Raymond J J Turner

List of Publications by Year
in descending order

238	13,246	28274	28297
papers	citations	55 h-index	105 g-index

251	251	251	14532
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antimicrobial activity of metals: mechanisms, molecular targets and applications. Nature Reviews Microbiology, 2013, 11, 371-384.	28.6	1,987
2	Multimetal resistance and tolerance in microbial biofilms. Nature Reviews Microbiology, 2007, 5, 928-938.	28.6	545
3	A Novel and Ubiquitous System for Membrane Targeting and Secretion of Cofactor-Containing Proteins. Cell, 1998, 93, 93-101.	28.9	446
4	The SMR family: a novel family of multidrug efflux proteins involved with the efflux of lipophilic drugs. Molecular Microbiology, 1996, 19, 1167-1175.	2.5	275
5	Microtiter susceptibility testing of microbes growing on peg lids: a miniaturized biofilm model for high-throughput screening. Nature Protocols, 2010, 5, 1236-1254.	12.0	262
6	Visible fluorescent detection of proteins in polyacrylamide gels without staining. Analytical Biochemistry, 2004, 326, 13-20.	2.4	252
7	Efficacy and Safety of COVID-19 Vaccines: A Systematic Review and Meta-Analysis of Randomized Clinical Trials. Vaccines, 2021, 9, 467.	4.4	228
8	Small multidrug resistance proteins: A multidrug transporter family that continues to grow. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1814-1838.	2.6	227
9	Anti-adhesion activity of two biosurfactants produced by Bacillus spp. prevents biofilm formation of human bacterial pathogens. Applied Microbiology and Biotechnology, 2009, 83, 541-553.	3.6	225
10	Biofilm susceptibility to metal toxicity. Environmental Microbiology, 2004, 6, 1220-1227.	3.8	202
11	Persister cells, the biofilm matrix and tolerance to metal cations in biofilm and planktonic Pseudomonas aeruginosa. Environmental Microbiology, 2005, 7, 981-994.	3.8	190
12	Selenium metabolism in Escherichia coli. BioMetals, 1998, 11, 223-227.	4.1	189
13	Biogenic selenium and tellurium nanoparticles synthesized by environmental microbial isolates efficaciously inhibit bacterial planktonic cultures and biofilms. Frontiers in Microbiology, 2015, 6, 584.	3.5	189
14	The Chromosomal Toxin Gene yafQ Is a Determinant of Multidrug Tolerance for Escherichia coli Growing in a Biofilm. Antimicrobial Agents and Chemotherapy, 2009, 53, 2253-2258.	3.2	167
15	Tellurite reductase activity of nitrate reductase is responsible for the basal resistance of Escherichia coli to tellurite. Microbiology (United Kingdom), 1997, 143, 1181-1189.	1.8	166
16	Inorganic Polyphosphate and Energy Metabolism in Mammalian Cells. Journal of Biological Chemistry, 2010, 285, 9420-9428.	3.4	161
17	Identification of a twinâ€arginine leaderâ€binding protein. Molecular Microbiology, 2001, 40, 323-331.	2.5	157
18	Copper and Quaternary Ammonium Cations Exert Synergistic Bactericidal and Antibiofilm Activity againstPseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2008, 52, 2870-2881.	3.2	154

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19	Metalâ€based antimicrobial strategies. Microbial Biotechnology, 2017, 10, 1062-1065.	4.2	153
20	The Bacterial Response to the Chalcogen Metalloids Se and Te. Advances in Microbial Physiology, 2007, 53, 1-312.	2.4	152
21	Differences in Metabolism between the Biofilm and Planktonic Response to Metal Stress. Journal of Proteome Research, 2011, 10, 3190-3199.	3.7	136
22	Selenite biotransformation and detoxification by Stenotrophomonas maltophilia SeITE02: Novel clues on the route to bacterial biogenesis of selenium nanoparticles. Journal of Hazardous Materials, 2017, 324, 3-14.	12.4	135
23	Mesoporous Silicaâ€Based Materials with Bactericidal Properties. Small, 2019, 15, e1900669.	10.0	125
24	Multi-species biofilms defined from drinking water microorganisms provide increased protection against chlorine disinfection. Biofouling, 2013, 29, 917-928.	2.2	124
25	The use of microscopy and three-dimensional visualization to evaluate the structure of microbial biofilms cultivated in the calgary biofilm device. Biological Procedures Online, 2006, 8, 194-215.	2.9	121
26	Tellurite-mediated thiol oxidation in Escherichia coli. Microbiology (United Kingdom), 1999, 145, 2549-2557.	1.8	118
27	Microbial processing of tellurium as a tool in biotechnology. Biotechnology Advances, 2012, 30, 954-963.	11.7	116
28	Persister cells mediate tolerance to metal oxyanions in Escherichia coli. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	1.8	113
29	Chromosomal antioxidant genes have metal ionâ€specific roles as determinants of bacterial metal tolerance. Environmental Microbiology, 2009, 11, 2491-2509.	3.8	112
30	Metabolomic Investigation of the Bacterial Response to a Metal Challenge. Applied and Environmental Microbiology, 2009, 75, 719-728.	3.1	110
31	Identification of a novel ABC transporter required for desiccation tolerance, and biofilm formation inRhizobium leguminosarumbv.viciae3841. FEMS Microbiology Ecology, 2010, 71, 327-340.	2.7	97
32	Sequence analysis of bacterial redox enzyme maturation proteins (REMPs). Canadian Journal of Microbiology, 2004, 50, 225-238.	1.7	95
33	High-throughput metal susceptibility testing of microbial biofilms. BMC Microbiology, 2005, 5, 53.	3.3	94
34	Removal and biodegradation of naphthenic acids by biochar and attached environmental biofilms in the presence of co-contaminating metals. Bioresource Technology, 2016, 216, 352-361.	9.6	90
35	Diversity and evolution of the small multidrug resistance protein family. BMC Evolutionary Biology, 2009, 9, 140.	3.2	86
36	Biotechnology of Rhodococcus for the production of valuable compounds. Applied Microbiology and Biotechnology, 2020, 104, 8567-8594.	3.6	85

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37	Signal peptideâ€“chaperone interactions on the twin-arginine protein transport pathway. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8460-8465.	7.1	84
38	Metal resistance in Candida biofilms. FEMS Microbiology Ecology, 2006, 55, 479-491.	2.7	84
39	Evaluation of microbial biofilm communities from an Alberta oil sands tailings pond. FEMS Microbiology Ecology, 2012, 79, 240-250.	2.7	84
40	Glutathione is a target in tellurite toxicity and is protected by tellurite resistance determinants inEscherichia coli. Canadian Journal of Microbiology, 2001, 47, 33-40.	1.7	81
41	Comparison of influenza type A and B with COVIDâ€19: A global systematic review and metaâ€analysis on clinical, laboratory and radiographic findings. Reviews in Medical Virology, 2021, 31, e2179.	8.3	81
42	The GacSÃ¢Â€Â“GacA two-component regulatory system ofPseudomonas fluorescens: a bacterial two-hybrid analysis. FEMS Microbiology Letters, 2009, 292, 50-56.	1.8	79
43	Biosynthesis of selenium-nanoparticles and -nanorods as a product of selenite bioconversion by the aerobic bacterium Rhodococcus aetherivorans BCP1. New Biotechnology, 2018, 41, 1-8.	4.4	79
44	Pseudomonas fluorescens' view of the periodic table. Environmental Microbiology, 2008, 10, 238-250.	3.8	78
45	DmsD is required for the biogenesis of DMSO reductase inEscherichia colibut not for the interaction of the DmsA signal peptide with the Tat apparatus. FEBS Letters, 2003, 534, 156-160.	2.8	76
46	Synergistic effect of lipopeptide biosurfactant with antibiotics against Escherichia coli CFT073 biofilm. International Journal of Antimicrobial Agents, 2011, 37, 324-331.	2.5	72
47	The GacS sensor kinase controls phenotypic reversion of small colony variants isolated from biofilms of Pseudomonas aeruginosa PA14. FEMS Microbiology Ecology, 2007, 59, 32-46.	2.7	70
48	Antimicrobial activity of biogenically produced spherical Seâ€nanomaterials embedded in organic material against Pseudomonas aeruginosa andÂStaphylococcus aureus strains on hydroxyapatiteâ€coated surfaces. Microbial Biotechnology, 2017, 10, 804-818.	4.2	67
49	Clinical characteristics, laboratory findings, radiographic signs and outcomes of 61,742 patients with confirmed COVID-19 infection: A systematic review and meta-analysis. Microbial Pathogenesis, 2020, 147, 104390.	2.9	67
50	Abundance and Dynamics of Dissolved Organic Carbon in Glacier Systems. Arctic, Antarctic, and Alpine Research, 2006, 38, 163-172.	1.1	66
51	Comparison of confirmed <scp>COVID</scp>â€19 with <scp>SARS</scp> and <scp>MERS</scp> cases â€Clinical characteristics, laboratory findings, radiographic signs and outcomes: A systematic review and metaâ€analysis. Reviews in Medical Virology, 2020, 30, e2112.	8.3	63
52	Nanomaterials in Wound Healing and Infection Control. Antibiotics, 2021, 10, 473.	3.7	63
53	Multiple Roles for the Twin Arginine Leader Sequence of Dimethyl Sulfoxide Reductase of Escherichia coli. Journal of Biological Chemistry, 2000, 275, 22526-22531.	3.4	62
54	COMPUTATIONAL TOOLS FOR THE SECONDARY ANALYSIS OF METABOLOMICS EXPERIMENTS. Computational and Structural Biotechnology Journal, 2013, 4, e201301003.	4.1	62

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55	Secondary multidrug efflux pump mutants alter Escherichia coli biofilm growth in the presence of cationic antimicrobial compounds. Research in Microbiology, 2017, 168, 208-221.	2.1	62
56	Growth of Rhodococcus sp. strain BCP1 on gaseous n-alkanes: new metabolic insights and transcriptional analysis of two soluble di-iron monooxygenase genes. Frontiers in Microbiology, 2015, 6, 393.	3.5	60
57	Use of diethyldithiocarbamate for quantitative determination of tellurite uptake by bacteria. Analytical Biochemistry, 1992, 204, 292-295.	2.4	58
58	The Twin-arginine Leader-binding Protein, DmsD, Interacts with the TatB and TatC Subunits of the Escherichia coli Twin-arginine Translocase. Journal of Biological Chemistry, 2003, 278, 32501-32506.	3.4	58
59	Metal Ions May Suppress or Enhance Cellular Differentiation in Candida albicans and Candida tropicalis Biofilms. Applied and Environmental Microbiology, 2007, 73, 4940-4949.	3.1	58
60	Metabolomics and its application to studying metal toxicity. Metallomics, 2011, 3, 1142.	2.4	57
61	Metabolomics reveals differences of metal toxicity in cultures of Pseudomonas pseudoalcaligenes KF707 grown on different carbon sources. Frontiers in Microbiology, 2015, 6, 827.	3.5	56
62	Using synchronous fluorescence spectroscopy and principal components analysis to monitor dissolved organic matter dynamics in a glacier system. Hydrological Processes, 2009, 23, 1487-1500.	2.6	54
63	Analyses of both the alkB Gene Transcriptional Start Site and alkB Promoter-Inducing Properties of Rhodococcus sp. Strain BCP1 Grown on n -Alkanes. Applied and Environmental Microbiology, 2011, 77, 1619-1627.	3.1	54
64	Small Multidrug Resistance Protein EmrE Reduces Host pH and Osmotic Tolerance to Metabolic Quaternary Cation Osmoprotectants. Journal of Bacteriology, 2012, 194, 5941-5948.	2.2	54
65	Silver Oxynitrate, an Unexplored Silver Compound with Antimicrobial and Antibiofilm Activity. Antimicrobial Agents and Chemotherapy, 2015, 59, 4031-4039.	3.2	54
66	Stability of biogenic metal(loid) nanomaterials related to the colloidal stabilization theory of chemical nanostructures. Critical Reviews in Biotechnology, 2018, 38, 1137-1156.	9.0	54
67	Phenotypic and metabolic profiling of colony morphology variants evolved from Pseudomonas fluorescens biofilms. Environmental Microbiology, 2010, 12, 1565-1577.	3.8	53
68	An evaluation ofin vitro proteinâ€“protein interaction techniques: Assessing contaminating background proteins. Proteomics, 2006, 6, 2050-2069.	2.2	52
69	Rhodococcus aetherivorans BCP1 as cell factory for the production of intracellular tellurium nanorods under aerobic conditions. Microbial Cell Factories, 2016, 15, 204.	4.0	50
70	Visualization of Proteins in Acrylamide Gels Using Ultraviolet Illumination. Analytical Biochemistry, 2002, 301, 91-96.	2.4	48
71	The efficacy of different anti-microbial metals at preventing the formation of, and eradicating bacterial biofilms of pathogenic indicator strains. Journal of Antibiotics, 2017, 70, 775-780.	2.0	48
72	Investigation of Ligand Binding to the Multidrug Resistance Protein EmrE by Isothermal Titration Calorimetry. Biophysical Journal, 2005, 88, 475-482.	0.5	47

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73	Assembly, growth and conductive properties of tellurium nanorods produced by Rhodococcus aetherivorans BCP1. Scientific Reports, 2018, 8, 3923.	3.3	47
74	Differences in biofilm and planktonic cell mediated reduction of metalloid oxyanions. FEMS Microbiology Letters, 2004, 235, 357-362.	1.8	46
75	Outer Membrane Protein OmpW Participates with Small Multidrug Resistance Protein Member EmrE in Quaternary Cationic Compound Efflux. Journal of Bacteriology, 2014, 196, 1908-1914.	2.2	46
76	Glutathione is a target in tellurite toxicity and is protected by tellurite resistance determinants in Escherichia coli. Canadian Journal of Microbiology, 2001, 47, 33-40.	1.7	46
77	Neither reduced uptake nor increased efflux is encoded by tellurite resistance determinants expressed inEscherichia coli. Canadian Journal of Microbiology, 1995, 41, 92-98.	1.7	43
78	Escherichia coli TehB RequiresS-Adenosylmethionine as a Cofactor To Mediate Tellurite Resistance. Journal of Bacteriology, 2000, 182, 6509-6513.	2.2	43
79	Harnessing oil sands microbial communities for use in ex situ naphthenic acid bioremediation. Chemosphere, 2014, 97, 78-85.	8.2	43
80	Reduction of chalcogen oxyanions and generation of nanoprecipitates by the photosynthetic bacterium Rhodobacter capsulatus. Journal of Hazardous Materials, 2014, 269, 24-30.	12.4	42
81	A subpopulation ofCandida albicansandCandida tropicalisbiofilm cells are highly tolerant to chelating agents. FEMS Microbiology Letters, 2007, 272, 172-181.	1.8	41
82	Tellurite-dependent blackening of bacteria emerges from the dark ages. Environmental Chemistry, 2019, 16, 266.	1.5	41
83	In Vivo 31 P Nuclear Magnetic Resonance Investigation of Tellurite Toxicity in Escherichia coli. Applied and Environmental Microbiology, 2004, 70, 7342-7347.	3.1	40
84	Tolerance of Pseudomonas pseudoalcaligenes KF707 to metals, polychlorobiphenyls and chlorobenzoates: effects on chemotaxis-, biofilm- and planktonic-grown cells. FEMS Microbiology Ecology, 2010, 74, 291-301.	2.7	40
85	Aerobic Growth of Rhodococcus aetherivorans BCP1 Using Selected Naphthenic Acids as the Sole Carbon and Energy Sources. Frontiers in Microbiology, 2018, 9, 672.	3.5	40
86	Metal Nanoparticleâ€“Microbe Interactions: Synthesis and Antimicrobial Effects. Particle and Particle Systems Characterization, 2020, 37, 1900419.	2.3	39
87	Identification of Resistance Genes and Response to Arsenic in Rhodococcus aetherivorans BCP1. Frontiers in Microbiology, 2019, 10, 888.	3.5	38
88	Visualizing Interactions along the Escherichia coli Twin-Arginine Translocation Pathway Using Protein Fragment Complementation. PLoS ONE, 2010, 5, e9225.	2.5	38
89	Zinc and SARSâ€‘CoVâ€‘2: A molecular modelingÂstudy of Zn interactions with RNAâ€‘dependentÂRNAâ€‘polymerase and 3Câ€‘like proteinase enzymes. International Journal of Molecular Medicine, 2020, 47, 326-334.	4.0	38
90	The Thiol:Disulfide Oxidoreductase DsbB Mediates the Oxidizing Effects of the Toxic Metalloid Tellurite (TeO 3 2â˜) on the Plasma Membrane Redox System of the Facultative Phototroph Rhodobacter capsulatus. Journal of Bacteriology, 2007, 189, 851-859.	2.2	37

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91	Evaluation of Extraction Protocols for Simultaneous Polar and Non-Polar Yeast Metabolite Analysis Using Multivariate Projection Methods. Metabolites, 2013, 3, 592-605.	2.9	37
92	Physicalâ€“Chemical Properties of Biogenic Selenium Nanostructures Produced by Stenotrophomonas maltophilia SeITE02 and Ochrobactrum sp. MPV1. Frontiers in Microbiology, 2018, 9, 3178.	3.5	37
93	Effectiveness of COVID-19 Vaccines against Delta (B.1.617.2) Variant: A Systematic Review and Meta-Analysis of Clinical Studies. Vaccines, 2022, 10, 23.	4.4	37
94	The Light-induced Reactions of Tryptophan with HalocompoundsÂ¶. Photochemistry and Photobiology, 2002, 75, 362.	2.5	36
95	Mutagenesis of SugE, a small multidrug resistance protein. Biochemical and Biophysical Research Communications, 2003, 312, 914-921.	2.1	35
96	The TatA Subunit of Escherichia coli Twin-Arginine Translocase Has an N-in Topology. Biochemistry, 2007, 46, 7396-7404.	2.5	35
97	Identification of Residues in DmsD for Twin-Arginine Leader Peptide Binding, Defined through Random and Bioinformatics-Directed Mutagenesis. Biochemistry, 2008, 47, 2749-2759.	2.5	35
98	Differential Interactions between Tat-Specific Redox Enzyme Peptides and Their Chaperones. Journal of Bacteriology, 2009, 191, 2091-2101.	2.2	35
99	Spectroscopic characterization of thioredoxin covalently modified with monofunctional organoarsenical reagents. Biochemistry, 1987, 26, 863-871.	2.5	34
100	Transport of physiological nucleosides and anti-viral and anti-neoplastic nucleoside drugs by recombinantEscherichia colinucleoside-H+cotransporter (NupC) produced inXenopus laevisoocytes. Molecular Membrane Biology, 2004, 21, 1-10.	2.0	34
101	Physical nature of signal peptide binding to DmsD. Archives of Biochemistry and Biophysics, 2006, 455, 89-97.	3.0	34
102	Needed, new paradigms in antibiotic development. Expert Opinion on Pharmacotherapy, 2010, 11, 1233-1237.	1.8	34
103	Twin-arginine translocase may have a role in the chaperone function of NarJ from Escherichia coli. Biochemical and Biophysical Research Communications, 2006, 343, 244-251.	2.1	33
104	Using a Chemical Genetic Screen to Enhance Our Understanding of the Antibacterial Properties of Silver. Genes, 2018, 9, 344.	2.4	33
105	Fluorescence properties of angiotensin II analogues in receptor-simulating environments: relationship between tyrosinate fluorescence lifetime and biological activity. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1065, 21-28.	2.6	32
106	Mixed-Species Biofilms Cultured from an Oil Sand Tailings Pond can Biomineralize Metals. Microbial Ecology, 2014, 68, 70-80.	2.8	32
107	Culturing oil sands microbes as mixed species communities enhances ex situ model naphthenic acid degradation. Frontiers in Microbiology, 2015, 6, 936.	3.5	32
108	Optimization of expression and the purification by organic extraction of the integral membrane protein EmrE. Protein Expression and Purification, 2002, 26, 111-121.	1.3	31

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109	Organic solvent extracted EmrE solubilized in dodecyl maltoside is monomeric and binds drug ligand. Biochemical and Biophysical Research Communications, 2005, 327, 437-445.	2.1	31
110	Structural Analysis of a Monomeric Form of the Twin-Arginine Leader Peptide Binding Chaperone Escherichia coli DmsD. Journal of Molecular Biology, 2009, 389, 124-133.	4.2	31
111	Processing of Metals and Metalloids by Actinobacteria: Cell Resistance Mechanisms and Synthesis of Metal(loid)-Based Nanostructures. Microorganisms, 2020, 8, 2027.	3.6	31
112	The activity of silver against Escherichia coli biofilm is increased by a lipopeptide biosurfactant. Canadian Journal of Microbiology, 2010, 56, 272-278.	1.7	30
113	Making water-soluble integral membrane proteins in vivo using an amphipathic protein fusion strategy. Nature Communications, 2015, 6, 6826.	12.8	30
114	Folding forms of Escherichia coli DmsD, a twin-arginine leader binding protein. Biochemical and Biophysical Research Communications, 2004, 315, 397-403.	2.1	29
115	Silver oxynitrate â€“ an efficacious compound for the prevention and eradication of dual-species biofilms. Biofouling, 2017, 33, 460-469.	2.2	29
116	Evaluation of transmembrane helix prediction methods using the recently defined NMR structures of the coat proteins from bacteriophages M13 and Pf1. BBA - Proteins and Proteomics, 1993, 1202, 161-168.	2.1	27
117	SMR proteins SugE and EmrE bind ligand with similar affinity and stoichiometry. Biochemical and Biophysical Research Communications, 2005, 335, 105-111.	2.1	27
118	DmsD, a Tat system specific chaperone, interacts with other general chaperones and proteins involved in the molybdenum cofactor biosynthesis. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1301-1309.	2.3	26
119	Genome Sequence of the Polychlorinated-Biphenyl Degrader Pseudomonas pseudoalcaligenes KF707. Journal of Bacteriology, 2012, 194, 4426-4427.	2.2	26
120	Cardiolipin synthase A colocalizes with cardiolipin and osmosensing transporter ProP at the poles of Escherichia coli cells. Molecular Microbiology, 2018, 107, 623-638.	2.5	26
121	Silver Antibacterial Synergism Activities with Eight Other Metal(loid)-Based Antimicrobials against Escherichia coli, Pseudomonas aeruginosa, and Staphylococcus aureus. Antibiotics, 2020, 9, 853.	3.7	26
122	Biomolecular composition of capping layer and stability of biogenic selenium nanoparticles synthesized by five bacterial species. Microbial Biotechnology, 2021, 14, 198-212.	4.2	26
123	Effect of aluminium and copper on biofilm development of Pseudomonas pseudoalcaligenes KF707 and P. fluorescens as a function of different media compositions. Metallomics, 2013, 5, 723.	2.4	25
124	Diversity and Evolution of Bacterial Twin Arginine Translocase Protein, TatC, Reveals a Protein Secretion System That Is Evolving to Fit Its Environmental Niche. PLoS ONE, 2013, 8, e78742.	2.5	23
125	Selenite Protection of Tellurite Toxicity Toward Escherichia coli. Frontiers in Molecular Biosciences, 2015, 2, 69.	3.5	23
126	Influence of Bacterial Physiology on Processing of Selenite, Biogenesis of Nanomaterials and Their Thermodynamic Stability. Molecules, 2019, 24, 2532.	3.8	23

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127	Specificity in the Susceptibilities of Escherichia coli, Pseudomonas aeruginosa and Staphylococcus aureus Clinical Isolates to Six Metal Antimicrobials. Antibiotics, 2019, 8, 51.	3.7	23
128	Differences in biofilm and planktonic cell mediated reduction of metalloid oxyanions. FEMS Microbiology Letters, 2004, 235, 357-362.	1.8	23
129	Strong poison revisited. Journal of Inorganic Biochemistry, 2007, 101, 1891-1893.	3.5	22
130	A histidine-kinasecheAgene ofPseudomonas pseudoalcaligensKF707 not only has a key role in chemotaxis but also affects biofilm formation and cell metabolism. Biofouling, 2011, 27, 33-46.	2.2	22
131	Few Conserved Amino Acids in the Small Multidrug Resistance Transporter EmrE Influence Drug Polyselectivity. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	22
132	The Response of Cupriavidus metallidurans CH34 to Cadmium Involves Inhibition of the Initiation of Biofilm Formation, Decrease in Intracellular c-di-GMP Levels, and a Novel Metal Regulated Phosphodiesterase. Frontiers in Microbiology, 2019, 10, 1499.	3.5	22
133	Multimeric forms of the small multidrug resistance protein EmrE in anionic detergent. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 526-535.	2.6	21
134	Efficacy and Safety of COVID-19 Vaccines: A Systematic Review and Meta-Analysis of Randomized Clinical Trials. SSRN Electronic Journal, 0, , .	0.4	20
135	Examination of EmrE conformational differences in various membrane mimetic environments. Biochemistry and Cell Biology, 2003, 81, 61-70.	2.0	18
136	Pseudomonas pseudoalcaligenes KF707 upon biofilm formation on a polystyrene surface acquire a strong antibiotic resistance with minor changes in their tolerance to metal cations and metalloid oxyanions. Archives of Microbiology, 2008, 190, 29-39.	2.2	18
137	Visualizing a multidrug resistance protein, EmrE, with major bacterial lipids using Brewster angle microscopy. Chemistry and Physics of Lipids, 2013, 167-168, 33-42.	3.2	18
138	â€˜Come into the foldâ€™: A comparative analysis of bacterial redox enzyme maturation protein members of the NarJ subfamily. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2971-2984.	2.6	18
139	Screening selectively harnessed environmental microbial communities for biodegradation of polycyclic aromatic hydrocarbons in moving bed biofilm reactors. Bioresource Technology, 2017, 228, 116-124.	9.6	18
140	Selenium and tellurium nanomaterials. ChemistrySelect, 2018, 3, .	1.5	18
141	Co-crystallization of antibacterials with inorganic salts: paving the way to activity enhancement. RSC Advances, 2020, 10, 2146-2149.	3.6	18
142	The Role of Cysteine Residues in Tellurite Resistance Mediated by the TehAB Determinant. Biochemical and Biophysical Research Communications, 2000, 277, 394-400.	2.1	17
143	Twin-arginine signal peptide attributes effective display of CD147 to filamentous phage. Applied Microbiology and Biotechnology, 2006, 69, 697-703.	3.6	17
144	Development of indole chemistry to label tryptophan residues in protein for determination of tryptophan surface accessibility. Protein Science, 2007, 16, 1204-1213.	7.6	17

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145	Identification of Trichloroethanol Visualized Proteins from Two-Dimensional Polyacrylamide Gels by Mass Spectrometry. Analytical Chemistry, 2006, 78, 2388-2396.	6.5	16
146	Comparing systemâ€specific chaperone interactions with their Tat dependent redox enzyme substrates. FEBS Letters, 2010, 584, 4553-4558.	2.8	16
147	Spectroscopic analysis of the intrinsic chromophores within small multidrug resistance protein SugE. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2233-2244.	2.6	16
148	Real-time imaging of lipid domains and distinct coexisting membrane protein clusters. Chemistry and Physics of Lipids, 2012, 165, 216-224.	3.2	16
149	The Hydrophobic Region of the DmsA Twin-Arginine Leader Peptide Determines Specificity with Chaperone DmsD. Biochemistry, 2013, 52, 7532-7541.	2.5	16
150	Surveillance and molecular characterization of non-tuberculous mycobacteria in a hospital water distribution system over a three-year period. Journal of Hospital Infection, 2014, 87, 59-62.	2.9	16
151	The Role of cheA Genes in Swarming and Swimming Motility of Pseudomonas pseudoalcaligenes KF707. Microbes and Environments, 2016, 31, 169-172.	1.6	16
152	Using a Chemical Genetic Screen to Enhance Our Understanding of the Antimicrobial Properties of Gallium against Escherichia coli. Genes, 2019, 10, 34.	2.4	16
153	Tunable photoluminescence properties of selenium nanoparticles: biogenic versus chemogenic synthesis. Nanophotonics, 2020, 9, 3615-3628.	6.0	16
154	Tyrosinate fluorescence lifetimes for oxytocin and vasopressin in receptor-simulating environments: Relationship to biological activity and 1H-NMR data. Biochemical and Biophysical Research Communications, 1990, 171, 996-1001.	2.1	14
155	Differential effects of a molybdopterin synthase sulfurylase (moeB) mutation onEscherichia colimolybdoenzyme maturation. Biochemistry and Cell Biology, 2002, 80, 435-443.	2.0	14
156	Effects of the twin-arginine translocase on the structure and antimicrobial susceptibility of Escherichia coli biofilms. Canadian Journal of Microbiology, 2005, 51, 671-683.	1.7	14
157	Towards understanding the Tat translocation mechanism through structural and biophysical studies of the amphipathic region of TatA from Escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2289-2296.	2.6	14
158	Tellurite and Selenite: how can these two oxyanions be chemically different yet so similar in the way they are transformed to their metal forms by bacteria?. Biological Research, 2022, 55, 17.	3.4	14
159	In vivo associations of Escherichia coli NarJ with a peptide of the first 50 residues of nitrate reductase catalytic subunit NarG. Canadian Journal of Microbiology, 2009, 55, 179-188.	1.7	13
160	Membrane composition influences the topology bias of bacterial integral membrane proteins. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 260-270.	2.6	13
161	Excited State Photoreaction between the Indole Side Chain of Tryptophan and Halocompounds Generates New Fluorophores and Unique Modifications. Photochemistry and Photobiology, 2014, 90, 1027-1033.	2.5	13
162	NarJ subfamily system specific chaperone diversity and evolution is directed by respiratory enzyme associations. BMC Evolutionary Biology, 2015, 15, 110.	3.2	13

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163	Relationship between craniocervical orientation and center of force of occlusion in adults. Cranio - Journal of Craniomandibular Practice, 2017, 35, 283-289.	1.4	13
164	Characterization of the growth inhibition phenotype of the kilAtelAB operon from IncPÎ± plasmid RK2Ter. Biochemistry and Cell Biology, 1994, 72, 333-342.	2.0	12
165	Alpha-periodicity analysis of small multidrug resistance (SMR) efflux transporters. Biochemistry and Cell Biology, 1998, 76, 791-797.	2.0	12
166	Phenotypic diversification in vivo: Pseudomonas aeruginosa gacSâ^' strains generate small colony variants in vivo that are distinct from in vitro variants. Microbiology (United Kingdom), 2010, 156, 3699-3709.	1.8	12
167	Expression and epitope tagging of the membrane anchor subunit (DmsC) of Escherichia coli dimethyl sulfoxide reductase. Protein Engineering, Design and Selection, 1997, 10, 285-290.	2.1	11
168	Interaction of Rhodococcus with Metals and Biotechnological Applications. Microbiology Monographs, 2019, , 333-357.	0.6	11
169	Spatial distributions of Pseudomonas fluorescens colony variants in mixed-culture biofilms. BMC Microbiology, 2013, 13, 175.	3.3	10
170	The cmbT gene encodes a novel major facilitator multidrug resistance transporter in Lactococcus lactis. Research in Microbiology, 2013, 164, 46-54.	2.1	10
171	Small Multidrug Resistance Efflux Pumps. , 2016, , 45-71.		10
172	On the role of a specific insert in acetate permeases (ActP) for tellurite uptake in bacteria: Functional and structural studies. Journal of Inorganic Biochemistry, 2016, 163, 103-109.	3.5	10
173	Fluorescent Protein Visualization Immediately After Gel Electrophoresis Using an In-Gel Trichloroethanol Photoreaction with Tryptophan. Methods in Molecular Biology, 2018, 1853, 179-190.	0.9	10
174	Multiple Compounds Secreted by Pseudomonas aeruginosa Increase the Tolerance of Staphylococcus aureus to the Antimicrobial Metals Copper and Silver. MSystems, 2020, 5, .	3.8	10
175	Metal-Resistance in Bacteria: Why Care?. Genes, 2020, 11, 1470.	2.4	10
176	A novel approach for harnessing biofilm communities in moving bed biofilm reactors for industrial wastewater treatment. AIMS Bioengineering, 2015, 2, 387-403.	1.1	10
177	Conformational analysis of thioredoxin using organoarsenical reagents as probes. A time-resolved fluorescence anisotropy and size exclusion chromatography study. Biochemistry and Cell Biology, 1989, 67, 25-33.	2.0	9
178	Spectroscopic analysis of small multidrug resistance protein EmrE in the presence of various quaternary cation compounds. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1318-1331.	2.6	9
179	Identification of proteinâ€“protein interactions between the TatB and TatC subunits of the twin-arginine translocase system and respiratory enzyme specific chaperones. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 767-775.	2.6	9
180	Is Silver the Ultimate Antimicrobial Bullet?. Antibiotics, 2018, 7, 112.	3.7	9

#	Article	IF	Citations
181	Microbial-Based Bioremediation of Selenium and Tellurium Compounds. , 0, , .		9
182	Proflavine and zinc chloride â€œteam chemistryâ€• combining antibacterial agents via solid-state interaction. CrystEngComm, 2021, 23, 4494-4499.	2.6	9
183	Evaluating the Metal Tolerance Capacity of Microbial Communities Isolated from Alberta Oil Sands Process Water. PLoS ONE, 2016, 11, e0148682.	2.5	9
184	Differential Actions of a Mammalian Gonadotropin-Releasing Hormone Antagonist on Gonadotropin-II and Growth Hormone Release in Goldfish, <i>Carassius auratus</i>. Neuroendocrinology, 1994, 59, 561-571.	2.5	8
185	Structural and functional comparison of hexahistidine tagged and untagged forms of small multidrug resistance protein, EmrE. Biochemistry and Biophysics Reports, 2015, 1, 22-32.	1.3	7
186	Assembly pathway of a bacterial complex iron sulfur molybdoenzyme. Biomolecular Concepts, 2017, 8, 155-167.	2.2	7
187	Biphenyl Modulates the Expression and Function of Respiratory Oxidases in the Polychlorinated-Biphenyls Degrader Pseudomonas pseudoalcaligenes KF707. Frontiers in Microbiology, 2017, 8, 1223.	3.5	7
188	Antimicrobial activity of supramolecular salts of gallium(III) and proflavine and the intriguing case of a trioxalate complex. Scientific Reports, 2022, 12, 3673.	3.3	7
189	A novel procedure for separating small peptides on polyacrylamide gels. International Journal of Peptide Research and Therapeutics, 2003, 10, 127-133.	0.1	6
190	Thermodynamic Characterization of the DmsD Binding Site for the DmsA Twin-Arginine Motif. Biochemistry, 2015, 54, 2040-2051.	2.5	6
191	A comparison of the response of twoBurkholderia fungorumstrains grown as planktonic cells versus biofilm to dibenzothiophene and select polycyclic aromatic hydrocarbons. Canadian Journal of Microbiology, 2016, 62, 851-860.	1.7	6
192	Untargeted Metabolomics Investigation on Selenite Reduction to Elemental Selenium by Bacillus mycoides SeITE01. Frontiers in Microbiology, 2021, 12, 711000.	3.5	6
193	Assessing Microbial Monitoring Methods for Challenging Environmental Strains and Cultures. Microbiology Research, 2022, 13, 235-257.	1.9	6
194	A new gonadotropin-releasing hormone (GnRH) superagonist in goldfish: influence of dialkyl-d-homoarginine at position 6 on gonadotropin-II and growth hormone release. Regulatory Peptides, 1994, 53, 1-15.	1.9	5
195	Investigating Proteinâ€“Protein Interactions by Far-Westerns. Advances in Biochemical Engineering/Biotechnology, 2008, 110, 195-214.	1.1	5
196	Influence of GTP on system specific chaperone â€“ Twin arginine signal peptide interaction. Biochemical and Biophysical Research Communications, 2015, 465, 753-757.	2.1	5
197	Primary Metabolism and Medium-Chain Fatty Acid Alterations Precede Long-Chain Fatty Acid Changes Impacting Neutral Lipid Metabolism in Response to an Anticancer Lysophosphatidylcholine Analogue in Yeast. Journal of Proteome Research, 2017, 16, 3741-3752.	3.7	5
198	Biofilms and Microbiologically Influenced Corrosion in the Petroleum Industry. ACS Symposium Series, 2019, , 187-203.	0.5	5

#	Article	IF	Citations
199	Prevalence of Multidrug Resistance Efflux Pumps (MDREPs) in Environmental Communities. , 2019, , 545-557.		5
200	Detection of naphthenic acid uptake into root and shoot tissues indicates a direct role for plants in the remediation of oil sands process-affected water. Science of the Total Environment, 2021, 795, 148857.	8.0	5
201	Unusual pairing between assistants: Interaction of the twin-arginine system-specific chaperone DmsD with the chaperonin GroEL. Biochemical and Biophysical Research Communications, 2015, 456, 841-846.	2.1	4
202	The Potential of Metals in Combating Bacterial Pathogens. , 2018, , 129-150.		4
203	Alpha-periodicity analysis of small multidrug resistance (SMR) efflux transporters. Biochemistry and Cell Biology, 1998, 76, 791-797.	2.0	4
204	Synergism inhibition and eradication activity of silver nitrate/potassium tellurite combination against Pseudomonas aeruginosa biofilm. Journal of Antimicrobial Chemotherapy, 2022, , .	3.0	4
205	Using a chemical genetic screen to enhance our understanding of the antimicrobial properties of copper. Metallomics, 2022, 14, .	2.4	4
206	Long-lived fluorescence lifetime from tyrosine in a peptide derived from S-100b. Biochimica Et Biophysica Acta - General Subjects, 1992, 1117, 265-270.	2.4	3
207	Respiration and ecological niche influence bacterial membrane lipid compositions. Environmental Microbiology, 2015, 17, 1777-1793.	3.8	3
208	Cultivation of Environmental Bacterial Communities as Multispecies Biofilms. Springer Protocols, 2015, , 249-268.	0.3	3
209	Biogenic SeNPs from Bacillus mycoides SelTE01 and Stenotrophomonas maltophilia SelTE02: Characterization with reference to their associated organic coating. AIP Conference Proceedings, 2017, , .	0.4	3
210	Comparison of Confirmed COVID-19 with SARS and MERS Cases - Clinical Characteristics, Laboratory Findings, Radiographic Signs and Outcomes: A Systematic Review and Meta-Analysis. SSRN Electronic Journal, 0, , .	0.4	3
211	Unique Photobleaching Phenomena of the Twin-Arginine Translocase Respiratory Enzyme Chaperone DmsD. The Open Biochemistry Journal, 2014, 8, 1-11.	0.5	3
212	Editorial: Nanomicrobiology: Emerging Trends in Microbial Synthesis of Nanomaterials and Their Applications. Frontiers in Microbiology, 2021, 12, 751693.	3.5	3
213	Protocols for Harvesting a Microbial Community Directly as a Biofilm for the Remediation of Oil Sands Process Water. Springer Protocols, 2015, , 131-152.	0.3	2
214	Principal component analysis of the relationship between pelvic inclination and lumbar lordosis. Scoliosis and Spinal Disorders, 2019, 14, 1.	2.3	2
215	Creation of Universal Primers Targeting Nonconserved, Horizontally Mobile Genes: Lessons and Considerations. Applied and Environmental Microbiology, 2021, 87, .	3.1	2
216	Biofilms. American Scientist, 2005, 93, 508.	0.1	2

#	Article	IF	Citations
217	Biofilm Survival Strategies in Polluted Environments. , 2016, , 43-56.		2
218	Transcriptomic Analysis of the Dual Response of Rhodococcus aetherivorans BCP1 to Inorganic Arsenic Oxyanions. Applied and Environmental Microbiology, 2022, 88, e0220921.	3.1	2
219	Bacterial Production of Metal(loid) Nanostructures. Advances in Environmental Microbiology, 2022, , 167-194.	0.3	2
220	Enhanced translocation of recombinant proteins via the Tat pathway with chaperones in Escherichia coli. Journal of the Taiwan Institute of Chemical Engineers, 2010, 41, 540-546.	5.3	1
221	Influence of quaternary cation compound on the size of the Escherichia coli small multidrug resistance protein, EmrE. Biochemistry and Biophysics Reports, 2018, 13, 129-140.	1.3	1
222	Phylogenetic characterization of the energy taxis receptor Aer in Pseudomonas and phenotypic characterization in Pseudomonas pseudoalcaligenes KF707. Microbiology (United Kingdom), 2019, 165, 1331-1344.	1.8	1
223	Some facts about the respiratory enzymes of Pseudomonas pseudoalcaligenes KF707 recently renamed as Pseudomonas furukawaii sp. nov., type strain KF707. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 3066-3067.	1.7	1
224	Global Comparison of Influenza Type A and B with COVID-19: A Systematic Review and Meta-Analysis on Clinical, Laboratory, and Radiographic Findings. SSRN Electronic Journal, 0, , .	0.4	1
225	Enhanced Exoelectrogenic Activity of Cupriavidus metallidurans in Bioelectrochemical Systems through the Expression of a Constitutively Active Diguanylate Cyclase. Environments - MDPI, 2022, 9, 80.	3.3	1
226	Structural proteomics of the cell envelope of Gram-negative bacteria. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1697.	2.6	0
227	Real-time imaging of the lateral architecture of lipids and proteins in Escherichia coli membranes. Chemistry and Physics of Lipids, 2010, 163, S45.	3.2	0
228	A Survey for Small Multidrug Resistance Protein Multimerization in the Presence of Ligand Using Sds-Page Analysis. Biophysical Journal, 2010, 98, 35a.	0.5	0
229	Escherichia Coli Redox Enzyme Maturation Proteins, TorD and DmsD Interact with GTP as Shown by Native Page Assays. Biophysical Journal, 2010, 98, 243a.	0.5	0
230	Structural Investigations of an Amphipathic Region of the Twin-Arginine Translocase Tata Subunit. Biophysical Journal, 2010, 98, 625a.	0.5	0
231	Thermodynamic and Hydrodynamic Characterization of the Interaction Between DmsD and the DmsA Twin-Arginine Leader Peptide. Biophysical Journal, 2010, 98, 243a.	0.5	0
232	Different Purification Approaches for the Integral Membrane Protein EmrE Leads to Biochemical and Biophysical Differences in the Protein. Biophysical Journal, 2012, 102, 247a.	0.5	0
233	Analysis of Integral Membrane Inter and Intra Contacts in Model Multidrug Transporter EmrE using a Bacterial Two-Hybrid Method. Biophysical Journal, 2013, 104, 66a.	0.5	0
234	Identification of Protein-Protein Interactions Between the TatB and TatC Subunits of the Twin-Arginine Translocase System and the Redox Enzyme Maturation Protein Chaperones. Biophysical Journal, 2014, 106, 669a.	0.5	0

#	Article	IF	Citations
235	Biogenesis of Escherichia coli DMSO Reductase: A Network of Participants for Protein Folding and Complex Enzyme Maturation. Advances in Experimental Medicine and Biology, 2015, 883, 215-234.	1.6	0
236	Se nanoparticle manufacturing for medical applications. , 2021, , 287-322.		0
237	6. Selenium and tellurium nanomaterials. , 2018, , 313-338.		0
238	A novel procedure for separating small peptides on polyacrylamide gels. International Journal of Peptide Research and Therapeutics, 2003, 10, 127-133.	0.1	0