Makrina Totsika

List of Publications by Year
in descending order

96 papers	5,898 citations	81900 39 h-index	82547 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 Escherichia coli clone. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5694-5699.	7.1	498
2	Bacterial Biofilm Eradication Agents: A Current Review. Frontiers in Chemistry, 2019, 7, 824.	3.6	338
3	Hostâ€"pathogen checkpoints and population bottlenecks in persistent and intracellular uropathogenicEscherichia colibladder infection. FEMS Microbiology Reviews, 2012, 36, 616-648.	8.6	296
4	DSB proteins and bacterial pathogenicity. Nature Reviews Microbiology, 2009, 7, 215-225.	28.6	260
5	Insights into a Multidrug Resistant Escherichia coli Pathogen of the Globally Disseminated ST131 Lineage: Genome Analysis and Virulence Mechanisms. PLoS ONE, 2011, 6, e26578.	2.5	209
6	Discovery of an archetypal protein transport system in bacterial outer membranes. Nature Structural and Molecular Biology, 2012, 19, 506-510.	8.2	192
7	Uropathogenic Escherichia coli virulence and innate immune responses during urinary tract infection. Current Opinion in Microbiology, 2013, 16, 100-107.	5.1	179
8	Chaperone-Usher Fimbriae of Escherichia coli. PLoS ONE, 2013, 8, e52835.	2.5	179
9	The Serum Resistome of a Globally Disseminated Multidrug Resistant Uropathogenic Escherichia coli Clone. PLoS Genetics, 2013, 9, e1003834.	3.5	146
10	Sortase A: An ideal target for anti-virulence drug development. Microbial Pathogenesis, 2014, 77, 105-112.	2.9	145
11	UpaG, a New Member of the Trimeric Autotransporter Family of Adhesins in UropathogenicEscherichia coli. Journal of Bacteriology, 2008, 190, 4147-4161.	2.2	128
12	A FimH Inhibitor Prevents Acute Bladder Infection and Treats Chronic Cystitis Caused by Multidrug-Resistant Uropathogenic Escherichia coli ST131. Journal of Infectious Diseases, 2013, 208, 921-928.	4.0	116
13	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. PLoS ONE, 2014, 9, e104400.	2.5	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.	7.1	116
15	Oral Microbiome: A New Biomarker Reservoir for Oral and Oropharyngeal Cancers. Theranostics, 2017, 7, 4313-4321.	10.0	105
16	The saliva microbiome profiles are minimally affected by collection method or DNA extraction protocols. Scientific Reports, 2017, 7, 8523.	3.3	103
17	Role of Capsule and O Antigen in the Virulence of Uropathogenic Escherichia coli. PLoS ONE, 2014, 9, e94786.	2.5	98
18	Uropathogenic Escherichia coli Mediated Urinary Tract Infection. Current Drug Targets, 2012, 13, 1386-1399.	2.1	97

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19	Structure and Function of DsbA, a Key Bacterial Oxidative Folding Catalyst. Antioxidants and Redox Signaling, 2011, 14, 1729-1760.	5.4	96
20	Contribution of Siderophore Systems to Growth and Urinary Tract Colonization of Asymptomatic Bacteriuria Escherichia coli. Infection and Immunity, 2012, 80, 333-344.	2.2	96
21	Virulence properties of asymptomatic bacteriuria Escherichia coli. International Journal of Medical Microbiology, 2009, 299, 53-63.	3.6	91
22	The coâ€transcriptome of uropathogenic<scp>E</scp>scherichia coliâ€infected mouse macrophages reveals new insights into hostâ€"pathogen interactions. Cellular Microbiology, 2015, 17, 730-746.	2.1	90
23	Innate Transcriptional Networks Activated in Bladder in Response to Uropathogenic Escherichia coli Drive Diverse Biological Pathways and Rapid Synthesis of IL-10 for Defense against Bacterial Urinary Tract Infection. Journal of Immunology, 2012, 188, 781-792.	0.8	87
24	The Performance of an Oral Microbiome Biomarker Panel in Predicting Oral Cavity and Oropharyngeal Cancers. Frontiers in Cellular and Infection Microbiology, 2018, 8, 267.	3.9	83
25	UpaH Is a Newly Identified Autotransporter Protein That Contributes to Biofilm Formation and Bladder Colonization by Uropathogenic Escherichia coli CFT073. Infection and Immunity, 2010, 78, 1659-1669.	2.2	77
26	Molecular Characterization of UpaB and UpaC, Two New Autotransporter Proteins of Uropathogenic Escherichia coli CFT073. Infection and Immunity, 2012, 80, 321-332.	2.2	77
27	Demonstration of regulatory cross-talk between P fimbriae and type 1 fimbriae in uropathogenic Escherichia coli. Microbiology (United Kingdom), 2006, 152, 1143-1153.	1.8	76
28	Strain- and host species-specific inflammasome activation, IL-1Î² release, and cell death in macrophages infected with uropathogenic Escherichia coli. Mucosal Immunology, 2016, 9, 124-136.	6.0	74
29	Characterization of Two Homologous Disulfide Bond Systems Involved in Virulence Factor Biogenesis in Uropathogenic Escherichia coli CFT073. Journal of Bacteriology, 2009, 191, 3901-3908.	2.2	71
30	Molecular Analysis of the Acinetobacter baumannii Biofilm-Associated Protein. Applied and Environmental Microbiology, 2013, 79, 6535-6543.	3.1	68
31	Molecular Characterization of the EhaG and UpaG Trimeric Autotransporter Proteins from Pathogenic Escherichia coli. Applied and Environmental Microbiology, 2012, 78, 2179-2189.	3.1	65
32	Molecular analysis of type 3 fimbrial genes from Escherichia coli, Klebsiella and Citrobacter species. BMC Microbiology, 2010, 10, 183.	3.3	64
33	Intramacrophage survival of uropathogenic Escherichia coli: Differences between diverse clinical isolates and between mouse and human macrophages. Immunobiology, 2011, 216, 1164-1171.	1.9	61
34	Autotransporters of Escherichia coli: a sequence-based characterization. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	1.8	53
35	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. Journal of Proteomics, 2016, 131, 177-189.	2.4	53
36	The cytochrome bd-I respiratory oxidase augments survival of multidrug-resistant Escherichia coli during infection. Scientific Reports, 2016, 6, 35285.	3.3	51

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37	Structural and Functional Characterization of Three DsbA Paralogues from Salmonella enterica Serovar Typhimurium. Journal of Biological Chemistry, 2010, 285, 18423-18432.	3.4	47
38	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. Environmental Microbiology, 2009, 11, 1803-1814.	3.8	46
39	Application of Fragmentâ€Based Screening to the Design of Inhibitors of Escherichia coli DsbA. Angewandte Chemie - International Edition, 2015, 54, 2179-2184.	13.8	46
40	Benefits and Challenges of Antivirulence Antimicrobials at the Dawn of the Post-Antibiotic Era. Drug Delivery Letters, 2016, 6, 30-37.	0.5	46
41	Disarming pathogens: benefits and challenges of antimicrobials that target bacterial virulence instead of growth and viability. Future Medicinal Chemistry, 2017, 9, 267-269.	2.3	44
42	F9 Fimbriae of Uropathogenic Escherichia coli Are Expressed at Low Temperature and Recognise GalÎ²1-3GlcNAc-Containing Glycans. PLoS ONE, 2014, 9, e93177.	2.5	43
43	Intestinal Colonization Traits of Pandemic Multidrug-Resistant Escherichia coli ST131. Journal of Infectious Diseases, 2018, 218, 979-990.	4.0	42
44	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
45	Identification of Genes Important for Growth of Asymptomatic Bacteriuria Escherichia coli in Urine. Infection and Immunity, 2012, 80, 3179-3188.	2.2	38
46	Regulation of P-Fimbrial Phase Variation Frequencies in Escherichia coli CFT073. Infection and Immunity, 2007, 75, 3325-3334.	2.2	37
47	UafB is a serine-rich repeat adhesin of Staphylococcus saprophyticus that mediates binding to fibronectin, fibrinogen and human uroepithelial cells. Microbiology (United Kingdom), 2011, 157, 1161-1175.	1.8	36
48	Inhibition of Diverse DsbA Enzymes in Multi-DsbA Encoding Pathogens. Antioxidants and Redox Signaling, 2018, 29, 653-666.	5.4	35
49	The role of H4 flagella in Escherichia coli ST131 virulence. Scientific Reports, 2015, 5, 16149.	3.3	34
50	Regulatory interplay between pap operons in uropathogenic Escherichia coli. Molecular Microbiology, 2008, 67, 996-1011.	2.5	33
51	Comparative analysis of the uropathogenic Escherichia coli surface proteome by tandem mass-spectrometry of artificially induced outer membrane vesicles. Journal of Proteomics, 2015, 115, 93-106.	2.4	33
52	Functional Heterogeneity of the UpaH Autotransporter Protein from Uropathogenic Escherichia coli. Journal of Bacteriology, 2012, 194, 5769-5782.	2.2	31
53	Molecular Characterization of the Vacuolating Autotransporter Toxin in Uropathogenic Escherichia coli. Journal of Bacteriology, 2016, 198, 1487-1498.	2.2	31
54	Comparative analysis of FimB and FimE recombinase activity. Microbiology (United Kingdom), 2007, 153, 4138-4149.	1.8	30

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55	Escherichia coli Isolates Causing Asymptomatic Bacteriuria in Catheterized and Noncatheterized Individuals Possess Similar Virulence Properties. Journal of Clinical Microbiology, 2010, 48, 2449-2458.	3.9	30
56	Molecular Characterization of Endocarditis-Associated Staphylococcus aureus. Journal of Clinical Microbiology, 2013, 51, 2131-2138.	3.9	30
57	Biofilm formation by multidrug resistantEscherichia coliST131 is dependent on type 1 fimbriae and assay conditions. Pathogens and Disease, 2016, 74, ftw013.	2.0	29
58	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, 167-174.	2.2	27
59	Molecular Characterization of Escherichia coli Strains That Cause Symptomatic and Asymptomatic Urinary Tract Infections. Journal of Clinical Microbiology, 2012, 50, 1027-1030.	3.9	25
60	Escherichia coli 83972 Expressing a P fimbriae Oligosaccharide Receptor Mimic Impairs Adhesion of Uropathogenic E. coli. Journal of Infectious Diseases, 2012, 206, 1242-1249.	4.0	25
61	Characterization of EhaJ, a New Autotransporter Protein from Enterohemorrhagic and Enteropathogenic Escherichia coli. Frontiers in Microbiology, 2011, 2, 120.	3.5	24
62	Molecular Analysis of Asymptomatic Bacteriuria Escherichia coli Strain VR50 Reveals Adaptation to the Urinary Tract by Gene Acquisition. Infection and Immunity, 2015, 83, 1749-1764.	2.2	24
63	YeeJ is an inverse autotransporter from Escherichia coli that binds to peptidoglycan and promotes biofilm formation. Scientific Reports, 2017, 7, 11326.	3.3	23
64	Comprehensive analysis of type 1 fimbriae regulation in fimBâ€null strains from the multidrug resistant Escherichia coli ST131 clone. Molecular Microbiology, 2016, 101, 1069-1087.	2.5	21
65	A shape-shifting redox foldase contributes to Proteus mirabilis copper resistance. Nature Communications, 2017, 8, 16065.	12.8	21
66	Characterisation of a cell wall-anchored protein of Staphylococcus saprophyticus associated with linoleic acid resistance. BMC Microbiology, 2012, 12, 8.	3.3	19
67	Nitroxide Functionalized Antibiotics Are Promising Eradication Agents against Staphylococcus aureus Biofilms. Antimicrobial Agents and Chemotherapy, 2019, 64, .	3.2	19
68	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
69	Rapid Elaboration of Fragments into Leads by X-ray Crystallographic Screening of Parallel Chemical Libraries (REFiL_X). Journal of Medicinal Chemistry, 2020, 63, 6863-6875.	6.4	16
70	Experimental colonization of the canine urinary tract with the asymptomatic bacteriuria Escherichia coli strain 83972. Veterinary Microbiology, 2011, 147, 205-208.	1.9	15
71	Moraxella catarrhalis NucM is an entry nuclease involved in extracellular DNA and RNA degradation, cell competence and biofilm scaffolding. Scientific Reports, 2019, 9, 2579.	3.3	15
72	Eradicating uropathogenic Escherichia coli biofilms with a ciprofloxacinâ€“dinitroxide conjugate. MedChemComm, 2019, 10, 699-711.	3.4	12

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73	Thermoresponsive Polymerâ€“Antibiotic Conjugates Based on Gradient Copolymers of 2-Oxazoline and 2-Oxazine. Biomacromolecules, 2021, 22, 5185-5194.	5.4	11
74	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
75	Development of 3D Printed Biodegradable Mesh with Antimicrobial Properties for Pelvic Organ Prolapse. Polymers, 2022, 14, 763.	4.5	10
76	Muramidases found in the foregut microbiome of the Tammar wallaby can direct cell aggregation and biofilm formation. ISME Journal, 2011, 5, 341-350.	9.8	9
77	Differential Regulation of the Surface-Exposed and Secreted SslE Lipoprotein in Extraintestinal Pathogenic Escherichia coli. PLoS ONE, 2016, 11, e0162391.	2.5	9
78	Differential Afa/Dr Fimbriae Expression in the Multidrug-Resistant Escherichia coli ST131 Clone. MBio, 2022, 13, e0351921.	4.1	9
79	Expression and crystallization of SeDsbA, SeDsbL and SeSrgA fromSalmonella entericaserovar Typhimurium. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 601-604.	0.7	8
80	Profluorescent Fluoroquinolone-Nitroxides for Investigating Antibioticâ€“Bacterial Interactions. Antibiotics, 2019, 8, 19.	3.7	8
81	An in vitro Reconstructed Human Skin Equivalent Model to Study the Role of Skin Integration Around Percutaneous Devices Against Bacterial Infection. Frontiers in Microbiology, 2020, 11, 670.	3.5	8
82	Isothiazoloneâ€“Nitroxide Hybrids with Activity against Antibiotic-Resistant Staphylococcus aureus Biofilms. ACS Omega, 2022, 7, 5300-5310.	3.5	8
83	Selfâ€derived structureâ€disrupting peptides targeting methionine aminopeptidase in pathogenic bacteria: a new strategy to generate antimicrobial peptides. FASEB Journal, 2019, 33, 2095-2104.	0.5	7
84	Salmonella enterica 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
85	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
86	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
87	Loss of Î²-Ketoacyl Acyl Carrier Protein Synthase III Activity Restores Multidrug-Resistant Escherichia coli Sensitivity to Previously Ineffective Antibiotics. MSphere, 2022, 7, e0011722.	2.9	7
88	Structural bioinformatic analysis of DsbA proteins and their pathogenicity associated substrates. Computational and Structural Biotechnology Journal, 2021, 19, 4725-4737.	4.1	6
89	A method for increasing electroporation competence of Gram-negative clinical isolates by polymyxin B nonapeptide. Scientific Reports, 2022, 12, .	3.3	6
90	Variation of Antigen 43 self-association modulates bacterial compacting within aggregates and biofilms. Npj Biofilms and Microbiomes, 2022, 8, 20.	6.4	5

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91	Antivirulence DsbA inhibitors attenuate Salmonella enterica serovar Typhimurium fitness without detectable resistance. FASEB BioAdvances, 2021, 3, 231-242.	2.4	3
92	Selective Binding of Small Molecules to Vibrio cholerae DsbA Offers a Starting Point for the Design of Novel Antibacterials. ChemMedChem, 2022, 17, .	3.2	3
93	The suppressor of copper sensitivity protein C from Caulobacter crescentus 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
94	Co-Occurrence of Multidrug Resistant Klebsiella pneumoniae Pathogenic Clones of Human Relevance in an Equine Pneumonia Case. Microbiology Spectrum, 2022, , e0215821.	3.0	3
95	Insights into the virulence mechanisms employed by multidrug resistant Escherichia coli pathogens belonging to the globally disseminated ST131 lineage.. Frontiers in Immunology, 0, 2, .	4.8	0
96	Abstract 577: Oral microbiome biomarker panel to detect oral and oropharyngeal cancers in a clinical setting. , 2018, , .		0