

Raymond J J Turner

List of Publications by Citations

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224
papers

9,938
citations

50
h-index

92
g-index

250
ext. papers

11,775
ext. citations

4.7
avg, IF

6.55
L-index

#	Paper	IF	Citations
224	Antimicrobial activity of metals: mechanisms, molecular targets and applications. <i>Nature Reviews Microbiology</i> , 2013 , 11, 371-84	22.2	1440
223	Multimetal resistance and tolerance in microbial biofilms. <i>Nature Reviews Microbiology</i> , 2007 , 5, 928-38	22.2	446
222	A novel and ubiquitous system for membrane targeting and secretion of cofactor-containing proteins. <i>Cell</i> , 1998 , 93, 93-101	56.2	420
221	The SMR family: a novel family of multidrug efflux proteins involved with the efflux of lipophilic drugs. <i>Molecular Microbiology</i> , 1996 , 19, 1167-75	4.1	232
220	Anti-adhesion activity of two biosurfactants produced by <i>Bacillus</i> spp. prevents biofilm formation of human bacterial pathogens. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 541-53	5.7	191
219	Microtiter susceptibility testing of microbes growing on peg lids: a miniaturized biofilm model for high-throughput screening. <i>Nature Protocols</i> , 2010 , 5, 1236-54	18.8	190
218	Small multidrug resistance proteins: a multidrug transporter family that continues to grow. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 1814-38	3.8	179
217	Biofilm susceptibility to metal toxicity. <i>Environmental Microbiology</i> , 2004 , 6, 1220-7	5.2	169
216	Persister cells, the biofilm matrix and tolerance to metal cations in biofilm and planktonic <i>Pseudomonas aeruginosa</i> . <i>Environmental Microbiology</i> , 2005 , 7, 981-94	5.2	160
215	Visible fluorescent detection of proteins in polyacrylamide gels without staining. <i>Analytical Biochemistry</i> , 2004 , 326, 13-20	3.1	157
214	Selenium metabolism in <i>Escherichia coli</i> . <i>BioMetals</i> , 1998 , 11, 223-7	3.4	151
213	Identification of a twin-arginine leader-binding protein. <i>Molecular Microbiology</i> , 2001 , 40, 323-31	4.1	149
212	The chromosomal toxin gene <i>yafQ</i> is a determinant of multidrug tolerance for <i>Escherichia coli</i> growing in a biofilm. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 2253-8	5.9	148
211	Tellurite reductase activity of nitrate reductase is responsible for the basal resistance of <i>Escherichia coli</i> to tellurite. <i>Microbiology (United Kingdom)</i> , 1997 , 143 (Pt 4), 1181-1189	2.9	148
210	Biogenic selenium and tellurium nanoparticles synthesized by environmental microbial isolates efficaciously inhibit bacterial planktonic cultures and biofilms. <i>Frontiers in Microbiology</i> , 2015 , 6, 584	5.7	132
209	Inorganic polyphosphate and energy metabolism in mammalian cells. <i>Journal of Biological Chemistry</i> , 2010 , 285, 9420-9428	5.4	132
208	Copper and quaternary ammonium cations exert synergistic bactericidal and antibiofilm activity against <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 2870-81	5.9	121

207	The bacterial response to the chalcogen metalloids Se and Te. <i>Advances in Microbial Physiology</i> , 2008 , 53, 1-72	4.4	117
206	Differences in metabolism between the biofilm and planktonic response to metal stress. <i>Journal of Proteome Research</i> , 2011 , 10, 3190-9	5.6	109
205	The use of microscopy and three-dimensional visualization to evaluate the structure of microbial biofilms cultivated in the Calgary Biofilm Device. <i>Biological Procedures Online</i> , 2006 , 8, 194-215	8.3	104
204	Tellurite-mediated thiol oxidation in <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , 1999 , 145 (Pt 9), 2549-2557	2.9	104
203	Persister cells mediate tolerance to metal oxyanions in <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , 2005 , 151, 3181-3195	2.9	97
202	Metabolomic investigation of the bacterial response to a metal challenge. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 719-28	4.8	93
201	Metal-based antimicrobial strategies. <i>Microbial Biotechnology</i> , 2017 , 10, 1062-1065	6.3	92
200	Multi-species biofilms defined from drinking water microorganisms provide increased protection against chlorine disinfection. <i>Biofouling</i> , 2013 , 29, 917-28	3.3	92
199	Sequence analysis of bacterial redox enzyme maturation proteins (REMPs). <i>Canadian Journal of Microbiology</i> , 2004 , 50, 225-38	3.2	90
198	Selenite biotransformation and detoxification by <i>Stenotrophomonas maltophilia</i> SeITE02: Novel clues on the route to bacterial biogenesis of selenium nanoparticles. <i>Journal of Hazardous Materials</i> , 2017 , 324, 3-14	12.8	88
197	Microbial processing of tellurium as a tool in biotechnology. <i>Biotechnology Advances</i> , 2012 , 30, 954-63	17.8	86
196	High-throughput metal susceptibility testing of microbial biofilms. <i>BMC Microbiology</i> , 2005 , 5, 53	4.5	82
195	Efficacy and Safety of COVID-19 Vaccines: A Systematic Review and Meta-Analysis of Randomized Clinical Trials. <i>Vaccines</i> , 2021 , 9,	5.3	81
194	Identification of a novel ABC transporter required for desiccation tolerance, and biofilm formation in <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> 3841. <i>FEMS Microbiology Ecology</i> , 2010 , 71, 327-40	4.3	80
193	Chromosomal antioxidant genes have metal ion-specific roles as determinants of bacterial metal tolerance. <i>Environmental Microbiology</i> , 2009 , 11, 2491-509	5.2	80
192	Signal peptide-chaperone interactions on the twin-arginine protein transport pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8460-5	11.5	78
191	Glutathione is a target in tellurite toxicity and is protected by tellurite resistance determinants in <i>Escherichia coli</i> . <i>Canadian Journal of Microbiology</i> , 2001 , 47, 33-40	3.2	75
190	Mesoporous Silica-Based Materials with Bactericidal Properties. <i>Small</i> , 2019 , 15, e1900669	11	71

189	Evaluation of microbial biofilm communities from an Alberta oil sands tailings pond. <i>FEMS Microbiology Ecology</i> , 2012 , 79, 240-50	4.3	68
188	Metal resistance in <i>Candida</i> biofilms. <i>FEMS Microbiology Ecology</i> , 2006 , 55, 479-91	4.3	68
187	DmsD is required for the biogenesis of DMSO reductase in <i>Escherichia coli</i> but not for the interaction of the DmsA signal peptide with the Tat apparatus. <i>FEBS Letters</i> , 2003 , 534, 156-60	3.8	67
186	Diversity and evolution of the small multidrug resistance protein family. <i>BMC Evolutionary Biology</i> , 2009 , 9, 140	3	66
185	Removal and biodegradation of naphthenic acids by biochar and attached environmental biofilms in the presence of co-contaminating metals. <i>Bioresource Technology</i> , 2016 , 216, 352-61	11	60
184	The GacS-GacA two-component regulatory system of <i>Pseudomonas fluorescens</i> : a bacterial two-hybrid analysis. <i>FEMS Microbiology Letters</i> , 2009 , 292, 50-6	2.9	59
183	Abundance and Dynamics of Dissolved Organic Carbon in Glacier Systems. <i>Arctic, Antarctic, and Alpine Research</i> , 2006 , 38, 163-172	1.8	59
182	Multiple roles for the twin arginine leader sequence of dimethyl sulfoxide reductase of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2000 , 275, 22526-31	5.4	58
181	Antimicrobial activity of biogenically produced spherical Se-nanomaterials embedded in organic material against <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> strains on hydroxyapatite-coated surfaces. <i>Microbial Biotechnology</i> , 2017 , 10, 804-818	6.3	55
180	<i>Pseudomonas fluorescens</i> ' view of the periodic table. <i>Environmental Microbiology</i> , 2008 , 10, 238-50	5.2	55
179	The twin-arginine leader-binding protein, DmsD, interacts with the TatB and TatC subunits of the <i>Escherichia coli</i> twin-arginine translocase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 32501-6	5.4	54
178	Biosynthesis of selenium-nanoparticles and -nanorods as a product of selenite bioconversion by the aerobic bacterium <i>Rhodococcus aetherivorans</i> BCP1. <i>New Biotechnology</i> , 2018 , 41, 1-8	6.4	54
177	Use of diethyldithiocarbamate for quantitative determination of tellurite uptake by bacteria. <i>Analytical Biochemistry</i> , 1992 , 204, 292-5	3.1	52
176	Computational tools for the secondary analysis of metabolomics experiments. <i>Computational and Structural Biotechnology Journal</i> , 2013 , 4, e201301003	6.8	51
175	Synergistic effect of lipopeptide biosurfactant with antibiotics against <i>Escherichia coli</i> CFT073 biofilm. <i>International Journal of Antimicrobial Agents</i> , 2011 , 37, 324-31	14.3	51
174	The GacS sensor kinase controls phenotypic reversion of small colony variants isolated from biofilms of <i>Pseudomonas aeruginosa</i> PA14. <i>FEMS Microbiology Ecology</i> , 2007 , 59, 32-46	4.3	47
173	Metal ions may suppress or enhance cellular differentiation in <i>Candida albicans</i> and <i>Candida tropicalis</i> biofilms. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 4940-9	4.8	46
172	Investigation of ligand binding to the multidrug resistance protein EmrE by isothermal titration calorimetry. <i>Biophysical Journal</i> , 2005 , 88, 475-82	2.9	46

171	Visualization of proteins in acrylamide gels using ultraviolet illumination. <i>Analytical Biochemistry</i> , 2002 , 301, 91-6	3.1	45
170	Using synchronous fluorescence spectroscopy and principal components analysis to monitor dissolved organic matter dynamics in a glacier system. <i>Hydrological Processes</i> , 2009 , 23, 1487-1500	3.3	44
169	Silver oxynitrate, an unexplored silver compound with antimicrobial and antibiofilm activity. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 4031-9	5.9	43
168	Metabolomics reveals differences of metal toxicity in cultures of <i>Pseudomonas pseudoalcaligenes</i> KF707 grown on different carbon sources. <i>Frontiers in Microbiology</i> , 2015 , 6, 827	5.7	43
167	An evaluation of in vitro protein-protein interaction techniques: assessing contaminating background proteins. <i>Proteomics</i> , 2006 , 6, 2050-69	4.8	43
166	Glutathione is a target in tellurite toxicity and is protected by tellurite resistance determinants in <i>Escherichia coli</i> . <i>Canadian Journal of Microbiology</i> , 2001 , 47, 33-40	3.2	43
165	Metabolomics and its application to studying metal toxicity. <i>Metallomics</i> , 2011 , 3, 1142-52	4.5	41
164	Analyses of both the alkB gene transcriptional start site and alkB promoter-inducing properties of <i>Rhodococcus</i> sp. strain BCP1 grown on n-alkanes. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 1619-27	4.8	41
163	Differences in biofilm and planktonic cell mediated reduction of metalloids. <i>FEMS Microbiology Letters</i> , 2004 , 235, 357-362	2.9	41
162	Clinical characteristics, laboratory findings, radiographic signs and outcomes of 61,742 patients with confirmed COVID-19 infection: A systematic review and meta-analysis. <i>Microbial Pathogenesis</i> , 2020 , 147, 104390	3.8	41
161	Comparison of confirmed COVID-19 with SARS and MERS cases - Clinical characteristics, laboratory findings, radiographic signs and outcomes: A systematic review and meta-analysis. <i>Reviews in Medical Virology</i> , 2020 , 30, e2112	11.7	37
160	<i>Rhodococcus aetherivorans</i> BCP1 as cell factory for the production of intracellular tellurium nanorods under aerobic conditions. <i>Microbial Cell Factories</i> , 2016 , 15, 204	6.4	37
159	Phenotypic and metabolic profiling of colony morphology variants evolved from <i>Pseudomonas fluorescens</i> biofilms. <i>Environmental Microbiology</i> , 2010 , 12, 1565-77	5.2	37
158	Tolerance of <i>Pseudomonas pseudoalcaligenes</i> KF707 to metals, polychlorobiphenyls and chlorobenzoates: effects on chemotaxis-, biofilm- and planktonic-grown cells. <i>FEMS Microbiology Ecology</i> , 2010 , 74, 291-301	4.3	36
157	Neither reduced uptake nor increased efflux is encoded by tellurite resistance determinants expressed in <i>Escherichia coli</i> . <i>Canadian Journal of Microbiology</i> , 1995 , 41, 92-8	3.2	36
156	Secondary multidrug efflux pump mutants alter <i>Escherichia coli</i> biofilm growth in the presence of cationic antimicrobial compounds. <i>Research in Microbiology</i> , 2017 , 168, 208-221	4	35
155	Harnessing oil sands microbial communities for use in ex situ naphthenic acid bioremediation. <i>Chemosphere</i> , 2014 , 97, 78-85	8.4	35
154	In vivo ³¹ P nuclear magnetic resonance investigation of tellurite toxicity in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2004 , 70, 7342-7	4.8	35

153	Reduction of chalcogen oxyanions and generation of nanoprecipitates by the photosynthetic bacterium <i>Rhodobacter capsulatus</i> . <i>Journal of Hazardous Materials</i> , 2014 , 269, 24-30	12.8	34
152	The TatA subunit of <i>Escherichia coli</i> twin-arginine translocase has an N-in topology. <i>Biochemistry</i> , 2007 , 46, 7396-404	3.2	34
151	<i>Escherichia coli</i> TehB requires S-adenosylmethionine as a cofactor to mediate tellurite resistance. <i>Journal of Bacteriology</i> , 2000 , 182, 6509-13	3.5	34
150	Outer membrane protein OmpW participates with small multidrug resistance protein member EmrE in quaternary cationic compound efflux. <i>Journal of Bacteriology</i> , 2014 , 196, 1908-14	3.5	33
149	Small multidrug resistance protein EmrE reduces host pH and osmotic tolerance to metabolic quaternary cation osmoprotectants. <i>Journal of Bacteriology</i> , 2012 , 194, 5941-8	3.5	33
148	Visualizing interactions along the <i>Escherichia coli</i> twin-arginine translocation pathway using protein fragment complementation. <i>PLoS ONE</i> , 2010 , 5, e9225	3.7	33
147	Stability of biogenic metal(loid) nanomaterials related to the colloidal stabilization theory of chemical nanostructures. <i>Critical Reviews in Biotechnology</i> , 2018 , 38, 1137-1156	9.4	32
146	Identification of residues in DmsD for twin-arginine leader peptide binding, defined through random and bioinformatics-directed mutagenesis. <i>Biochemistry</i> , 2008 , 47, 2749-59	3.2	32
145	Transport of physiological nucleosides and anti-viral and anti-neoplastic nucleoside drugs by recombinant <i>Escherichia coli</i> nucleoside-H(+) cotransporter (NupC) produced in <i>Xenopus laevis</i> oocytes. <i>Molecular Membrane Biology</i> , 2004 , 21, 1-10	3.4	32
144	Spectroscopic characterization of thioredoxin covalently modified with monofunctional organoarsenical reagents. <i>Biochemistry</i> , 1987 , 26, 863-71	3.2	32
143	Twin-arginine translocase may have a role in the chaperone function of NarJ from <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006 , 343, 244-51	3.4	31
142	Optimization of expression and the purification by organic extraction of the integral membrane protein EmrE. <i>Protein Expression and Purification</i> , 2002 , 26, 111-21	2	31
141	The efficacy of different anti-microbial metals at preventing the formation of, and eradicating bacterial biofilms of pathogenic indicator strains. <i>Journal of Antibiotics</i> , 2017 , 70, 775-780	3.7	30
140	Assembly, growth and conductive properties of tellurium nanorods produced by <i>Rhodococcus aetherivorans</i> BCP1. <i>Scientific Reports</i> , 2018 , 8, 3923	4.9	30
139	Differential Interactions between Tat-specific redox enzyme peptides and their chaperones. <i>Journal of Bacteriology</i> , 2009 , 191, 2091-101	3.5	30
138	Organic solvent extracted EmrE solubilized in dodecyl maltoside is monomeric and binds drug ligand. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 327, 437-45	3.4	30
137	Physical nature of signal peptide binding to DmsD. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 455, 89-97	4.1	30
136	A subpopulation of <i>Candida albicans</i> and <i>Candida tropicalis</i> biofilm cells are highly tolerant to chelating agents. <i>FEMS Microbiology Letters</i> , 2007 , 272, 172-81	2.9	29

135	The light-induced reactions of tryptophan with halocompounds. <i>Photochemistry and Photobiology</i> , 2002 , 75, 362-8	3.6	29
134	Comparison of influenza type A and B with COVID-19: A global systematic review and meta-analysis on clinical, laboratory and radiographic findings. <i>Reviews in Medical Virology</i> , 2021 , 31, e2179	11.7	29
133	The thiol:disulfide oxidoreductase DsbB mediates the oxidizing effects of the toxic metalloid tellurite (TeO ₃ ²⁻) on the plasma membrane redox system of the facultative phototroph <i>Rhodobacter capsulatus</i> . <i>Journal of Bacteriology</i> , 2007 , 189, 851-9	3.5	28
132	Folding forms of <i>Escherichia coli</i> DmsD, a twin-arginine leader binding protein. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 315, 397-403	3.4	28
131	Growth of <i>Rhodococcus</i> sp. strain BCP1 on gaseous n-alkanes: new metabolic insights and transcriptional analysis of two soluble di-iron monooxygenase genes. <i>Frontiers in Microbiology</i> , 2015 , 6, 393	5.7	27
130	Culturing oil sands microbes as mixed species communities enhances ex situ model naphthenic acid degradation. <i>Frontiers in Microbiology</i> , 2015 , 6, 936	5.7	27
129	Evaluation of extraction protocols for simultaneous polar and non-polar yeast metabolite analysis using multivariate projection methods. <i>Metabolites</i> , 2013 , 3, 592-605	5.6	27
128	Structural analysis of a monomeric form of the twin-arginine leader peptide binding chaperone <i>Escherichia coli</i> DmsD. <i>Journal of Molecular Biology</i> , 2009 , 389, 124-33	6.5	27
127	Fluorescence properties of angiotensin II analogues in receptor-simulating environments: relationship between tyrosinate fluorescence lifetime and biological activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991 , 1065, 21-8	3.8	27
126	Mutagenesis of SugE, a small multidrug resistance protein. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 312, 914-21	3.4	25
125	Biotechnology of <i>Rhodococcus</i> for the production of valuable compounds. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 8567-8594	5.7	25
124	Aerobic Growth of BCP1 Using Selected Naphthenic Acids as the Sole Carbon and Energy Sources. <i>Frontiers in Microbiology</i> , 2018 , 9, 672	5.7	24
123	The activity of silver against <i>Escherichia coli</i> biofilm is increased by a lipopeptide biosurfactant. <i>Canadian Journal of Microbiology</i> , 2010 , 56, 272-8	3.2	24
122	SMR proteins SugE and EmrE bind ligand with similar affinity and stoichiometry. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 335, 105-11	3.4	24
121	Effect of aluminium and copper on biofilm development of <i>Pseudomonas pseudoalcaligenes</i> KF707 and <i>P. fluorescens</i> as a function of different media compositions. <i>Metallomics</i> , 2013 , 5, 723-35	4.5	22
120	Strong poison revisited. <i>Journal of Inorganic Biochemistry</i> , 2007 , 101, 1891-3	4.2	22
119	Evaluation of transmembrane helix prediction methods using the recently defined NMR structures of the coat proteins from bacteriophages M13 and Pf1. <i>BBA - Proteins and Proteomics</i> , 1993 , 1202, 161-8		22
118	Silver oxynitrate - an efficacious compound for the prevention and eradication of dual-species biofilms. <i>Biofouling</i> , 2017 , 33, 460-469	3.3	21

117	Genome sequence of the polychlorinated-biphenyl degrader <i>Pseudomonas pseudoalcaligenes</i> KF707. <i>Journal of Bacteriology</i> , 2012 , 194, 4426-7	3.5	21
116	DmsD, a Tat system specific chaperone, interacts with other general chaperones and proteins involved in the molybdenum cofactor biosynthesis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 1301-9	4	21
115	Identification of Resistance Genes and Response to Arsenic in BCP1. <i>Frontiers in Microbiology</i> , 2019 , 10, 888	5.7	20
114	Multimeric forms of the small multidrug resistance protein EmrE in anionic detergent. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 526-35	3.8	20
113	Zinc and SARS-CoV-2: A molecular modeling study of Zn interactions with RNA-dependent RNA-polymerase and 3C-like proteinase enzymes. <i>International Journal of Molecular Medicine</i> , 2021 , 47, 326-334	4.4	20
112	Nanomaterials in Wound Healing and Infection Control. <i>Antibiotics</i> , 2021 , 10,	4.9	20
111	Tellurite-dependent blackening of bacteria emerges from the dark ages. <i>Environmental Chemistry</i> , 2019 , 16, 266	3.2	19
110	Using a Chemical Genetic Screen to Enhance Our Understanding of the Antibacterial Properties of Silver. <i>Genes</i> , 2018 , 9,	4.2	19
109	Physical-Chemical Properties of Biogenic Selenium Nanostructures Produced by <i>SeITE02</i> and sp. MPV1. <i>Frontiers in Microbiology</i> , 2018 , 9, 3178	5.7	19
108	Mixed-species biofilms cultured from an oil sand tailings pond can biomineralize metals. <i>Microbial Ecology</i> , 2014 , 68, 70-80	4.4	18
107	A histidine-kinase <i>cheA</i> gene of <i>Pseudomonas pseudoalcaligenes</i> KF707 not only has a key role in chemotaxis but also affects biofilm formation and cell metabolism. <i>Biofouling</i> , 2011 , 27, 33-46	3.3	18
106	Making water-soluble integral membrane proteins in vivo using an amphipathic protein fusion strategy. <i>Nature Communications</i> , 2015 , 6, 6826	17.4	17
105	Metal Nanoparticle-Microbe Interactions: Synthesis and Antimicrobial Effects. <i>Particle and Particle Systems Characterization</i> , 2020 , 37, 1900419	3.1	17
104	Visualizing a multidrug resistance protein, EmrE, with major bacterial lipids using Brewster angle microscopy. <i>Chemistry and Physics of Lipids</i> , 2013 , 167-168, 33-42	3.7	17
103	<i>Pseudomonas pseudoalcaligenes</i> KF707 upon biofilm formation on a polystyrene surface acquire a strong antibiotic resistance with minor changes in their tolerance to metal cations and metalloids. <i>Archives of Microbiology</i> , 2008 , 190, 29-39	3	17
102	Examination of EmrE conformational differences in various membrane mimetic environments. <i>Biochemistry and Cell Biology</i> , 2003 , 81, 61-70	3.6	17
101	Cardiolipin synthase A colocalizes with cardiolipin and osmosensing transporter ProP at the poles of <i>Escherichia coli</i> cells. <i>Molecular Microbiology</i> , 2018 , 107, 623-638	4.1	16
100	Development of indole chemistry to label tryptophan residues in protein for determination of tryptophan surface accessibility. <i>Protein Science</i> , 2007 , 16, 1204-13	6.3	16

99	Screening selectively harnessed environmental microbial communities for biodegradation of polycyclic aromatic hydrocarbons in moving bed biofilm reactors. <i>Bioresource Technology</i> , 2017 , 228, 116-124	11	15
98	Surveillance and molecular characterization of non-tuberculous mycobacteria in a hospital water distribution system over a three-year period. <i>Journal of Hospital Infection</i> , 2014 , 87, 59-62	6.9	15
97	Real-time imaging of lipid domains and distinct coexisting membrane protein clusters. <i>Chemistry and Physics of Lipids</i> , 2012 , 165, 216-24	3.7	15
96	Twin-arginine signal peptide attributes effective display of CD147 to filamentous phage. <i>Applied Microbiology and Biotechnology</i> , 2006 , 69, 697-703	5.7	15
95	The role of cysteine residues in tellurite resistance mediated by the TehAB determinant. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 277, 394-400	3.4	15
94	'Come into the fold': A comparative analysis of bacterial redox enzyme maturation protein members of the NarJ subfamily. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 2971-2984	3.8	14
93	The hydrophobic region of the DmsA twin-arginine leader peptide determines specificity with chaperone DmsD. <i>Biochemistry</i> , 2013 , 52, 7532-41	3.2	14
92	Towards understanding the Tat translocation mechanism through structural and biophysical studies of the amphipathic region of TatA from Escherichia coli. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 2289-96	3.8	14
91	Tyrosinate fluorescence lifetimes for oxytocin and vasopressin in receptor-simulating environments: relationship to biological activity and 1H-NMR data. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 171, 996-1001	3.4	14
90	Membrane composition influences the topology bias of bacterial integral membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 260-70	3.8	13
89	Diversity and evolution of bacterial twin arginine translocase protein, TatC, reveals a protein secretion system that is evolving to fit its environmental niche. <i>PLoS ONE</i> , 2013 , 8, e78742	3.7	13
88	In vivo associations of Escherichia coli NarJ with a peptide of the first 50 residues of nitrate reductase catalytic subunit NarG. <i>Canadian Journal of Microbiology</i> , 2009 , 55, 179-88	3.2	12
87	Comparing system-specific chaperone interactions with their Tat dependent redox enzyme substrates. <i>FEBS Letters</i> , 2010 , 584, 4553-8	3.8	12
86	Effects of the twin-arginine translocase on the structure and antimicrobial susceptibility of Escherichia coli biofilms. <i>Canadian Journal of Microbiology</i> , 2005 , 51, 671-83	3.2	12
85	Alpha-periodicity analysis of small multidrug resistance (SMR) efflux transporters. <i>Biochemistry and Cell Biology</i> , 1998 , 76, 791-797	3.6	12
84	Differences in biofilm and planktonic cell mediated reduction of metalloid oxyanions. <i>FEMS Microbiology Letters</i> , 2004 , 235, 357-62	2.9	12
83	Specificity in the Susceptibilities of , and Clinical Isolates to Six Metal Antimicrobials. <i>Antibiotics</i> , 2019 , 8,	4.9	11
82	Influence of Bacterial Physiology on Processing of Selenite, Biogenesis of Nanomaterials and Their Thermodynamic Stability. <i>Molecules</i> , 2019 , 24,	4.8	11

81	Phenotypic diversification in vivo: <i>Pseudomonas aeruginosa</i> gacS- strains generate small colony variants in vivo that are distinct from in vitro variants. <i>Microbiology (United Kingdom)</i> , 2010 , 156, 3699-3709	2.9	11
80	Identification of trichloroethanol visualized proteins from two-dimensional polyacrylamide gels by mass spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 2388-96	7.8	11
79	Differential effects of a molybdopterin synthase sulfurylase (moeB) mutation on <i>Escherichia coli</i> molybdoenzyme maturation. <i>Biochemistry and Cell Biology</i> , 2002 , 80, 435-43	3.6	11
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