# Thomas K Wood

List of Publications by Year
in descending order

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|---|---|---|---|
| 307 papers | 23,326 citations | 5782 84 h-index | 14012 133 g-index |
| 325 all docs | 325 docs citations | 325 times ranked | 20265 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The bacterial signal indole increases epithelial-cell tight-junction resistance and attenuates indicators of inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 228-233. | 3.3 | 660 |
| 2 | Cryptic prophages help bacteria cope with adverse environments. Nature Communications, 2010, 1, 147. | 5.8 | 560 |
| 3 | Bacterial Persister Cell Formation and Dormancy. Applied and Environmental Microbiology, 2013, 79, 7116-7121. | 1.4 | 506 |
| 4 | Autoinducer 2 Controls Biofilm Formation in Escherichia coli through a Novel Motility Quorum-Sensing Regulator (MqsR, B3022). Journal of Bacteriology, 2006, 188, 305-316. | 1.0 | 478 |
| 5 | Roles of Indole as an Interspecies and Interkingdom Signaling Molecule. Trends in Microbiology, 2015, 23, 707-718. | 3.5 | 396 |
| 6 | Indole is an inter-species biofilm signal mediated by SdiA. BMC Microbiology, 2007, 7, 42. | 1.3 | 388 |
| 7 | Toxin-Antitoxin Systems Influence Biofilm and Persister Cell Formation and the General Stress Response. Applied and Environmental Microbiology, 2011, 77, 5577-5583. | 1.4 | 368 |
| 8 | Connecting Quorum Sensing, c-di-GMP, Pel Polysaccharide, and Biofilm Formation in Pseudomonas aeruginosa through Tyrosine Phosphatase TpbA (PA3885). PLoS Pathogens, 2009, 5, e1000483. | 2.1 | 304 |
| 9 | Inhibition of biofilm formation and swarming of Escherichia coli by (5Z)-4-bromo-5-(bromomethylene)-3-butyl-2(5H)-furanone. Environmental Microbiology, 2001, 3, 731-736. | 1.8 | 301 |
| 10 | Differential Effects of Epinephrine, Norepinephrine, and Indole on Escherichia coli O157:H7 Chemotaxis, Colonization, and Gene Expression. Infection and Immunity, 2007, 75, 4597-4607. | 1.0 | 300 |
| 11 | Motility influences biofilm architecture in Escherichia coli. Applied Microbiology and Biotechnology, 2006, 72, 361-367. | 1.7 | 286 |
| 12 | Arrested Protein Synthesis Increases Persister-Like Cell Formation. Antimicrobial Agents and Chemotherapy, 2013, 57, 1468-1473. | 1.4 | 286 |
| 13 | Temporal gene-expression in Escherichia coli K-12 biofilms. Environmental Microbiology, 2007, 9, 332-346. | 1.8 | 283 |
| 14 | Bacterial Quorum Sensing: Signals, Circuits, and Implications for Biofilms and Disease. Annual Review of Biomedical Engineering, 2008, 10, 145-167. | 5.7 | 281 |
| 15 | A new type V toxin-antitoxin system where mRNA for toxin GhoT is cleaved by antitoxin GhoS. Nature Chemical Biology, 2012, 8, 855-861. | 3.9 | 268 |
| 16 | Engineering Plant-Microbe Symbiosis for Rhizoremediation of Heavy Metals. Applied and Environmental Microbiology, 2006, 72, 1129-1134. | 1.4 | 261 |
| 17 | Quorum quenching quandary: resistance to antivirulence compounds. ISME Journal, 2012, 6, 493-501. | 4.4 | 254 |
| 18 | Toxins Hha and CspD and small RNA regulator Hfq are involved in persister cell formation through MqsR in Escherichia coli. Biochemical and Biophysical Research Communications, 2010, 391, 209-213. | 1.0 | 225 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | YliH (BssR) and YceP (BssS) Regulate Escherichia coli K-12 Biofilm Formation by Influencing Cell Signaling. Applied and Environmental Microbiology, 2006, 72, 2449-2459. | 1.4 | 215 |
| 20 | Indole and 7â€hydroxyindole diminish Pseudomonas aeruginosa virulence. Microbial Biotechnology, 2009, 2, 75-90. | 2.0 | 214 |
| 21 | Differential Gene Expression for Investigation of Escherichia coli Biofilm Inhibition by Plant Extract Ursolic Acid. Applied and Environmental Microbiology, 2005, 71, 4022-4034. | 1.4 | 208 |
| 22 | Differential gene expression shows natural brominated furanones interfere with the autoinducer-2 bacterial signaling system ofEscherichia coli. Biotechnology and Bioengineering, 2004, 88, 630-642. | 1.7 | 205 |
| 23 | Antitoxin MqsA helps mediate the bacterial general stress response. Nature Chemical Biology, 2011, 7, 359-366. | 3.9 | 201 |
| 24 | Quorum Sensing in Escherichia coli Is Signaled by AI-2/LsrR: Effects on Small RNA and Biofilm Architecture. Journal of Bacteriology, 2007, 189, 6011-6020. | 1.0 | 200 |
| 25 | YdgG (TqsA) Controls Biofilm Formation in Escherichia coli K-12 through Autoinducer 2 Transport. Journal of Bacteriology, 2006, 188, 587-598. | 1.0 | 192 |
| 26 | YcfR (BhsA) Influences Escherichia coli Biofilm Formation through Stress Response and Surface Hydrophobicity. Journal of Bacteriology, 2007, 189, 3051-3062. | 1.0 | 187 |
| 27 | The natural furanone (5Z)-4-bromo-5-(bromomethylene)-3-butyl-2(5H)-furanone disrupts quorum sensing-regulated gene expression in Vibrio harveyi by decreasing the DNA-binding activity of the transcriptional regulator protein luxR. Environmental Microbiology, 2007, 9, 2486-2495. | 1.8 | 184 |
| 28 | Enterohemorrhagic Escherichia coli Biofilms Are Inhibited by 7-Hydroxyindole and Stimulated by Isatin. Applied and Environmental Microbiology, 2007, 73, 4100-4109. | 1.4 | 175 |
| 29 | Insights on Escherichia coli biofilm formation and inhibition from wholeâ€transcriptome profiling. Environmental Microbiology, 2009, 11, 1-15. | 1.8 | 175 |
| 30 | Viable but nonâ€culturable and persistence describe the same bacterial stress state. Environmental Microbiology, 2018, 20, 2038-2048. | 1.8 | 175 |
| 31 | Quorum Sensing-Disrupting Brominated Furanones Protect the Gnotobiotic Brine Shrimp Artemia franciscana from Pathogenic Vibrio harveyi, Vibrio campbellii, and Vibrio parahaemolyticus Isolates. Applied and Environmental Microbiology, 2006, 72, 6419-6423. | 1.4 | 169 |
| 32 | Role of quorum sensing in bacterial infections. World Journal of Clinical Cases, 2015, 3, 575. | 0.3 | 168 |
| 33 | Quorum sensing enhancement of the stress response promotes resistance to quorum quenching and prevents social cheating. ISME Journal, 2015, 9, 115-125. | 4.4 | 161 |
| 34 | Directed Evolution of Toluene ortho-Monooxygenase for Enhanced 1-Naphthol Synthesis and Chlorinated Ethene Degradation. Journal of Bacteriology, 2002, 184, 344-349. | 1.0 | 159 |
| 35 | Toxin-Antitoxin Systems in Escherichia coli Influence Biofilm Formation through YjgK (TabA) and Fimbriae. Journal of Bacteriology, 2009, 191, 1258-1267. | 1.0 | 159 |
| 36 | Three Dimensional Structure of the MqsR:MqsA Complex: A Novel TA Pair Comprised of a Toxin Homologous to RelE and an Antitoxin with Unique Properties. PLoS Pathogens, 2009, 5, e1000706. | 2.1 | 159 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Combatting bacterial infections by killing persister cells with mitomycin <scp>C</scp>. Environmental Microbiology, 2015, 17, 4406-4414. | 1.8 | 154 |
| 38 | Synthetic quorum-sensing circuit to control consortial biofilm formation and dispersal in a microfluidic device. Nature Communications, 2012, 3, 613. | 5.8 | 152 |
| 39 | Enhanced hydrogen production from glucose by metabolically engineered Escherichia coli. Applied Microbiology and Biotechnology, 2007, 77, 879-890. | 1.7 | 151 |
| 40 | Evolution of Resistance to Quorum-Sensing Inhibitors. Microbial Ecology, 2014, 68, 13-23. | 1.4 | 151 |
| 41 | Escherichia coli toxin/antitoxin pair MqsR/MqsA regulate toxin CspD. Environmental Microbiology, 2010, 12, 1105-1121. | 1.8 | 147 |
| 42 | Metabolic engineering to enhance bacterial hydrogen production. Microbial Biotechnology, 2008, 1, 30-39. | 2.0 | 146 |
| 43 | Uracil influences quorum sensing and biofilm formation in Pseudomonas aeruginosa and fluorouracil is an antagonist. Microbial Biotechnology, 2009, 2, 62-74. | 2.0 | 139 |
| 44 | Rhizoremediation of Trichloroethylene by a Recombinant, Root-Colonizing Pseudomonas fluorescens Strain Expressing Toluene ortho -Monooxygenase Constitutively. Applied and Environmental Microbiology, 1998, 64, 112-118. | 1.4 | 139 |
| 45 | Bacterial persistence increases as environmental fitness decreases. Microbial Biotechnology, 2012, 5, 509-522. | 2.0 | 137 |
| 46 | Aerobic degradation of tetrachloroethylene by toluene-o-xylene monooxygenase of Pseudomonas stutzeri OX1. Nature Biotechnology, 2000, 18, 775-778. | 9.4 | 132 |
| 47 | OmpA influences Escherichia coli biofilm formation by repressing cellulose production through the CpxRA twoâ€component system. Environmental Microbiology, 2009, 11, 2735-2746. | 1.8 | 132 |
| 48 | Electricity from methane by reversing methanogenesis. Nature Communications, 2017, 8, 15419. | 5.8 | 127 |
| 49 | Metabolically engineered bacteria for producing hydrogen via fermentation. Microbial Biotechnology, 2008, 1, 107-125. | 2.0 | 126 |
| 50 | Oxidation of Benzene to Phenol, Catechol, and 1,2,3-Trihydroxybenzene by Toluene 4-Monooxygenase of Pseudomonas mendocina KR1 and Toluene 3-Monooxygenase of Ralstonia pickettii PKO1. Applied and Environmental Microbiology, 2004, 70, 3814-3820. | 1.4 | 122 |
| 51 | Inhibition of biofilm formation and swarming of Bacillus subtilis by (5Z)-4-bromo-5-(bromomethylene)-3-butyl-2(5H)-furanone. Letters in Applied Microbiology, 2002, 34, 293-299. | 1.0 | 120 |
| 52 | Chemotaxis to the Quorum-Sensing Signal AI-2 Requires the Tsr Chemoreceptor and the Periplasmic LsrB AI-2-Binding Protein. Journal of Bacteriology, 2011, 193, 768-773. | 1.0 | 118 |
| 53 | Reversing methanogenesis to capture methane for liquid biofuel precursors. Microbial Cell Factories, 2016, 15, 11. | 1.9 | 116 |
| 54 | Photoelectrochemical hydrogen production from water/methanol decomposition using Ag/TiO2 nanocomposite thin films. International Journal of Hydrogen Energy, 2010, 35, 11768-11775. | 3.8 | 114 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Protein engineering of toluene ortho-monooxygenase of Burkholderia cepacia G4 for regiospecific hydroxylation of indole to form various indigoid compounds. Applied Microbiology and Biotechnology, 2005, 66, 422-429. | 1.7 | 111 |
| 56 | Indole cell signaling occurs primarily at low temperatures in Escherichia coli. ISME Journal, 2008, 2, 1007-1023. | 4.4 | 111 |
| 57 | Engineering biofilm formation and dispersal. Trends in Biotechnology, 2011, 29, 87-94. | 4.9 | 111 |
| 58 | A Survey of Bacterial Diversity From Successive Life Stages of Black Soldier Fly (Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (S | 0.9 | 111 |
| 59 | A Primary Physiological Role of Toxin/Antitoxin Systems Is Phage Inhibition. Frontiers in Microbiology, 2020, 11, 1895. | 1.5 | 111 |
| 60 | Resistance to Quorum-Quenching Compounds. Applied and Environmental Microbiology, 2013, 79, 6840-6846. | 1.4 | 108 |
| 61 | Reconfiguring the Quorum-Sensing Regulator SdiA of Escherichia coli To Control Biofilm Formation via Indole and N -Acylhomoserine Lactones. Applied and Environmental Microbiology, 2009, 75, 1703-1716. | 1.4 | 106 |
| 62 | Indole Production Promotes Escherichia coli Mixed-Culture Growth with Pseudomonas aeruginosa by Inhibiting Quorum Signaling. Applied and Environmental Microbiology, 2012, 78, 411-419. | 1.4 | 105 |
| 63 | Toxin-Antitoxin Systems in Clinical Pathogens. Toxins, 2016, 8, 227. | 1.5 | 105 |
| 64 | Persistence Increases in the Absence of the Alarmone Guanosine Tetraphosphate by Reducing Cell Growth. Scientific Reports, 2016, 6, 20519. | 1.6 | 105 |
| 65 | Aerobic biodegradation of N-nitrosodimethylamine (NDMA) by axenic bacterial strains. Biotechnology and Bioengineering, 2005, 89, 608-618. | 1.7 | 102 |
| 66 | Environmental factors affecting indole production in Escherichia coli. Research in Microbiology, 2011, 162, 108-116. | 1.0 | 102 |
| 67 | Protein Translation and Cell Death: The Role of Rare tRNAs in Biofilm Formation and in Activating Dormant Phage Killer Genes. PLoS ONE, 2008, 3, e2394. | 1.1 | 102 |
| 68 | A naturally occurring brominated furanone covalently modifies and inactivates LuxS. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6200-6204. | 1.0 | 101 |
| 69 | Proteus mirabilis interkingdom swarming signals attract blow flies. ISME Journal, 2012, 6, 1356-1366. | 4.4 | 101 |
| 70 | The HigB/HigA toxin/antitoxin system of Pseudomonas aeruginosa influences the virulence factors pyochelin, pyocyanin, and biofilm formation. MicrobiologyOpen, 2016, 5, 499-511. | 1.2 | 101 |
| 71 | Type <scp>II</scp> toxin/antitoxin <scp>MqsR</scp>/<scp>MqsA</scp> controls type <scp>V</scp> toxin/antitoxin <scp>GhoT</scp>/<scp>GhoS</scp>. Environmental Microbiology, 2013, 15, 1734-1744. | 1.8 | 100 |
| 72 | Combatting bacterial persister cells. Biotechnology and Bioengineering, 2016, 113, 476-483. | 1.7 | 100 |

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|---|---|---|---|
| 73 | An Inducible Propane Monooxygenase Is Responsible for N -Nitrosodimethylamine Degradation by Rhodococcus sp. Strain RHA1. Applied and Environmental Microbiology, 2007, 73, 6930-6938. | 1.4 | 98 |
| 74 | Control and benefits of CP4-57 prophage excision in Escherichia coli biofilms. ISME Journal, 2009, 3, 1164-1179. | 4.4 | 98 |
| 75 | An evolved Escherichia coli strain for producing hydrogen and ethanol from glycerol. Biochemical and Biophysical Research Communications, 2010, 391, 1033-1038. | 1.0 | 98 |
| 76 | RalR (a DNase) and RalA (a small RNA) form a type I toxinâ€“antitoxin system in Escherichia coli. Nucleic Acids Research, 2014, 42, 6448-6462. | 6.5 | 98 |
| 77 | Hha, YbaJ, and OmpA regulateEscherichia coli K12 biofilm formation and conjugation plasmids abolish motility. Biotechnology and Bioengineering, 2006, 93, 188-200. | 1.7 | 96 |
| 78 | The importance of live biofilms in corrosion protection. Corrosion Science, 2005, 47, 279-287. | 3.0 | 95 |
| 79 | A metagenomic assessment of the bacteria associated with Lucilia sericata and Lucilia cuprina (Diptera:) Tj ETQq1 1 0.784314 rgBT /Ov | 1.7 | 95 |
| 80 | DNAâ€crosslinker cisplatin eradicates bacterial persister cells. Biotechnology and Bioengineering, 2016, 113, 1984-1992. | 1.7 | 95 |
| 81 | Post-segregational Killing and Phage Inhibition Are Not Mediated by Cell Death Through Toxin/Antitoxin Systems. Frontiers in Microbiology, 2018, 9, 814. | 1.5 | 95 |
| 82 | Stationary-Phase Quorum-Sensing Signals Affect Autoinducer-2 and Gene Expression in Escherichia coli. Applied and Environmental Microbiology, 2004, 70, 2038-2043. | 1.4 | 94 |
| 83 | Single cell observations show persister cells wake based on ribosome content. Environmental Microbiology, 2018, 20, 2085-2098. | 1.8 | 94 |
| 84 | Resistance to the quorum-quenching compounds brominated furanone C-30 and 5-fluorouracil inPseudomonas aeruginosaclinical isolates. Pathogens and Disease, 2013, 68, 8-11. | 0.8 | 93 |
| 85 | Protein acetylation in prokaryotes increases stress resistance. Biochemical and Biophysical Research Communications, 2011, 410, 846-851. | 1.0 | 92 |
| 86 | Molecular approaches in bioremediation. Current Opinion in Biotechnology, 2008, 19, 572-578. | 3.3 | 91 |
| 87 | Escherichia coli hydrogenase 3 is a reversible enzyme possessing hydrogen uptake and synthesis activities. Applied Microbiology and Biotechnology, 2007, 76, 1035-1042. | 1.7 | 90 |
| 88 | Structure and Function of the Escherichia coli Protein YmgB: A Protein Critical for Biofilm Formation and Acid-resistance. Journal of Molecular Biology, 2007, 373, 11-26. | 2.0 | 89 |
| 89 | Toxin <scp>YafQ</scp> increases persister cell formation by reducing indole signalling. Environmental Microbiology, 2015, 17, 1275-1285. | 1.8 | 88 |
| 90 | Interkingdom responses of flies to bacteria mediated by fly physiology and bacterial quorum sensing. Animal Behaviour, 2012, 84, 1449-1456. | 0.8 | 83 |

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|---|---|---|---|
| 91 | Antitoxin MqsA Represses Curli Formation Through the Master Biofilm Regulator CsgD. Scientific Reports, 2013, 3, 3186. | 1.6 | 83 |
| 92 | Bacteria Mediate Oviposition by the Black Soldier Fly, Hermetia illucens (L.), (Diptera: Stratiomyidae). Scientific Reports, 2013, 3, 2563. | 1.6 | 83 |
| 93 | Engineering a novel câ€diâ€GMPâ€binding protein for biofilm dispersal. Environmental Microbiology, 2011, 13, 631-642. | 1.8 | 80 |
| 94 | Halogenated indoles eradicate bacterial persister cells and biofilms. AMB Express, 2016, 6, 123. | 1.4 | 80 |
| 95 | Can resistance against quorum-sensing interference be selected?. ISME Journal, 2016, 10, 4-10. | 4.4 | 80 |
| 96 | Repurposing of Anticancer Drugs for the Treatment of Bacterial Infections. Current Topics in Medicinal Chemistry, 2017, 17, 1157-1176. | 1.0 | 80 |
| 97 | Protein Engineering of Epoxide Hydrolase from Agrobacterium radiobacter AD1 for Enhanced Activity and Enantioselective Production of ( R )-1-Phenylethane-1,2-Diol. Applied and Environmental Microbiology, 2005, 71, 3995-4003. | 1.4 | 79 |
| 98 | Toxin <scp>GhoT</scp> of the <scp>GhoT</scp>/<scp>GhoS</scp> toxin/antitoxin system damages the cell membrane to reduce adenosine triphosphate and to reduce growth under stress. Environmental Microbiology, 2014, 16, 1741-1754. | 1.8 | 79 |
| 99 | Altering Toluene 4-Monooxygenase by Active-Site Engineering for the Synthesis of 3-Methoxycatechol, Methoxyhydroquinone, and Methylhydroquinone. Journal of Bacteriology, 2004, 186, 4705-4713. | 1.0 | 76 |
| 100 | Temporal regulation of enterohemorrhagic Escherichia coli virulence mediated by autoinducer-2. Applied Microbiology and Biotechnology, 2008, 78, 811-819. | 1.7 | 76 |
| 101 | Antibiotic-tolerant Staphylococcus aureus Biofilm Persists on Arthroplasty Materials. Clinical Orthopaedics and Related Research, 2016, 474, 1649-1656. | 0.7 | 76 |
| 102 | Saturation Mutagenesis of Toluene ortho-Monooxygenase of Burkholderia cepacia G4 for Enhanced 1-Naphthol Synthesis and Chloroform Degradation. Applied and Environmental Microbiology, 2004, 70, 3246-3252. | 1.4 | 75 |
| 103 | Gene expression inBacillus subtilis surface biofilms with and without sporulation and the importance ofyver for biofilm maintenance. Biotechnology and Bioengineering, 2004, 86, 344-364. | 1.7 | 75 |
| 104 | Phosphodiesterase DosP increases persistence by reducing cAMP which reduces the signal indole. Biotechnology and Bioengineering, 2015, 112, 588-600. | 1.7 | 75 |
| 105 | Tryptophan-metabolizing gut microbes regulate adult neurogenesis via the aryl hydrocarbon receptor. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 75 |
| 106 | Aluminum- and mild steel-binding peptides from phage display. Applied Microbiology and Biotechnology, 2005, 68, 505-509. | 1.7 | 72 |
| 107 | Escherichia coli transcription factor YncC (McbR) regulates colanic acid and biofilm formation by repressing expression of periplasmic protein YbiM (McbA). ISME Journal, 2008, 2, 615-631. | 4.4 | 72 |
| 108 | Persistent Persister Misperceptions. Frontiers in Microbiology, 2016, 07, 2134. | 1.5 | 72 |

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|---|---|---|---|
| 109 | ppGpp ribosome dimerization model for bacterial persister formation and resuscitation. Biochemical and Biophysical Research Communications, 2020, 523, 281-286. | 1.0 | 71 |
| 110 | Pseudomonas aeruginosa PAO1 virulence factors and poplar tree response in the rhizosphere. Microbial Biotechnology, 2008, 1, 17-29. | 2.0 | 69 |
| 111 | Controlling the Regiospecific Oxidation of Aromatics via Active Site Engineering of Toluene para-Monooxygenase of Ralstonia pickettii PKO1. Journal of Biological Chemistry, 2005, 280, 506-514. | 1.6 | 68 |
| 112 | Antitoxin DinJ influences the general stress response through transcript stabilizer CspE. Environmental Microbiology, 2012, 14, 669-679. | 1.8 | 68 |
| 113 | Protein Engineering of Toluene-o-Xylene Monooxygenase from Pseudomonas stutzeri OX1 for Synthesizing 4-Methylresorcinol, Methylhydroquinone, and Pyrogallol. Applied and Environmental Microbiology, 2004, 70, 3253-3262. | 1.4 | 67 |
| 114 | Enantioconvergent production of (R)-1-phenyl-1,2-ethanediol from styrene oxide by combining theSolanum tuberosum and an evolvedAgrobacterium radiobacter AD1 epoxide hydrolases. Biotechnology and Bioengineering, 2006, 94, 522-529. | 1.7 | 67 |
| 115 | Controlling biofilm formation, prophage excision and cell death by rewiring global regulator Hâ€NS of Escherichia coli. Microbial Biotechnology, 2010, 3, 344-356. | 2.0 | 66 |
| 116 | The neuroendocrine hormone norepinephrine increases Pseudomonas aeruginosa PA14 virulence through the las quorum-sensing pathway. Applied Microbiology and Biotechnology, 2009, 84, 763-776. | 1.7 | 65 |
| 117 | GGDEF proteins YeaI, YedQ, and YfiN reduce early biofilm formation and swimming motility in Escherichia coli. Applied Microbiology and Biotechnology, 2011, 90, 651-658. | 1.7 | 65 |
| 118 | Oxidation of Trichloroethylene, 1,1-Dichloroethylene, and Chloroform by Toluene/ o -Xylene Monooxygenase from Pseudomonas stutzeri OX1. Applied and Environmental Microbiology, 1998, 64, 3023-3024. | 1.4 | 65 |
| 119 | Rhizosphere Competitiveness of Trichloroethylene-Degrading, Poplar-Colonizing Recombinant Bacteria. Applied and Environmental Microbiology, 2000, 66, 4673-4678. | 1.4 | 64 |
| 120 | Escherichia coli hydrogenase activity and H2 production under glycerol fermentation at a low pH. International Journal of Hydrogen Energy, 2011, 36, 4323-4331. | 3.8 | 64 |
| 121 | Toluene 3-Monooxygenase of Ralstonia pickettii PKO1 Is a para-Hydroxylating Enzyme. Journal of Bacteriology, 2004, 186, 3117-3123. | 1.0 | 63 |
| 122 | Identification of stress-related proteins inEscherichia coliusing the pollutantcis-dichloroethylene. Journal of Applied Microbiology, 2009, 108, 2088-102. | 1.4 | 63 |
| 123 | An oxygen-sensitive toxinâ€“antitoxin system. Nature Communications, 2016, 7, 13634. | 5.8 | 63 |
| 124 | 5-Fluorouracil reduces biofilm formation in Escherichia coli K-12 through global regulator AriR as an antivirulence compound. Applied Microbiology and Biotechnology, 2009, 82, 525-533. | 1.7 | 62 |
| 125 | Structure of the Escherichia coli Antitoxin MqsA (YgiT/b3021) Bound to Its Gene Promoter Reveals Extensive Domain Rearrangements and the Specificity of Transcriptional Regulation. Journal of Biological Chemistry, 2011, 286, 2285-2296. | 1.6 | 62 |
| 126 | Hydrogen production by recombinant Escherichia coli strains. Microbial Biotechnology, 2012, 5, 214-225. | 2.0 | 62 |

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|---|---|---|---|
| 127 | (p)ppGpp and Its Role in Bacterial Persistence: New Challenges. Antimicrobial Agents and Chemotherapy, 2020, 64, . | 1.4 | 62 |
| 128 | Repurposing the anticancer drug mitomycin C for the treatment of persistent Acinetobacter baumannii infections. International Journal of Antimicrobial Agents, 2017, 49, 88-92. | 1.1 | 61 |
| 129 | A microfluidic device for high throughput bacterial biofilm studies. Lab on A Chip, 2012, 12, 1157. | 3.1 | 60 |
| 130 | Active Site Engineering of the Epoxide Hydrolase from Agrobacterium radiobacter AD1 to Enhance Aerobic Mineralization of cis-1,2-Dichloroethylene in Cells Expressing an Evolved Toluene ortho-Monooxygenase. Journal of Biological Chemistry, 2004, 279, 46810-46817. | 1.6 | 59 |
| 131 | Quorum-sensing antagonist (5Z)-4-bromo-5-(bromomethylene)-3-butyl-2(5H)-furanone influences siderophore biosynthesis in Pseudomonas putida and Pseudomonas aeruginosa. Applied Microbiology and Biotechnology, 2005, 66, 689-695. | 1.7 | 59 |
| 132 | Strategies for combating persister cell and biofilm infections. Microbial Biotechnology, 2017, 10, 1054-1056. | 2.0 | 59 |
| 133 | Rhamnolipids from Pseudomonas aeruginosa disperse the biofilms of sulfate-reducing bacteria. Npj Biofilms and Microbiomes, 2018, 4, 22. | 2.9 | 59 |
| 134 | Pyocyanin Restricts Social Cheating in Pseudomonas aeruginosa. Frontiers in Microbiology, 2018, 9, 1348. | 1.5 | 59 |
| 135 | Inhibition ofBacillus anthracisGrowth and Virulenceâ€Gene Expression by Inhibitors of Quorumâ€Sensing. Journal of Infectious Diseases, 2005, 191, 1881-1888. | 1.9 | 58 |
| 136 | CO2 sequestration by methanogens in activated sludge for methane production. Applied Energy, 2015, 142, 426-434. | 5.1 | 58 |
| 137 | Cryptic prophages as targets for drug development. Drug Resistance Updates, 2016, 27, 30-38. | 6.5 | 58 |
| 138 | Type VII Toxin/Antitoxin Classification System for Antitoxins that Enzymatically Neutralize Toxins. Trends in Microbiology, 2021, 29, 388-393. | 3.5 | 58 |
| 139 | Isolation and characterization of gallium resistant Pseudomonas aeruginosa mutants. International Journal of Medical Microbiology, 2013, 303, 574-582. | 1.5 | 57 |
| 140 | YeeO fromEscherichia coliexports flavins. Bioengineered, 2014, 5, 386-392. | 1.4 | 57 |
| 141 | High variability in quorum quenching and growth inhibition by furanone C-30 inPseudomonas aeruginosaclinical isolates from cystic fibrosis patients. Pathogens and Disease, 2015, 73, ftv040. | 0.8 | 57 |
| 142 | Toxin/Antitoxin System Paradigms: Toxins Bound to Antitoxins Are Not Likely Activated by Preferential Antitoxin Degradation. Advanced Biology, 2020, 4, e1900290. | 3.0 | 57 |
| 143 | Effect of chemically-induced, cloned-gene expression on protein synthesis inE. Coli. Biotechnology and Bioengineering, 1991, 38, 397-412. | 1.7 | 56 |
| 144 | Differential Gene Expression To Investigate the Effect of ( 5Z )-4-Bromo- 5-(Bromomethylene)-3-Butyl-2() Tj ETQq0 0 0 rgBT /Overlock 10 | 1.4 | 56 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Inhibition of hydrogen uptake in Escherichia coli by expressing the hydrogenase from the cyanobacterium Synechocystis sp. PCC 6803. BMC Biotechnology, 2007, 7, 25. | 1.7 | 56 |
| 146 | Indole: An evolutionarily conserved influencer of behavior across kingdoms. BioEssays, 2017, 39, 1600203. | 1.2 | 56 |
| 147 | Persister Cells Resuscitate Using Membrane Sensors that Activate Chemotaxis, Lower cAMP Levels, and Revive Ribosomes. IScience, 2020, 23, 100792. | 1.9 | 56 |
| 148 | Corrosion control using regenerative biofilms (CCURB) on brass in different media. Corrosion Science, 2002, 44, 2291-2302. | 3.0 | 55 |
| 149 | Metabolic engineering of Escherichia coli to enhance hydrogen production from glycerol. Applied Microbiology and Biotechnology, 2014, 98, 4757-4770. | 1.7 | 55 |
| 150 | The <scp>MqsR</scp>/<scp>MqsA</scp> toxin/antitoxin system protects <scp>E</scp>scherichia coli during bile acid stress. Environmental Microbiology, 2015, 17, 3168-3181. | 1.8 | 55 |
| 151 | A stochastic model of Escherichia coli Alâ€2 quorum signal circuit reveals alternative synthesis pathways. Molecular Systems Biology, 2006, 2, 67. | 3.2 | 53 |
| 152 | PA2663 (PpyR) increases biofilm formation in Pseudomonas aeruginosa PAO1 through the psl operon and stimulates virulence and quorum-sensing phenotypes. Applied Microbiology and Biotechnology, 2008, 78, 293-307. | 1.7 | 53 |
| 153 | The R1 Conjugative Plasmid Increases Escherichia coli Biofilm Formation through an Envelope Stress Response. Applied and Environmental Microbiology, 2008, 74, 2690-2699. | 1.4 | 53 |
| 154 | Protein engineering of hydrogenase 3 to enhance hydrogen production. Applied Microbiology and Biotechnology, 2008, 79, 77-86. | 1.7 | 52 |
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