

Makrina Totsika

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

4,258
citations

37
h-index

64
g-index

106
ext. papers

5,240
ext. citations

5.7
avg, IF

5.51
L-index

#	Paper	IF	Citations
91	Differential Afa/Dr Fimbriae Expression in the Multidrug-Resistant Escherichia coli ST131 Clone.. <i>MBio</i> , 2022 , e0351921	7.8	2
90	Isothiazolone-Nitroxide Hybrids with Activity against Antibiotic-Resistant Biofilms.. <i>ACS Omega</i> , 2022 , 7, 5300-5310	3.9	0
89	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	5.9	4
88	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	5.5	0
87	Variation of Antigen 43 self-association modulates bacterial compacting within aggregates and biofilms.. <i>Npj Biofilms and Microbiomes</i> , 2022 , 8, 20	8.2	1
86	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	8.9	0
85	Loss of β Ketoacyl Acyl Carrier Protein Synthase III Activity Restores Multidrug-Resistant <i>Escherichia coli</i> Sensitivity to Previously Ineffective Antibiotics.. <i>MSphere</i> , 2022 , e0011722	5	0
84	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	4.9	2
83	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	4.2	3
82	Antivirulence DsbA inhibitors attenuate serovar Typhimurium fitness without detectable resistance. <i>FASEB BioAdvances</i> , 2021 , 3, 231-242	2.8	2
81	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	8.4	4
80	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	3.4	5
79	Structural bioinformatic analysis of DsbA proteins and their pathogenicity associated substrates. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 4725-4737	6.8	2
78	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	4.9	4
77	An 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	5.7	1
76	Rapid Elaboration of Fragments into Leads by X-ray Crystallographic Screening of Parallel Chemical Libraries (REFIL). <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 6863-6875	8.3	9
75	Profluorescent Fluoroquinolone-Nitroxides for Investigating Antibiotic?Bacterial Interactions. <i>Antibiotics</i> , 2019 , 8,	4.9	5

74	Eradicating uropathogenic biofilms with a ciprofloxacin-dinitroxide conjugate. <i>MedChemComm</i> , 2019 , 10, 699-711	5	7
73	Moraxella catarrhalis NucM is an entry nuclease involved in extracellular DNA and RNA degradation, cell competence and biofilm scaffolding. <i>Scientific Reports</i> , 2019 , 9, 2579	4.9	9
72	Bacterial Biofilm Eradication Agents: A Current Review. <i>Frontiers in Chemistry</i> , 2019 , 7, 824	5	171
71	Nitroxide Functionalized Antibiotics Are Promising Eradication Agents against Staphylococcus aureus Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 64,	5.9	7
70	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	0.9	5
69	Intestinal Colonization Traits of Pandemic Multidrug-Resistant Escherichia coli ST131. <i>Journal of Infectious Diseases</i> , 2018 , 218, 979-990	7	24
68	Inhibition of Diverse DsbA Enzymes in Multi-DsbA Encoding Pathogens. <i>Antioxidants and Redox Signaling</i> , 2018 , 29, 653-666	8.4	24
67	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	5.9	54
66	YeeJ is an inverse autotransporter from Escherichia coli that binds to peptidoglycan and promotes biofilm formation. <i>Scientific Reports</i> , 2017 , 7, 11326	4.9	12
65	The saliva microbiome profiles are minimally affected by collection method or DNA extraction protocols. <i>Scientific Reports</i> , 2017 , 7, 8523	4.9	62
64	A shape-shifting redox foldase contributes to Proteus mirabilis copper resistance. <i>Nature Communications</i> , 2017 , 8, 16065	17.4	15
63	Oral Microbiome: A New Biomarker Reservoir for Oral and Oropharyngeal Cancers. <i>Theranostics</i> , 2017 , 7, 4313-4321	12.1	60
62	The cytochrome bd-I respiratory oxidase augments survival of multidrug-resistant Escherichia coli during infection. <i>Scientific Reports</i> , 2016 , 6, 35285	4.9	34
61	Strain- and host species-specific inflammasome activation, IL-1 β release, and cell death in macrophages infected with uropathogenic Escherichia coli. <i>Mucosal Immunology</i> , 2016 , 9, 124-36	9.2	57
60	Comparative proteomics of uropathogenic Escherichia coli 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	3.9	38
59	Molecular Characterization of the Vacuolating Autotransporter Toxin in Uropathogenic Escherichia coli. <i>Journal of Bacteriology</i> , 2016 , 198, 1487-98	3.5	21
58	Biofilm formation by multidrug resistant Escherichia coli ST131 is dependent on type 1 fimbriae and assay conditions. <i>Pathogens and Disease</i> , 2016 , 74,	4.2	16
57	Benefits and Challenges of Antivirulence Antimicrobials at the Dawn of the Post-Antibiotic Era. <i>Drug Delivery Letters</i> , 2016 , 6, 30-37	0.8	26

56	Differential Regulation of the Surface-Exposed and Secreted SslE Lipoprotein in Extraintestinal Pathogenic Escherichia coli. <i>PLoS ONE</i> , 2016 , 11, e0162391	3.7	8
55	Comprehensive analysis of type 1 fimbriae regulation in fimbB-null strains from the multidrug resistant Escherichia coli ST131 clone. <i>Molecular Microbiology</i> , 2016 , 101, 1069-87	4.1	13
54	The co-transcriptome of uropathogenic Escherichia coli-infected mouse macrophages reveals new insights into host-pathogen interactions. <i>Cellular Microbiology</i> , 2015 , 17, 730-46	3.9	55
53	The role of H4 flagella in Escherichia coli ST131 virulence. <i>Scientific Reports</i> , 2015 , 5, 16149	4.9	24
52	Application of fragment-based screening to the design of inhibitors of Escherichia coli DsbA. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2179-84	16.4	36
51	Comparative analysis of the uropathogenic Escherichia coli surface proteome by tandem mass-spectrometry of artificially induced outer membrane vesicles. <i>Journal of Proteomics</i> , 2015 , 115, 93-106	3.9	26
50	Molecular analysis of asymptomatic bacteriuria Escherichia coli strain VR50 reveals adaptation to the urinary tract by gene acquisition. <i>Infection and Immunity</i> , 2015 , 83, 1749-64	3.7	20
49	Application of Fragment-Based Screening to the Design of Inhibitors of Escherichia coli DsbA. <i>Angewandte Chemie</i> , 2015 , 127, 2207-2212	3.6	2
48	Sortase A: an ideal target for anti-virulence drug development. <i>Microbial Pathogenesis</i> , 2014 , 77, 105-12	3.8	106
47	F9 fimbriae of uropathogenic Escherichia coli are expressed at low temperature and recognise Gal β -3GlcNAc-containing glycans. <i>PLoS ONE</i> , 2014 , 9, e93177	3.7	30
46	The complete genome sequence of Escherichia coli EC958: a high quality reference sequence for the globally disseminated multidrug resistant E. coli O25b:H4-ST131 clone. <i>PLoS ONE</i> , 2014 , 9, e104400	3.7	75
45	Global dissemination of a multidrug resistant Escherichia coli clone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5694-9	11.5	354
44	The antigen 43 structure reveals a molecular Velcro-like mechanism of autotransporter-mediated bacterial clumping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 457-62	11.5	88
43	Role of capsule and O antigen in the virulence of uropathogenic Escherichia coli. <i>PLoS ONE</i> , 2014 , 9, e94786	3.7	63
42	Uropathogenic Escherichia coli virulence and innate immune responses during urinary tract infection. <i>Current Opinion in Microbiology</i> , 2013 , 16, 100-7	7.9	136
41	Molecular analysis of the Acinetobacter baumannii biofilm-associated protein. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 6535-43	4.8	49
40	The serum resistome of a globally disseminated multidrug resistant uropathogenic Escherichia coli clone. <i>PLoS Genetics</i> , 2013 , 9, e1003834	6	106
39	Molecular characterization of endocarditis-associated Staphylococcus aureus. <i>Journal of Clinical Microbiology</i> , 2013 , 51, 2131-8	9.7	20

38	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, 921-8		96
37	Chaperone-usher fimbriae of <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2013 , 8, e52835	3.7	111
36	Host-pathogen checkpoints and population bottlenecks in persistent and intracellular uropathogenic <i>Escherichia coli</i> bladder infection. <i>FEMS Microbiology Reviews</i> , 2012 , 36, 616-48	15.1	231
35	Identification of genes important for growth of asymptomatic bacteriuria <i>Escherichia coli</i> in urine. <i>Infection and Immunity</i> , 2012 , 80, 3179-88	3.7	30
34	Molecular characterization of UpaB and UpaC, two new autotransporter proteins of uropathogenic <i>Escherichia coli</i> CFT073. <i>Infection and Immunity</i> , 2012 , 80, 321-32	3.7	66
33	Characterisation of a cell wall-anchored protein of <i>Staphylococcus saprophyticus</i> associated with linoleic acid resistance. <i>BMC Microbiology</i> , 2012 , 12, 8	4.5	15
32	Discovery of an archetypal protein transport system in bacterial outer membranes. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 506-10, S1	17.6	157
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, 2179-89	4.8	56
30	Molecular characterization of <i>Escherichia coli</i> strains that cause symptomatic and asymptomatic urinary tract infections. <i>Journal of Clinical Microbiology</i> , 2012 , 50, 1027-30	9.7	22
29	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, 781-92	5.3	71
28	Functional heterogeneity of the UpaH autotransporter protein from uropathogenic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2012 , 194, 5769-82	3.5	28
27	Contribution of siderophore systems to growth and urinary tract colonization of asymptomatic bacteriuria <i>Escherichia coli</i> . <i>Infection and Immunity</i> , 2012 , 80, 333-44	3.7	76
26	Uropathogenic <i>Escherichia coli</i> mediated urinary tract infection. <i>Current Drug Targets</i> , 2012 , 13, 1386-99	3	71
25	<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, 1242-9	7	20
24	Intramacrophage survival of uropathogenic <i>Escherichia coli</i> : differences between diverse clinical isolates and between mouse and human macrophages. <i>Immunobiology</i> , 2011 , 216, 1164-71	3.4	49
23	Characterization of EhaJ, a New Autotransporter Protein from Enterohemorrhagic and Enteropathogenic <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2011 , 2, 120	5.7	22
22	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	3.7	149
21	Muramidases found in the foregut microbiome of the Tamar wallaby can direct cell aggregation and biofilm formation. <i>ISME Journal</i> , 2011 , 5, 341-50	11.9	7

20	Experimental colonization of the canine urinary tract with the asymptomatic bacteriuria Escherichia coli strain 83972. <i>Veterinary Microbiology</i> , 2011 , 147, 205-8	3.3	11
19	Structure and function of DsbA, a key bacterial oxidative folding catalyst. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 1729-60	8.4	86
18	UafB is a serine-rich repeat adhesin of Staphylococcus saprophyticus that mediates binding to fibronectin, fibrinogen and human uroepithelial cells. <i>Microbiology (United Kingdom)</i> , 2011 , 157, 1161-1179	3.7	29
17	Escherichia coli isolates causing asymptomatic bacteriuria in catheterized and noncatheterized individuals possess similar virulence properties. <i>Journal of Clinical Microbiology</i> , 2010 , 48, 2449-58	9.7	24
16	Autotransporters of Escherichia coli: a sequence-based characterization. <i>Microbiology (United Kingdom)</i> , 2010 , 156, 2459-2469	2.9	47
15	Structural and functional characterization of three DsbA paralogues from Salmonella enterica serovar typhimurium. <i>Journal of Biological Chemistry</i> , 2010 , 285, 18423-32	5.4	41
14	UpaH is a newly identified autotransporter protein that contributes to biofilm formation and bladder colonization by uropathogenic Escherichia coli CFT073. <i>Infection and Immunity</i> , 2010 , 78, 1659-69	3.7	70
13	Molecular analysis of type 3 fimbrial genes from Escherichia coli, Klebsiella and Citrobacter species. <i>BMC Microbiology</i> , 2010 , 10, 183	4.5	39
12	Expression and crystallization of SeDsbA, SeDsbL and SeSrgA from Salmonella enterica serovar Typhimurium. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010 , 66, 601-4		7
11	Characterization of two homologous disulfide bond systems involved in virulence factor biogenesis in uropathogenic Escherichia coli CFT073. <i>Journal of Bacteriology</i> , 2009 , 191, 3901-8	3.5	60
10	DSB proteins and bacterial pathogenicity. <i>Nature Reviews Microbiology</i> , 2009 , 7, 215-25	22.2	217
9	The Escherichia coli 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, 1803-14	5.2	40
8	Virulence properties of asymptomatic bacteriuria Escherichia coli. <i>International Journal of Medical Microbiology</i> , 2009 , 299, 53-63	3.7	78
7	Regulatory interplay between pap operons in uropathogenic Escherichia coli. <i>Molecular Microbiology</i> , 2008 , 67, 996-1011	4.1	29
6	UpaG, a new member of the trimeric autotransporter family of adhesins in uropathogenic Escherichia coli. <i>Journal of Bacteriology</i> , 2008 , 190, 4147-61	3.5	119
5	Comparative analysis of FimB and FimE recombinase activity. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 4138-4149	2.9	26
4	Regulation of P-fimbrial phase variation frequencies in Escherichia coli CFT073. <i>Infection and Immunity</i> , 2007 , 75, 3325-34	3.7	34
3	Demonstration of regulatory cross-talk between P fimbriae and type 1 fimbriae in uropathogenic Escherichia coli. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 1143-1153	2.9	67

- 2 Phage library screening for the rapid identification and in vivo testing of candidate genes for a DNA vaccine against *Mycoplasma mycoides* subsp. *mycoides* small colony biotype. *Infection and Immunity* , **2006**, 74, 167-74 3.7 25
- 1 Nitroxide functionalized antibiotics are promising eradication agents against *Staphylococcus aureus* biofilms 1