attenuate <i>Salmonella enterica</i> serovar Typhimurium fitness without detectable resistance. FASEB BioAdvances, 2021, 3, 231-242.	2.4	3
13	<i>Salmonella enterica</i> BcfH Is a Trimeric Thioredoxin-Like Bifunctional Enzyme with Both Thiol Oxidase and Disulfide Isomerase Activities. Antioxidants and Redox Signaling, 2021, 35, 21-39.	5.4	7
14	Elaboration of a benzofuran scaffold and evaluation of binding affinity and inhibition of Escherichia coli DsbA: A fragment-based drug design approach to novel antivirulence compounds. Bioorganic and Medicinal Chemistry, 2021, 45, 116315.	3.0	7
15	Structural bioinformatic analysis of DsbA proteins and their pathogenicity associated substrates. Computational and Structural Biotechnology Journal, 2021, 19, 4725-4737.	4.1	6
16	A high-throughput cell-based assay pipeline for the preclinical development of bacterial DsbA inhibitors as antivirulence therapeutics. Scientific Reports, 2021, 11, 1569.	3.3	7
17	The Wzi outer membrane protein mediates assembly of a tight capsular polysaccharide layer on the Acinetobacter baumannii cell surface. Scientific Reports, 2021, 11, 21741.	3.3	10
18	Thermoresponsive Polymer–Antibiotic Conjugates Based on Gradient Copolymers of 2-Oxazoline and 2-Oxazine. Biomacromolecules, 2021, 22, 5185-5194.	5.4	11

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19	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.	3.5	8
20	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.	6.4	16
21	Profluorescent Fluoroquinolone-Nitroxides for Investigating Antibiotic-Bacterial Interactions. <i>Antibiotics</i> , 2019, 8, 19.	3.7	8
22	Eradicating uropathogenic <i>Escherichia coli</i> biofilms with a ciprofloxacin-dinitroxide conjugate. <i>MedChemComm</i> , 2019, 10, 699-711.	3.4	12
23	<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.	3.3	15
24	Bacterial Biofilm Eradication Agents: A Current Review. <i>Frontiers in Chemistry</i> , 2019, 7, 824.	3.6	338
25	Nitroxide Functionalized Antibiotics Are Promising Eradication Agents against <i>Staphylococcus aureus</i> Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 64, .	3.2	19
26	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.	0.5	7
27	Intestinal Colonization Traits of Pandemic Multidrug-Resistant <i>Escherichia coli</i> ST131. <i>Journal of Infectious Diseases</i> , 2018, 218, 979-990.	4.0	42
28	Inhibition of Diverse DsbA Enzymes in Multi-DsbA Encoding Pathogens. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 653-666.	5.4	35
29	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.	3.9	83
30	Abstract 577: Oral microbiome biomarker panel to detect oral and oropharyngeal cancers in a clinical setting. , 2018, , .		0
31	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.	2.3	44
32	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.	3.3	23
33	The saliva microbiome profiles are minimally affected by collection method or DNA extraction protocols. <i>Scientific Reports</i> , 2017, 7, 8523.	3.3	103
34	A shape-shifting redox foldase contributes to <i>Proteus mirabilis</i> copper resistance. <i>Nature Communications</i> , 2017, 8, 16065.	12.8	21
35	Oral Microbiome: A New Biomarker Reservoir for Oral and Oropharyngeal Cancers. <i>Theranostics</i> , 2017, 7, 4313-4321.	10.0	105
36	Benefits and Challenges of Antivirulence Antimicrobials at the Dawn of the Post-Antibiotic Era. <i>Drug Delivery Letters</i> , 2016, 6, 30-37.	0.5	46

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37	Differential Regulation of the Surface-Exposed and Secreted SsE Lipoprotein in Extraintestinal Pathogenic <i>Escherichia coli</i> . PLoS ONE, 2016, 11, e0162391.	2.5	9
38	Comprehensive analysis of type 1 fimbriae regulation in <i>fimB</i> null strains from the multidrug resistant <i>Escherichia coli</i> ST131 clone. Molecular Microbiology, 2016, 101, 1069-1087.	2.5	21
39	The cytochrome bd-I respiratory oxidase augments survival of multidrug-resistant <i>Escherichia coli</i> during infection. Scientific Reports, 2016, 6, 35285.	3.3	51
40	Strain- and host species-specific inflammasome activation, IL-1 β release, and cell death in macrophages infected with uropathogenic <i>Escherichia coli</i> . Mucosal Immunology, 2016, 9, 124-136.	6.0	74
41	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. Journal of Proteomics, 2016, 131, 177-189.	2.4	53
42	Molecular Characterization of the Vacuolating Autotransporter Toxin in Uropathogenic <i>Escherichia coli</i> . Journal of Bacteriology, 2016, 198, 1487-1498.	2.2	31
43	Biofilm formation by multidrug resistant <i>Escherichia coli</i> ST131 is dependent on type 1 fimbriae and assay conditions. Pathogens and Disease, 2016, 74, ftw013.	2.0	29
44	The role of H4 flagella in <i>Escherichia coli</i> ST131 virulence. Scientific Reports, 2015, 5, 16149.	3.3	34
45	Application of Fragment-Based Screening to the Design of Inhibitors of <i>Escherichia coli</i> DsbA. Angewandte Chemie - International Edition, 2015, 54, 2179-2184.	13.8	46
46	Comparative analysis of the uropathogenic <i>Escherichia coli</i> surface proteome by tandem mass-spectrometry of artificially induced outer membrane vesicles. Journal of Proteomics, 2015, 115, 93-106.	2.4	33
47	Molecular Analysis of Asymptomatic Bacteriuria <i>Escherichia coli</i> Strain VR50 Reveals Adaptation to the Urinary Tract by Gene Acquisition. Infection and Immunity, 2015, 83, 1749-1764.	2.2	24
48	The co-transcriptome of uropathogenic <i>Escherichia coli</i> infected mouse macrophages reveals new insights into host-pathogen interactions. Cellular Microbiology, 2015, 17, 730-746.	2.1	90
49	F9 Fimbriae of Uropathogenic <i>Escherichia coli</i> Are Expressed at Low Temperature and Recognise Gal β 1-3GlcNAc-Containing Glycans. PLoS ONE, 2014, 9, e93177.	2.5	43
50	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.	2.5	116
51	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.	7.1	498
52	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.	7.1	116
53	Sortase A: An ideal target for anti-virulence drug development. Microbial Pathogenesis, 2014, 77, 105-112.	2.9	145
54	Role of Capsule and O Antigen in the Virulence of Uropathogenic <i>Escherichia coli</i> . PLoS ONE, 2014, 9, e94786.	2.5	98

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55	Uropathogenic <i>Escherichia coli</i> virulence and innate immune responses during urinary tract infection. <i>Current Opinion in Microbiology</i> , 2013, 16, 100-107.	5.1	179
56	Molecular Analysis of the <i>Acinetobacter baumannii</i> Biofilm-Associated Protein. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6535-6543.	3.1	68
57	The Serum Resistome of a Globally Disseminated Multidrug Resistant Uropathogenic <i>Escherichia coli</i> Clone. <i>PLoS Genetics</i> , 2013, 9, e1003834.	3.5	146
58	Molecular Characterization of Endocarditis-Associated <i>Staphylococcus aureus</i> . <i>Journal of Clinical Microbiology</i> , 2013, 51, 2131-2138.	3.9	30
59	A FimH Inhibitor Prevents Acute Bladder Infection and Treats Chronic Cystitis Caused by Multidrug-Resistant Uropathogenic <i>Escherichia coli</i> ST131. <i>Journal of Infectious Diseases</i> , 2013, 208, 921-928.	4.0	116
60	Chaperone-Usher Fimbriae of <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2013, 8, e52835.	2.5	179
61	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.	3.1	65
62	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.	3.9	25
63	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.	0.8	87
64	Functional Heterogeneity of the UpaH Autotransporter Protein from Uropathogenic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2012, 194, 5769-5782.	2.2	31
65	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.	2.2	96
66	Uropathogenic <i>Escherichia coli</i> Mediated Urinary Tract Infection. <i>Current Drug Targets</i> , 2012, 13, 1386-1399.	2.1	97
67	<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.	4.0	25
68	Identification of Genes Important for Growth of Asymptomatic Bacteriuria <i>Escherichia coli</i> in Urine. <i>Infection and Immunity</i> , 2012, 80, 3179-3188.	2.2	38
69	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.	2.2	77
70	Characterisation of a cell wall-anchored protein of <i>Staphylococcus saprophyticus</i> associated with linoleic acid resistance. <i>BMC Microbiology</i> , 2012, 12, 8.	3.3	19
71	Discovery of an archetypal protein transport system in bacterial outer membranes. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 506-510.	8.2	192
72	Host-pathogen checkpoints and population bottlenecks in persistent and intracellular uropathogenic <i>Escherichia coli</i> bladder infection. <i>FEMS Microbiology Reviews</i> , 2012, 36, 616-648.	8.6	296

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73	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.	1.9	61
74	Characterization of EhaJ, a New Autotransporter Protein from Enterohemorrhagic and Enteropathogenic <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2011, 2, 120.	3.5	24
75	Insights into a Multidrug Resistant <i>Escherichia coli</i> Pathogen of the Globally Disseminated ST131 Lineage: Genome Analysis and Virulence Mechanisms. <i>PLoS ONE</i> , 2011, 6, e26578.	2.5	209
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.	9.8	9
77	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.	1.9	15
78	Structure and Function of DsbA, a Key Bacterial Oxidative Folding Catalyst. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1729-1760.	5.4	96
79	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.	1.8	36
80	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.	3.3	64
81	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
82	<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.	3.9	30
83	Autotransporters of <i>Escherichia coli</i> : a sequence-based characterization. <i>Microbiology (United Kingdom)</i> , 2010, 154, 1071-1081.	1.8	53
84	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.	3.4	47
85	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.	2.2	77
86	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.	2.2	71
87	DSB proteins and bacterial pathogenicity. <i>Nature Reviews Microbiology</i> , 2009, 7, 215-225.	28.6	260
88	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.	3.8	46
89	Virulence properties of asymptomatic bacteriuria <i>Escherichia coli</i> . <i>International Journal of Medical Microbiology</i> , 2009, 299, 53-63.	3.6	91
90	Regulatory interplay between <i>pap</i> operons in uropathogenic <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2008, 67, 996-1011.	2.5	33

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91	UpaG, a New Member of the Trimeric Autotransporter Family of Adhesins in Uropathogenic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2008, 190, 4147-4161.	2.2	128
92	Comparative analysis of FimB and FimE recombinase activity. <i>Microbiology (United Kingdom)</i> , 2007, 153, 4138-4149.	1.8	30
93	Regulation of P-Fimbrial Phase Variation Frequencies in <i>Escherichia coli</i> CFT073. <i>Infection and Immunity</i> , 2007, 75, 3325-3334.	2.2	37
94	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.	1.8	76
95	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.	2.2	27
96	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, .	4.8	0