Thomas K Wood

List of Publications by Citations

Source: https://exaly.com/author-pdf/5390952/thomas-k-wood-publications-by-citations.pdf
Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

306 papers	18,140 citations	76 h-index	119 g-index
325 ext. papers	21,257 ext. citations	5.8 avg, IF	7.21 L-index

#	Paper	IF	Citations
306	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, 228-33	11.5	450
305	Autoinducer 2 controls biofilm formation in Escherichia coli through a novel motility quorum-sensing regulator (MqsR, B3022). *Journal of Bacteriology*, **2006**, 188, 305-16	3.5	419
304	Cryptic prophages help bacteria cope with adverse environments. *Nature Communications*, **2010**, 1, 147	17.4	370
303	Bacterial persister cell formation and dormancy. *Applied and Environmental Microbiology*, **2013**, 79, 7116-28	4.3	360
302	Indole is an inter-species biofilm signal mediated by SdiA. *BMC Microbiology*, **2007**, 7, 42	4.5	317
301	Toxin-antitoxin systems influence biofilm and persister cell formation and the general stress response. *Applied and Environmental Microbiology*, **2011**, 77, 5577-83	4.8	308
300	Inhibition of biofilm formation and swarming of Escherichia coli by (5Z)-4-bromo-5-(bromomethylene)-3-butyl-2(5H)-furanone. *Environmental Microbiology*, **2001**, 3, 731-6	5.2	265
299	Roles of indole as an interspecies and interkingdom signaling molecule. *Trends in Microbiology*, **2015**, 23, 707-718	12.4	249
298	Bacterial quorum sensing: signals, circuits, and implications for biofilms and disease. *Annual Review of Biomedical Engineering*, **2008**, 10, 145-67	12	242
297	Differential effects of epinephrine, norepinephrine, and indole on Escherichia coli O157:H7 chemotaxis, colonization, and gene expression. *Infection and Immunity*, **2007**, 75, 4597-607	3.7	242
296	Connecting quorum sensing, c-di-GMP, pel polysaccharide, and biofilm formation in Pseudomonas aeruginosa through tyrosine phosphatase TpbA (PA3885). *PLoS Pathogens*, **2009**, 5, e1000483	7.6	239
295	Temporal gene-expression in Escherichia coli K-12 biofilms. *Environmental Microbiology*, **2007**, 9, 332-46	5.2	234
294	Motility influences biofilm architecture in Escherichia coli. *Applied Microbiology and Biotechnology*, **2006**, 72, 361-7	5.7	226
293	Engineering plant-microbe symbiosis for rhizoremediation of heavy metals. *Applied and Environmental Microbiology*, **2006**, 72, 1129-34	4.8	222
292	A new type V toxin-antitoxin system where mRNA for toxin GhoT is cleaved by antitoxin GhoS. *Nature Chemical Biology*, **2012**, 8, 855-61	11.7	221
291	Arrested protein synthesis increases persister-like cell formation. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 1468-73	5.9	219
290	Quorum quenching quandary: resistance to antivirulence compounds. *ISME Journal*, **2012**, 6, 493-501	11.9	202

289	Differential gene expression shows natural brominated furanones interfere with the autoinducer-2 bacterial signaling system of Escherichia coli. *Biotechnology and Bioengineering*, **2004**, 88, 630-42	4.9	188
288	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, 209-13	3.4	183
287	Differential gene expression for investigation of Escherichia coli biofilm inhibition by plant extract ursolic acid. *Applied and Environmental Microbiology*, **2005**, 71, 4022-34	4.8	177
286	Antitoxin MqsA helps mediate the bacterial general stress response. *Nature Chemical Biology*, **2011**, 7, 359-66	11.7	176
285	Indole and 7-hydroxyindole diminish Pseudomonas aeruginosa virulence. *Microbial Biotechnology*, **2009**, 2, 75-90	6.3	169
284	YliH (BssR) and YceP (BssS) regulate Escherichia coli K-12 biofilm formation by influencing cell signaling. *Applied and Environmental Microbiology*, **2006**, 72, 2449-59	4.8	169
283	Quorum sensing in Escherichia coli is signaled by AI-2/LsrR: effects on small RNA and biofilm architecture. *Journal of Bacteriology*, **2007**, 189, 6011-20	3.5	163
282	Enterohemorrhagic Escherichia coli biofilms are inhibited by 7-hydroxyindole and stimulated by isatin. *Applied and Environmental Microbiology*, **2007**, 73, 4100-9	4.8	156
281	YdgG (TqsA) controls biofilm formation in Escherichia coli K-12 through autoinducer 2 transport. *Journal of Bacteriology*, **2006**, 188, 587-98	3.5	152
280	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, 6419-23	4.8	152
279	Directed evolution of toluene ortho-monooxygenase for enhanced 1-naphthol synthesis and chlorinated ethene degradation. *Journal of Bacteriology*, **2002**, 184, 344-9	3.5	152
278	Insights on Escherichia coli biofilm formation and inhibition from whole-transcriptome profiling. *Environmental Microbiology*, **2009**, 11, 1-15	5.2	151
277	YcfR (BhsA) influences Escherichia coli biofilm formation through stress response and surface hydrophobicity. *Journal of Bacteriology*, **2007**, 189, 3051-62	3.5	149
276	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, 2486-95	5.2	147
275	Toxin-antitoxin systems in Escherichia coli influence biofilm formation through YjgK (TabA) and fimbriae. *Journal of Bacteriology*, **2009**, 191, 1258-67	3.5	140
274	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	7.6	138
273	Enhanced hydrogen production from glucose by metabolically engineered Escherichia coli. *Applied Microbiology and Biotechnology*, **2007**, 77, 879-90	5.7	131
272	Evolution of resistance to quorum-sensing inhibitors. *Microbial Ecology*, **2014**, 68, 13-23	4.4	126

271	Escherichia coli toxin/antitoxin pair MqsR/MqsA regulate toxin CspD. *Environmental Microbiology*, **2010**, 12, 1105-21	5.2	125
270	Synthetic quorum-sensing circuit to control consortial biofilm formation and dispersal in a microfluidic device. *Nature Communications*, **2012**, 3, 613	17.4	123
269	Metabolic engineering to enhance bacterial hydrogen production. *Microbial Biotechnology*, **2008**, 1, 30-9	6.3	122
268	Role of quorum sensing in bacterial infections. *World Journal of Clinical Cases*, **2015**, 3, 575-98	1.6	119
267	Rhizoremediation of trichloroethylene by a recombinant, root-colonizing Pseudomonas fluorescens strain expressing toluene ortho-monooxygenase constitutively. *Applied and Environmental Microbiology*, **1998**, 64, 112-8	4.8	119
266	Aerobic degradation of tetrachloroethylene by toluene-o-xylene monooxygenase of Pseudomonas stutzeri OX1. *Nature Biotechnology*, **2000**, 18, 775-8	44.5	114
265	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, 3814-20	4.8	108
264	Combatting bacterial infections by killing persister cells with mitomycin C. *Environmental Microbiology*, **2015**, 17, 4406-14	5.2	106
263	Quorum sensing enhancement of the stress response promotes resistance to quorum quenching and prevents social cheating. *ISME Journal*, **2015**, 9, 115-25	11.9	106
262	Viable but non-culturable and persistence describe the same bacterial stress state. *Environmental Microbiology*, **2018**, 20, 2038-2048	5.2	104
261	Uracil influences quorum sensing and biofilm formation in Pseudomonas aeruginosa and fluorouracil is an antagonist. *Microbial Biotechnology*, **2009**, 2, 62-74	6.3	103
260	Photoelectrochemical hydrogen production from water/methanol decomposition using Ag/TiO2 nanocomposite thin films. *International Journal of Hydrogen Energy*, **2010**, 35, 11768-11775	6.7	102
259	Metabolically engineered bacteria for producing hydrogen via fermentation. *Microbial Biotechnology*, **2008**, 1, 107-25	6.3	102
258	Bacterial persistence increases as environmental fitness decreases. *Microbial Biotechnology*, **2012**, 5, 509-22	6.3	101
257	Engineering biofilm formation and dispersal. *Trends in Biotechnology*, **2011**, 29, 87-94	15.1	98
256	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, 293-9	2.9	97
255	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, 422-9	5.7	95
254	Indole cell signaling occurs primarily at low temperatures in Escherichia coli. *ISME Journal*, **2008**, 2, 1007-23	2.9	94

253	Reversing methanogenesis to capture methane for liquid biofuel precursors. *Microbial Cell Factories*, **2016**, 15, 11	6.4	91
252	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, 768-73	3.5	91
251	Electricity from methane by reversing methanogenesis. *Nature Communications*, **2017**, 8, 15419	17.4	90
250	OmpA influences Escherichia coli biofilm formation by repressing cellulose production through the CpxRA two-component system. *Environmental Microbiology*, **2009**, 11, 2735-46	5.2	90
249	An inducible propane monooxygenase is responsible for N-nitrosodimethylamine degradation by Rhodococcus sp. strain RHA1. *Applied and Environmental Microbiology*, **2007**, 73, 6930-8	4.8	89
248	Aerobic biodegradation of N-nitrosodimethylamine (NDMA) by axenic bacterial strains. *Biotechnology and Bioengineering*, **2005**, 89, 608-18	4.9	89
247	An evolved Escherichia coli strain for producing hydrogen and ethanol from glycerol. *Biochemical and Biophysical Research Communications*, **2010**, 391, 1033-8	3.4	87
246	A naturally occurring brominated furanone covalently modifies and inactivates LuxS. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 6200-4	2.9	87
245	Combatting bacterial persister cells. *Biotechnology and Bioengineering*, **2016**, 113, 476-83	4.9	86
244	Indole production promotes Escherichia coli mixed-culture growth with Pseudomonas aeruginosa by inhibiting quorum signaling. *Applied and Environmental Microbiology*, **2012**, 78, 411-9	4.8	85
243	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	3.7	84
242	Hha, YbaJ, and OmpA regulate Escherichia coli K12 biofilm formation and conjugation plasmids abolish motility. *Biotechnology and Bioengineering*, **2006**, 93, 188-200	4.9	83
241	A survey of bacterial diversity from successive life stages of black soldier fly (Diptera: Stratiomyidae) by using 16S rDNA pyrosequencing. *Journal of Medical Entomology*, **2013**, 50, 647-58	2.2	82
240	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, 1703-16	4.8	82
239	Environmental factors affecting indole production in Escherichia coli. *Research in Microbiology*, **2011**, 162, 108-16	4	81
238	Escherichia coli hydrogenase 3 is a reversible enzyme possessing hydrogen uptake and synthesis activities. *Applied Microbiology and Biotechnology*, **2007**, 76, 1035-42	5.7	80
237	Resistance to quorum-quenching compounds. *Applied and Environmental Microbiology*, **2013**, 79, 6840-6	4.8	79
236	Stationary-phase quorum-sensing signals affect autoinducer-2 and gene expression in Escherichia coli. *Applied and Environmental Microbiology*, **2004**, 70, 2038-43	4.8	79

235	Proteus mirabilis interkingdom swarming signals attract blow flies. *ISME Journal*, **2012**, 6, 1356-66	11.9	78
234	Molecular approaches in bioremediation. *Current Opinion in Biotechnology*, **2008**, 19, 572-8	11.4	78
233	Control and benefits of CP4-57 prophage excision in Escherichia coli biofilms. *ISME Journal*, **2009**, 3, 1164-79	11.9	77
232	Type II toxin/antitoxin MqsR/MqsA controls type V toxin/antitoxin GhoT/GhoS. *Environmental Microbiology*, **2013**, 15, 1734-44	5.2	76
231	RalR (a DNase) and RalA (a small RNA) form a type I toxin-antitoxin system in Escherichia coli. *Nucleic Acids Research*, **2014**, 42, 6448-62	20.1	76
230	Persistence Increases in the Absence of the Alarmone Guanosine Tetraphosphate by Reducing Cell Growth. *Scientific Reports*, **2016**, 6, 20519	4.9	76
229	The importance of live biofilms in corrosion protection. *Corrosion Science*, **2005**, 47, 279-287	6.8	74
228	Saturation mutagenesis of toluene ortho-monooxygenase of Burkholderia cepacia G4 for Enhanced 1-naphthol synthesis and chloroform degradation. *Applied and Environmental Microbiology*, **2004**, 70, 3246-52	4.8	73
227	DNA-crosslinker cisplatin eradicates bacterial persister cells. *Biotechnology and Bioengineering*, **2016**, 113, 1984-92	4.9	72
226	A metagenomic assessment of the bacteria associated with Lucilia sericata and Lucilia cuprina (Diptera: Calliphoridae). *Applied Microbiology and Biotechnology*, **2015**, 99, 869-83	5.7	70
225	Altering toluene 4-monooxygenase by active-site engineering for the synthesis of 3-methoxycatechol, methoxyhydroquinone, and methylhydroquinone. *Journal of Bacteriology*, **2004** , 186, 4705-13	3.5	70
224	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	4.8	70
223	Toxin YafQ increases persister cell formation by reducing indole signalling. *Environmental Microbiology*, **2015**, 17, 1275-85	5.2	69
222	Resistance to the quorum-quenching compounds brominated furanone C-30 and 5-fluorouracil in Pseudomonas aeruginosa clinical isolates. *Pathogens and Disease*, **2013**, 68, 8-11	4.2	66
221	Antitoxin MqsA represses curli formation through the master biofilm regulator CsgD. *Scientific Reports*, **2013**, 3, 3186	4.9	65
220	Toxin-Antitoxin Systems in Clinical Pathogens. *Toxins*, **2016**, 8,	4.9	65
219	Interkingdom responses of flies to bacteria mediated by fly physiology and bacterial quorum sensing. *Animal Behaviour*, **2012**, 84, 1449-1456	2.8	64
218	Engineering a novel c-di-GMP-binding protein for biofilm dispersal. *Environmental Microbiology*, **2011**, 13, 631-42	5.2	64

217	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	6.5	64
216	Aluminum- and mild steel-binding peptides from phage display. *Applied Microbiology and Biotechnology*, **2005**, 68, 505-9	5.7	64
215	Temporal regulation of enterohemorrhagic Escherichia coli virulence mediated by autoinducer-2. *Applied Microbiology and Biotechnology*, **2008**, 78, 811-9	5.7	63
214	Antitoxin DinJ influences the general stress response through transcript stabilizer CspE. *Environmental Microbiology*, **2012**, 14, 669-79	5.2	62
213	Controlling the regiospecific oxidation of aromatics via active site engineering of toluene para-monooxygenase of Ralstonia pickettii PKO1. *Journal of Biological Chemistry*, **2005**, 280, 506-14	5.4	62
212	Enantioconvergent production of (R)-1-phenyl-1,2-ethanediol from styrene oxide by combining the Solanum tuberosum and an evolved Agrobacterium radiobacter AD1 epoxide hydrolases. *Biotechnology and Bioengineering*, **2006**, 94, 522-9	4.9	61
211	Protein engineering of toluene-o-xylene monooxygenase from Pseudomonas stutzeri OX1 for synthesizing 4-methylresorcinol, methylhydroquinone, and pyrogallol. *Applied and Environmental Microbiology*, **2004**, 70, 3253-62	4.8	61
210	Rhizosphere competitiveness of trichloroethylene-degrading, poplar-colonizing recombinant bacteria. *Applied and Environmental Microbiology*, **2000**, 66, 4673-8	4.8	61
209	Single cell observations show persister cells wake based on ribosome content. *Environmental Microbiology*, **2018**, 20, 2085-2098	5.2	60
208	Post-segregational Killing and Phage Inhibition Are Not Mediated by Cell Death Through Toxin/Antitoxin Systems. *Frontiers in Microbiology*, **2018**, 9, 814	5.7	59
207	Escherichia coli hydrogenase activity and H2 production under glycerol fermentation at a low pH. *International Journal of Hydrogen Energy*, **2011**, 36, 4323-4331	6.7	59
206	Repurposing of Anticancer Drugs for the Treatment of Bacterial Infections. *Current Topics in Medicinal Chemistry*, **2017**, 17, 1157-1176	3	59
205	Toxin GhoT of the GhoT/GhoS toxin/antitoxin system damages the cell membrane to reduce adenosine triphosphate and to reduce growth under stress. *Environmental Microbiology*, **2014**, 16, 1741-54	5.2	58
204	Bacteria mediate oviposition by the black soldier fly, Hermetia illucens (L.), (Diptera: Stratiomyidae). *Scientific Reports*, **2013**, 3, 2563	4.9	57
203	Pseudomonas aeruginosa PAO1 virulence factors and poplar tree response in the rhizosphere. *Microbial Biotechnology*, **2008**, 1, 17-29	6.3	57
202	Persistent Persister Misperceptions. *Frontiers in Microbiology*, **2016**, 7, 2134	5.7	57
201	Phosphodiesterase DosP increases persistence by reducing cAMP which reduces the signal indole. *Biotechnology and Bioengineering*, **2015**, 112, 588-600	4.9	56
200	Antibiotic-tolerant Staphylococcus aureus Biofilm Persists on Arthroplasty Materials. *Clinical Orthopaedics and Related Research*, **2016**, 474, 1649-56	2.2	56

199	Protein acetylation in prokaryotes increases stress resistance. *Biochemical and Biophysical Research Communications*, **2011**, 410, 846-51	3.4	56
198	Escherichia coli transcription factor YncC (McbR) regulates colanic acid and biofilm formation by repressing expression of periplasmic protein YbiM (McbA). *ISME Journal*, **2008**, 2, 615-31	11.9	56
197	Toluene 3-monooxygenase of Ralstonia pickettii PKO1 is a para-hydroxylating enzyme. *Journal of Bacteriology*, **2004**, 186, 3117-23	3.5	56
196	Gene expression in Bacillus subtilis surface biofilms with and without sporulation and the importance of yveR for biofilm maintenance. *Biotechnology and Bioengineering*, **2004**, 86, 344-64	4.9	56
195	Inhibition of Bacillus anthracis growth and virulence-gene expression by inhibitors of quorum-sensing. *Journal of Infectious Diseases*, **2005**, 191, 1881-8	7	56
194	Halogenated indoles eradicate bacterial persister cells and biofilms. *AMB Express*, **2016**, 6, 123	4.1	56
193	Controlling biofilm formation, prophage excision and cell death by rewiring global regulator H-NS of Escherichia coli. *Microbial Biotechnology*, **2010**, 3, 344-56	6.3	55
192	Oxidation of trichloroethylene, 1,1-dichloroethylene, and chloroform by toluene/o-xylene monooxygenase from Pseudomonas stutzeri OX1. *Applied and Environmental Microbiology*, **1998**, 64, 3023-4	4.8	55
191	The HigB/HigA toxin/antitoxin system of Pseudomonas aeruginosa influences the virulence factors pyochelin, pyocyanin, and biofilm formation. *MicrobiologyOpen*, **2016**, 5, 499-511	3.4	54
190	Can resistance against quorum-sensing interference be selected?. *ISME Journal*, **2016**, 10, 4-10	11.9	53
189	A microfluidic device for high throughput bacterial biofilm studies. *Lab on A Chip*, **2012**, 12, 1157-63	7.2	52
188	Differential gene expression to investigate the effect of (5Z)-4-bromo-5-(bromomethylene)-3-butyl-2(5H)-furanone on Bacillus subtilis. *Applied and Environmental Microbiology*, **2004**, 70, 4941-9	4.8	52
187	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, 46810-7	5.4	52
186	Effect of chemically-induced, cloned-gene expression on protein synthesis in E. Coli. *Biotechnology and Bioengineering*, **1991**, 38, 397-412	4.9	52
185	Identification of stress-related proteins in Escherichia coli using the pollutant cis-dichloroethylene. *Journal of Applied Microbiology*, **2010**, 108, 2088-102	4.7	51
184	Metabolic engineering of Escherichia coli to enhance hydrogen production from glycerol. *Applied Microbiology and Biotechnology*, **2014**, 98, 4757-70	5.7	50
183	Hydrogen production by recombinant Escherichia coli strains. *Microbial Biotechnology*, **2012**, 5, 214-25	6.3	50
182	The neuroendocrine hormone norepinephrine increases Pseudomonas aeruginosa PA14 virulence through the las quorum-sensing pathway. *Applied Microbiology and Biotechnology*, **2009**, 84, 763-76	5.7	50

181	5-Fluorouracil reduces biofilm formation in Escherichia coli K-12 through global regulator AriR as an antivirulence compound. *Applied Microbiology and Biotechnology*, **2009**, 82, 525-33	5.7	49
180	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, 2285-96	5.4	49
179	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, 689-95	5.7	49
178	Engineering global regulator Hha of Escherichia coli to control biofilm dispersal. *Microbial Biotechnology*, **2010**, 3, 717-28	6.3	47
177	2,4-Dichlorophenol degradation using Streptomyces viridosporus T7A lignin peroxidase. *Biotechnology Progress*, **1997**, 13, 53-9	2.8	47
176	Interference with the quorum sensing systems in a Vibrio harveyi strain alters the growth rate of gnotobiotically cultured rotifer Brachionus plicatilis. *Journal of Applied Microbiology*, **2007**, 103, 194-203	4.7	47
175	Protein engineering of toluene 4-monooxygenase of Pseudomonas mendocina KR1 for synthesizing 4-nitrocatechol from nitrobenzene. *Biotechnology and Bioengineering*, **2004**, 87, 779-90	4.9	46
174	Corrosion control using regenerative biofilms (CCURB) on brass in different media. *Corrosion Science*, **2002**, 44, 2291-2302	6.8	46
173	CO2 sequestration by methanogens in activated sludge for methane production. *Applied Energy*, **2015**, 142, 426-434	10.7	45
172	Repurposing the anticancer drug mitomycin C for the treatment of persistent Acinetobacter baumannii infections. *International Journal of Antimicrobial Agents*, **2017**, 49, 88-92	14.3	45
171	Inhibition of hydrogen uptake in Escherichia coli by expressing the hydrogenase from the cyanobacterium Synechocystis sp. PCC 6803. *BMC Biotechnology*, **2007**, 7, 25	3.5	45
170	Protein engineering of hydrogenase 3 to enhance hydrogen production. *Applied Microbiology and Biotechnology*, **2008**, 79, 77-86	5.7	45
169	Inhibiting mild steel corrosion from sulfate-reducing and iron-oxidizing bacteria using gramicidin-S-producing biofilms. *Applied Microbiology and Biotechnology*, **2004**, 65, 747-53	5.7	44
168	Characterization of axenic Pseudomonas fragi and Escherichia coli biofilms that inhibit corrosion of SAE 1018 steel. *Journal of Applied Microbiology*, **1998**, 84, 485-92	4.7	43
167	A stochastic model of Escherichia coli AI-2 quorum signal circuit reveals alternative synthesis pathways. *Molecular Systems Biology*, **2006**, 2, 67	12.2	43
166	Isolation and characterization of gallium resistant Pseudomonas aeruginosa mutants. *International Journal of Medical Microbiology*, **2013**, 303, 574-82	3.7	42
165	Strategies for combating persister cell and biofilm infections. *Microbial Biotechnology*, **2017**, 10, 1054-1056	5.9	42
164	The R1 conjugative plasmid increases Escherichia coli biofilm formation through an envelope stress response. *Applied and Environmental Microbiology*, **2008**, 74, 2690-9	4.8	42

163	Pitting corrosion control using regenerative biofilms on aluminium 2024 in artificial seawater. *Corrosion Science*, **2001**, 43, 2121-2133	6.8	42
162	GGDEF proteins YeaI, YedQ, and YfiN reduce early biofilm formation and swimming motility in Escherichia coli. *Applied Microbiology and Biotechnology*, **2011**, 90, 651-8	5.7	41
161	A Primary Physiological Role of Toxin/Antitoxin Systems Is Phage Inhibition. *Frontiers in Microbiology*, **2020**, 11, 1895	5.7	41
160	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	5.7	40
159	Engineering TCE-degrading rhizobacteria for heavy metal accumulation and enhanced TCE degradation. *Biotechnology and Bioengineering*, **2006**, 95, 399-403	4.9	40
158	Protein engineering of toluene monooxygenases for synthesis of chiral sulfoxides. *Applied and Environmental Microbiology*, **2008**, 74, 1555-66	4.8	39
157	Saturation mutagenesis of Burkholderia cepacia R34 2,4-dinitrotoluene dioxygenase at DntAc valine 350 for synthesizing nitrohydroquinone, methylhydroquinone, and methoxyhydroquinone. *Applied and Environmental Microbiology*, **2004**, 70, 3222-31	4.8	39
156	Optimization of trichloroethylene degradation using soluble methane monooxygenase of Methylosinus trichosporium OB3b expressed in recombinant bacteria. *Biotechnology and Bioengineering*, **1996**, 51, 349-59	4.9	39
155	Living biofouling-resistant membranes as a model for the beneficial use of engineered biofilms. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E2802-11	11.5	39
154	ppGpp ribosome dimerization model for bacterial persister formation and resuscitation. *Biochemical and Biophysical Research Communications*, **2020**, 523, 281-286	3.4	38
153	Cryptic prophages as targets for drug development. *Drug Resistance Updates*, **2016**, 27, 30-8	23.2	38
152	High variability in quorum quenching and growth inhibition by furanone C-30 in Pseudomonas aeruginosa clinical isolates from cystic fibrosis patients. *Pathogens and Disease*, **2015**, 73, ftv040	4.2	37
151	An oxygen-sensitive toxin-antitoxin system. *Nature Communications*, **2016**, 7, 13634	17.4	37
150	IS5 inserts upstream of the master motility operon flhDC in a quasi-Lamarckian way. *ISME Journal*, **2011**, 5, 1517-25	11.9	36
149	The MqsR/MqsA toxin/antitoxin system protects Escherichia coli during bile acid stress. *Environmental Microbiology*, **2015**, 17, 3168-81	5.2	35
148	Biohydrogen production from oil palm frond juice and sewage sludge by a metabolically engineered Escherichia coli strain. *International Journal of Hydrogen Energy*, **2013**, 38, 10277-10283	6.7	35
147	Metabolic engineering of Methanosarcina acetivorans for lactate production from methane. *Biotechnology and Bioengineering*, **2017**, 114, 852-861	4.9	33
146	Gallium induces the production of virulence factors in Pseudomonas aeruginosa. *Pathogens and Disease*, **2014**, 70, 95-8	4.2	33

145	Escherichia coli BdcA controls biofilm dispersal in Pseudomonas aeruginosa and Rhizobium meliloti. *BMC Research Notes*, **2011**, 4, 447	2.3	33
144	Tyrosine Phosphatase TpbA of Pseudomonas aeruginosa Controls Extracellular DNA via Cyclic Diguanylic Acid Concentrations. *Environmental Microbiology Reports*, **2010**, 2, 449-55	3.7	33
143	Metabolic pathway engineering to enhance aerobic degradation of chlorinated ethenes and to reduce their toxicity by cloning a novel glutathione S-transferase, an evolved toluene o-monooxygenase, and gamma-glutamylcysteine synthetase. *Environmental Microbiology*, **2004**, 6, 491-500	5.2	33
142	Persister Cells Resuscitate Using Membrane Sensors that Activate Chemotaxis, Lower cAMP Levels, and Revive Ribosomes. *IScience*, **2020**, 23, 100792	6.1	33
141	Rhamnolipids from disperse the biofilms of sulfate-reducing bacteria. *Npj Biofilms and Microbiomes*, **2018**, 4, 22	8.2	33
140	Toxin/Antitoxin System Paradigms: Toxins Bound to Antitoxins Are Not Likely Activated by Preferential Antitoxin Degradation. *Advanced Biology*, **2020**, 4, e1900290	3.5	32
139	Influence of Escherichia coli hydrogenases on hydrogen fermentation from glycerol. *International Journal of Hydrogen Energy*, **2013**, 38, 3905-3912	6.7	32
138	Reductive transformation of TNT by Escherichia coli: pathway description. *Applied Microbiology and Biotechnology*, **2005**, 67, 397-404	5.7	32
137	Depression of protein synthetic capacity due to cloned-gene expression in E. coli. *Biotechnology and Bioengineering*, **1990**, 36, 865-78	4.9	32
136	Viable bacteria persist on antibiotic spacers following two-stage revision for periprosthetic joint infection. *Journal of Orthopaedic Research*, **2018**, 36, 452-458	3.8	30
135	Polyphosphate, cyclic AMP, guanosine tetraphosphate, and c-di-GMP reduce in vitro Lon activity. *Bioengineered*, **2014**, 5, 264-8	5.7	30
134	Proteome changes after metabolic engineering to enhance aerobic mineralization of cis-1,2-dichloroethylene. *Journal of Proteome Research*, **2006**, 5, 1388-97	5.6	30
133	Aerobic degradation of mixtures of chlorinated aliphatics by cloned toluene-o-xylene monooxygenase and toluene o-monooxygenase in resting cells. *Biotechnology and Bioengineering*, **2000**, 70, 693-8	4.9	30
132	YeeO from Escherichia coli exports flavins. *Bioengineered*, **2014**, 5, 386-92	5.7	29
131	Trichloroethylene mineralization in a fixed-film bioreactor using a pure culture expressing constitutively toluene ortho -monooxygenase. *Biotechnology and Bioengineering*, **1997**, 55, 674-85	4.9	29
130	Protein engineering of toluene-o-xylene monooxygenase from Pseudomonas stutzeri OX1 for enhanced chlorinated ethene degradation and o-xylene oxidation. *Applied Microbiology and Biotechnology*, **2005**, 68, 510-7	5.7	29
129	Tolerant, Growing Cells from Nutrient Shifts Are Not Persister Cells. *MBio*, **2017**, 8,	7.8	28
128	Forming and waking dormant cells: The ppGpp ribosome dimerization persister model. *Biofilm*, **2020**, 2, 100018	5.9	28

127	Protein engineering of the transcriptional activator FhlA To enhance hydrogen production in Escherichia coli. *Applied and Environmental Microbiology*, **2009**, 75, 5639-46	4.8	28
126	Saturation mutagenesis of 2,4-DNT dioxygenase of Burkholderia sp. strain DNT for enhanced dinitrotoluene degradation. *Biotechnology and Bioengineering*, **2005**, 92, 416-26	4.9	28
125	Chemotaxis of Pseudomonas stutzeri OX1 and Burkholderia cepacia G4 toward chlorinated ethenes. *Applied Microbiology and Biotechnology*, **2005**, 66, 696-701	5.7	28
124	Pyocyanin Restricts Social Cheating in. *Frontiers in Microbiology*, **2018**, 9, 1348	5.7	27
123	Reactive micromixing eliminates fouling and concentration polarization in reverse osmosis membranes. *Journal of Membrane Science*, **2017**, 542, 8-17	9.6	27
122	Transcriptomic analysis for genetic mechanisms of the factors related to biofilm formation in Escherichia coli O157:H7. *Current Microbiology*, **2011**, 62, 1321-30	2.4	27
121	Protein engineering of toluene-o-xylene monooxygenase from Pseudomonas stutzeri OX1 for oxidizing nitrobenzene to 3-nitrocatechol, 4-nitrocatechol, and nitrohydroquinone. *Journal of Biotechnology*, **2005**, 115, 145-56	3.7	27
120	Regiospecific oxidation of naphthalene and fluorene by toluene monooxygenases and engineered toluene 4-monooxygenases of Pseudomonas mendocina KR1. *Biotechnology and Bioengineering*, **2005**, 90, 85-94	4.9	27
119	Phenol and 2-naphthol production by toluene 4-monooxygenases using an aqueous/dioctyl phthalate system. *Applied Microbiology and Biotechnology*, **2005**, 68, 614-21	5.7	27
118	Assessing methanotrophy and carbon fixation for biofuel production by Methanosarcina acetivorans. *Microbial Cell Factories*, **2016**, 15, 10	6.4	26
117	Indole inhibition of N-acylated homoserine lactone-mediated quorum signalling is widespread in Gram-negative bacteria. *Microbiology (United Kingdom)*, **2014**, 160, 2464-2473	2.9	26
116	Magnetic nanofactories: localized synthesis and delivery of quorum-sensing signaling molecule autoinducer-2 to bacterial cell surfaces. *Metabolic Engineering*, **2007**, 9, 228-39	9.7	26
115	Evaluation of the hok/sok killer locus for enhanced plasmid stability. *Biotechnology and Bioengineering*, **1994**, 44, 912-21	4.9	26
114	Indole: An evolutionarily conserved influencer of behavior across kingdoms. *BioEssays*, **2017**, 39, 1600203	4.1	25
113	Protein engineering of the archetypal nitroarene dioxygenase of Ralstonia sp. strain U2 for activity on aminonitrotoluenes and dinitrotoluenes through alpha-subunit residues leucine 225, phenylalanine 350, and glycine 407. *Journal of Bacteriology*, **2005**, 187, 3302-10	3.5	25
112	Commentary: What Is the Link between Stringent Response, Endoribonuclease Encoding Type II Toxin-Antitoxin Systems and Persistence?. *Frontiers in Microbiology*, **2017**, 8, 191	5.7	24
111	Uncharacterized Escherichia coli proteins YdjA and YhjY are related to biohydrogen production. *International Journal of Hydrogen Energy*, **2012**, 37, 17778-17787	6.7	24
110	Role of luxS in Bacillus anthracis growth and virulence factor expression. *Virulence*, **2010**, 1, 72-83	4.7	24

109	Protein engineering of the 4-methyl-5-nitrocatechol monooxygenase from Burkholderia sp. strain DNT for enhanced degradation of nitroaromatics. *Applied and Environmental Microbiology*, **2006**, 72, 3933-9	4.8	24
108	Ribosome dependence of persister cell formation and resuscitation. *Journal of Microbiology*, **2019**, 57, 213-219	3	23
107	Methane oxidation by anaerobic archaea for conversion to liquid fuels. *Journal of Industrial Microbiology and Biotechnology*, **2015**, 42, 391-401	4.2	23
106	Streptomyces-derived actinomycin D inhibits biofilm formation by Staphylococcus aureus and its hemolytic activity. *Biofouling*, **2016**, 32, 45-56	3.3	23
105	Antimicrobial properties of the Escherichia coli R1 plasmid host killing peptide. *Journal of Biotechnology*, **2003**, 100, 1-12	3.7	23
104	Alpha-subunit positions methionine 180 and glutamate 214 of Pseudomonas stutzeri OX1 toluene-o-xylene monooxygenase influence catalysis. *Journal of Bacteriology*, **2005**, 187, 1511-4	3.5	23
103	Exploiting Quorum Sensing Inhibition for the Control of Pseudomonas aeruginosa and Acinetobacter baumannii Biofilms. *Current Topics in Medicinal Chemistry*, **2017**, 17, 1915-1927	3	22
102	A systems-level approach for investigating Pseudomonas aeruginosa biofilm formation. *PLoS ONE*, **2013**, 8, e57050	3.7	21
101	(5Z)-4-bromo-5-(bromomethylene)-3-butyl-2(5H)-furanone reduces corrosion from Desulfotomaculum orientis. *Environmental Microbiology*, **2004**, 6, 535-40	5.2	21
100	(p)ppGpp and Its Role in Bacterial Persistence: New Challenges. *Antimicrobial Agents and Chemotherapy*, **2020**, 64,	5.9	21
99	Selection of Functional Quorum Sensing Systems by Lysogenic Bacteriophages in. *Frontiers in Microbiology*, **2017**, 8, 1669	5.7	20
98	Physiological Function of Rac Prophage During Biofilm Formation and Regulation of Rac Excision in Escherichia coli K-12. *Scientific Reports*, **2015**, 5, 16074	4.9	20
97	Global regulator H-NS and lipoprotein NlpI influence production of extracellular DNA in Escherichia coli. *Biochemical and Biophysical Research Communications*, **2010**, 401, 197-202	3.4	20
96	Orthric Rieske dioxygenases for degrading mixtures of 2,4-dinitrotoluene/naphthalene and 2-amino-4,6-dinitrotoluene/4-amino-2,6-dinitrotoluene. *Applied Microbiology and Biotechnology*, **2006**, 73, 827-38	5.7	20
95	Type VII Toxin/Antitoxin Classification System for Antitoxins that Enzymatically Neutralize Toxins. *Trends in Microbiology*, **2021**, 29, 388-393	12.4	20
94	Computational de novo design of antibodies binding to a peptide with high affinity. *Biotechnology and Bioengineering*, **2017**, 114, 1331-1342	4.9	19
93	Current state and perspectives in hydrogen production by Escherichia coli: roles of hydrogenases in glucose or glycerol metabolism. *Applied Microbiology and Biotechnology*, **2018**, 102, 2041-2050	5.7	19
92	Degradation of perchloroethylene and dichlorophenol by pulsed-electric discharge and bioremediation. *Biotechnology and Bioengineering*, **1998**, 59, 438-44	4.9	19

91	Electron carriers increase electricity production in methane microbial fuel cells that reverse methanogenesis. *Biotechnology for Biofuels*, **2018**, 11, 211	7.8	19
90	McbR/YncC: implications for the mechanism of ligand and DNA binding by a bacterial GntR transcriptional regulator involved in biofilm formation. *Biochemistry*, **2014**, 53, 7223-31	3.2	18
89	Fiber optic monooxygenase biosensor for toluene concentration measurement in aqueous samples. *Biosensors and Bioelectronics*, **2011**, 26, 2407-12	11.8	18
88	TNT and nitroaromatic compounds are chemoattractants for Burkholderia cepacia R34 and Burkholderia sp. strain DNT. *Applied Microbiology and Biotechnology*, **2005**, 69, 321-5	5.7	17
87	Emerging applications of bacteria as antitumor agents. *Seminars in Cancer Biology*, **2021**,	12.7	17
86	Phages Mediate Bacterial Self-Recognition. *Cell Reports*, **2019**, 27, 737-749.e4	10.6	16
85	Interkingdom signal indole inhibits Pseudomonas aeruginosa persister cell waking. *Journal of Applied Microbiology*, **2019**, 127, 1768-1775	4.7	16
84	de novo synthesis of a bacterial toxin/antitoxin system. *Scientific Reports*, **2014**, 4, 4807	4.9	16
83	LuxS coexpression enhances yields of recombinant proteins in Escherichia coli in part through posttranscriptional control of GroEL. *Applied and Environmental Microbiology*, **2011**, 77, 2141-52	4.8	16
82	Transport and survival of GFP-tagged root-colonizing microbes: Implications for rhizodegradation. *European Journal of Soil Biology*, **2007**, 43, 224-232	2.9	16
81	Ligand binding reduces conformational flexibility in the active site of tyrosine phosphatase related to biofilm formation A (TpbA) from Pseudomonasaeruginosa. *Journal of Molecular Biology*, **2013**, 425, 2219-31	6.5	15
80	Tyrosine phosphatase TpbA controls rugose colony formation in Pseudomonas aeruginosa by dephosphorylating diguanylate cyclase TpbB. *Biochemical and Biophysical Research Communications* , **2010**, 402, 351-5	3.4	15
79	Construction of a specialized-ribosome vector or cloned-gene expression in E. coli. *Biotechnology and Bioengineering*, **1991**, 38, 891-906	4.9	15
78	Quorum sensing between Gram-negative bacteria responsible for methane production in a complex waste sewage sludge consortium. *Applied Microbiology and Biotechnology*, **2019**, 103, 1485-1495	5.7	15
77	Tail-Anchored Inner Membrane Protein ElaB Increases Resistance to Stress While Reducing Persistence in Escherichia coli. *Journal of Bacteriology*, **2017**, 199,	3.5	14
76	Identification of a potent indigoid persister antimicrobial by screening dormant cells. *Biotechnology and Bioengineering*, **2019**, 116, 2263-2274	4.9	14
75	Modeling trichloroethylene degradation by a recombinant pseudomonad expressing toluene ortho-monooxygenase in a fixed-film bioreactor. *Biotechnology and Bioengineering*, **1998**, 59, 40-51	4.9	14
74	Production of acetol from glycerol using engineered Escherichia coli. *Bioresource Technology*, **2013**, 149, 238-43	11	13

73	Potassium and sodium transporters of Pseudomonas aeruginosa regulate virulence to barley. *Applied Microbiology and Biotechnology*, **2008**, 79, 843-58	5.7	13
72	Dispersal and inhibitory roles of mannose, 2-deoxy-d-glucose and N-acetylgalactosaminidase on the biofilm of Desulfovibrio vulgaris. *Environmental Microbiology Reports*, **2017**, 9, 779-787	3.7	12
71	Metabolic engineering of Escherichia coli to enhance acetol production from glycerol. *Applied Microbiology and Biotechnology*, **2015**, 99, 7945-52	5.7	12
70	Substrate Binding Protein DppA1 of ABC Transporter DppBCDF Increases Biofilm Formation in by Inhibiting Pf5 Prophage Lysis. *Frontiers in Microbiology*, **2018**, 9, 30	5.7	12
69	Enhanced Expression and Hydrogen Peroxide Dependence of Lignin Peroxidase from Streptomyces viridosporus T7A. *Biotechnology Progress*, **1996**, 12, 40-46	2.8	12
68	Viable but non-culturable cellsare dead. *Environmental Microbiology*, **2021**, 23, 2335-2338	5.2	12
67	Beneficial knockouts in Escherichia coli for producing hydrogen from glycerol. *Applied Microbiology and Biotechnology*, **2015**, 99, 2573-81	5.7	11
66	Biofilm dispersal: deciding when it is better to travel. *Molecular Microbiology*, **2014**, 94, 747-50	4.1	11
65	BdcA, a protein important for Escherichia coli biofilm dispersal, is a short-chain dehydrogenase/reductase that binds specifically to NADPH. *PLoS ONE*, **2014**, 9, e105751	3.7	11
64	Genotypic characterization and phylogenetic relations of Pseudomonas sp. (Formerly P. stutzeri) OX1. *Current Microbiology*, **2006**, 52, 395-9	2.4	11
63	Persister cells resuscitate via ribosome modification by 23S rRNA pseudouridine synthase RluD. *Environmental Microbiology*, **2020**, 22, 850-857	5.2	11
62	Are we really studying persister cells?. *Environmental Microbiology Reports*, **2021**, 13, 3-7	3.7	11
61	Interkingdom Cues by Bacteria Associated with Conspecific and Heterospecific Eggs ofCochliomyia macellariaandChrysomya rufifacies(Diptera: Calliphoridae) Potentially Govern Succession on Carrion. *Annals of the Entomological Society of America*, **2017**, 110, 73-82	2	10
60	Resistance to oxidative stress by inner membrane protein ElaB is regulated by OxyR and RpoS. *Microbial Biotechnology*, **2019**, 12, 392-404	6.3	10
59	Dependent regulator DVU2956 switches Desulfovibrio vulgaris from biofilm formation to planktonic growth and regulates hydrogen sulfide production. *Environmental Microbiology*, **2019**, 21, 3564-3576	5.2	10
58	Glycoside hydrolase DisH from Desulfovibrio vulgaris degrades the N-acetylgalactosamine component of diverse biofilms. *Environmental Microbiology*, **2018**, 20, 2026-2037	5.2	10
57	Interkingdom adenosine signal reduces Pseudomonas aeruginosa pathogenicity. *Microbial Biotechnology*, **2012**, 5, 560-72	6.3	10
56	Effect of Quorum Sensing by Staphylococcus epidermidis on the Attraction Response of Female Adult Yellow Fever Mosquitoes, Aedes aegypti aegypti (Linnaeus) (Diptera: Culicidae), to a Blood-Feeding Source. *PLoS ONE*, **2015**, 10, e0143950	3.7	10

55	An Integrated Modeling and Experimental Approach to Study the Influence of Environmental Nutrients on Biofilm Formation of Pseudomonas aeruginosa. *BioMed Research International*, **2015**, 2015, 506782	3	10
54	Orphan toxin OrtT (YdcX) of Escherichia coli reduces growth during the stringent response. *Toxins*, **2015**, 7, 299-321	4.9	10
53	The role of substrate binding pocket residues phenylalanine 176 and phenylalanine 196 on Pseudomonas sp. OX1 toluene o-xylene monooxygenase activity and regiospecificity. *Biotechnology and Bioengineering*, **2014**, 111, 1506-12	4.9	10
52	Proteomic changes in Escherichia coli TG1 after metabolic engineering for enhanced trichloroethene biodegradation. *Proteomics*, **2003**, 3, 1066-9	4.8	10
51	Active expression of soluble methane monooxygenase from Methylosinus trichosporium OB3b in heterologous hosts. *Microbiology (United Kingdom)*, **2002**, 148, 3328-3329	2.9	10
50	Combatting Persister Cells With Substituted Indoles. *Frontiers in Microbiology*, **2020**, 11, 1565	5.7	10
49	Four products from Escherichia coli pseudogenes increase hydrogen production. *Biochemical and Biophysical Research Communications*, **2013**, 439, 576-9	3.4	9
48	Detection of recombinant Pseudomonas putida in the wheat rhizosphere by fluorescence in situ hybridization targeting mRNA and rRNA. *Applied Microbiology and Biotechnology*, **2008**, 79, 511-8	5.7	9
47	Reductive transformation of TNT by Escherichia coli resting cells: kinetic analysis. *Applied Microbiology and Biotechnology*, **2005**, 69, 326-34	5.7	9
46	Novel polyadenylylation-dependent neutralization mechanism of the HEPN/MNT toxin/antitoxin system. *Nucleic Acids Research*, **2020**, 48, 11054-11067	20.1	9
45	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,	11.5	9
44	Serine Hydroxymethyltransferase ShrA (PA2444) Controls Rugose Small-Colony Variant Formation in. *Frontiers in Microbiology*, **2018**, 9, 315	5.7	7
43	Human intestinal epithelial cell-derived molecule(s) increase enterohemorrhagic Escherichia coli virulence. *FEMS Immunology and Medical Microbiology*, **2012**, 66, 399-410		7
42	Atmospheric plasma induced sterilization and chemical neutralization		7
41	Physiological relevance of successive hydroxylations of toluene by toluene para-monooxygenase of Ralstonia pickettii PKO1. *Biocatalysis and Biotransformation*, **2004**, 22, 283-289	2.5	7
40	A Genome-Scale Modeling Approach to Quantify Biofilm Component Growth of Salmonella Typhimurium. *Journal of Food Science*, **2017**, 82, 154-166	3.4	6
39	GhoT of the GhoT/GhoS toxin/antitoxin system damages lipid membranes by forming transient pores. *Biochemical and Biophysical Research Communications*, **2018**, 497, 467-472	3.4	6
38	Precedence for the structural role of flagella in biofilms. *MBio*, **2013**, 4, e00225-13	7.8	6

37	Rapid methods for high-throughput detection of sulfoxides. *Applied and Environmental Microbiology*, **2009**, 75, 4711-9	4.8	6
36	Oxidation of aminonitrotoluenes by 2,4-DNT dioxygenase of Burkholderia sp. strain DNT. *Biotechnology and Bioengineering*, **2006**, 93, 231-7	4.9	6
35	Alanine 101 and alanine 110 of the alpha subunit of Pseudomonas stutzeri OX1 toluene-o-xylene monooxygenase influence the regiospecific oxidation of aromatics. *Biotechnology and Bioengineering*, **2005**, 92, 652-8	4.9	6
34	Temperature and growth rate effects on the hok/sok killer locus for enhanced plasmid stability. *Biotechnology Progress*, **1994**, 10, 621-9	2.8	6
33	Mechanisms of Tolerance and Resistance to Chlorhexidine in Clinical Strains of Producers of Carbapenemase: Role of New Type II Toxin-Antitoxin System, PemIK. *Toxins*, **2020**, 12,	4.9	6
32	Toxin MqsR cleaves single-stranded mRNA with various 5Rends. *MicrobiologyOpen*, **2016**, 5, 370-7	3.4	5
31	Mesophilic aerobic degradation of a metal lubricant by a biological consortium. *Applied Microbiology and Biotechnology*, **2004**, 65, 620-6	5.7	5
30	Toxins of toxin/antitoxin systems are inactivated primarily through promoter mutations. *Journal of Applied Microbiology*, **2019**, 127, 1859-1868	4.7	4
29	Symbiosis of a P2-family phage and deep-sea Shewanella putrefaciens. *Environmental Microbiology*, **2019**, 21, 4212-4232	5.2	4
28	Metabolic manipulation of methanogens for methane machinations. *Microbial Biotechnology*, **2017**, 10, 9-10	6.3	4
27	Elicitation of lignin peroxidase inStreptomyces lividans. *Applied Biochemistry and Biotechnology*, **1996**, 60, 139-149	3.2	4
26	Toxin YafQ Reduces Escherichia coli Growth at Low Temperatures. *PLoS ONE*, **2016**, 11, e0161577	3.7	4
25	ppGpp Ribosome Dimerization Model for Bacterial Persister Formation and Resuscitation		4
24	Copper Kills Persister Cells. *Antibiotics*, **2020**, 9,	4.9	4
23	Persister Cells Form in the Plant Pathogen subsp. under Different Stress Conditions. *Microorganisms*, **2021**, 9,	4.9	4
22	Conjugative plasmid-encoded toxin-antitoxin system PrpT/PrpA directly controls plasmid copy number. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
21	Precedence for the Role of Indole with Pathogens. *MBio*, **2019**, 10,	7.8	3
20	Seeding Public Goods Is Essential for Maintaining Cooperation in. *Frontiers in Microbiology*, **2019**, 10, 2322	5.7	3

19	Electroporation of Pink-Pigmented methylotrophic bacteria. *Applied Biochemistry and Biotechnology*, **1998**, 73, 81-88	3.2	3
18	Optimization of trichloroethylene degradation using soluble methane monooxygenase of Methylosinus trichosporium OB3b expressed in recombinant bacteria		3
17	Pseudogene YdfW in Escherichia coli decreases hydrogen production through nitrate respiration pathways. *International Journal of Hydrogen Energy*, **2019**, 44, 16212-16223	6.7	2
16	Single Cell Observations Show Persister Cells Wake Based on Ribosome Content		2
15	Persister Cells Resuscitate Using Membrane Sensors that Activate Chemotaxis, Lower cAMP Levels, and Revive Ribosomes		2
14	The Primary Physiological Roles of Autoinducer 2 in Are Chemotaxis and Biofilm Formation. *Microorganisms*, **2021**, 9,	4.9	2
13	The role of PemIK (PemK/PemI) type II TA system from Klebsiella pneumoniae clinical strains in lytic phage infection.. *Scientific Reports*, **2022**, 12, 4488	4.9	2
12	Backbone and sidechain (1)H, (15)N and (13)C assignments of Tyrosine Phosphatase related to Biofilm formation A (TpbA) of Pseudomonas aeruginosa. *Biomolecular NMR Assignments*, **2013**, 7, 57-9	0.7	1
11	Controlling Regiospecific Oxidation of Aromatics and the Degradation of Chlorinated Aliphatics via Active Site Engineering of Toluene Monooxygenases **2006**, 237-286		1
10	Interkingdom Signal Indole Inhibits Pseudomonas aeruginosa Persister Cell Waking		1
9	Persister Cells Resuscitate via Ribosome Modification by 23S rRNA Pseudouridine Synthase RluD		1
8	Pseudogene product YqiG is important for expression and biohydrogen production in BW25113. *3 Biotech*, **2018**, 8, 435	2.8	1
7	Vibrio splendidus persister cells induced by host coelomic fluids show a similar phenotype to antibiotic-induced counterparts. *Environmental Microbiology*, **2021**, 23, 5605-5620	5.2	1
6	Escherichia coli cryptic prophages sense nutrients to influence persister cell resuscitation. *Environmental Microbiology*, **2021**, 23, 7245-7254	5.2	0
5	Mostly dead and all dead: response to ℞what do we mean by viability in terms of "viable but non-culturable cells"℞ *Environmental Microbiology Reports*, **2021**, 13, 253-254	3.7	0
4	Waiting for Godot: response to ℞How dead is dead? Viable but non-culturable versus persister cells℞ *Environmental Microbiology Reports*, **2021**, 13, 246-247	3.7	0
3	Modeling Framework for investigating the Influence of Amino Acids on the Planktonic-Biofilm Transition of Pseudomonas aeruginosa. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 803-808		
2	Concerns with computational protein engineering programmes IPRO and OptMAVEn and metabolic pathway engineering programme optStoic. *Open Biology*, **2021**, 11, 200173	7	

1 Quorum Sensing Systems and Persistence **2018**, 17-27